**Covidien Surgical Solutions Group**
**Aeration of 1X Combo Cycle**
**Covidien: North Haven, CT**
**Chambers A & B**

## 1. Objective:

This protocol has been designed to provide the documented program by which the aeration of Covidien Surgical Solutions Group product, processed in a Surgical Solutions Group Combo cycle in Chambers A or B at Covidien: North Haven, CT 100% EtO facility will be validated for aeration after one time sterilization. This protocol will satisfy EN/ISO10993-7:2008 and Covidien policy GS10004946.

## 2. Scope:

2.1 This document applies to aeration of product processed through one Combo (Cycle#310) sterilization process at Covidien: 60 Middletown Ave, North Haven, CT for Chambers A and B. The Covidien North Haven, Chambers A and B process with a sterilant gas of 100% EtO. The facility utilizes primary aeration rooms connected to the chamber which product is automatically unloaded into after cycle completion. The facility also utilizes two ancillary secondary aeration rooms (Suture and Polymer) which product can be placed into following primary aeration in order to aerate further or be used as holding until ready to move out of the sterilization facility.

2.1.1 Combo product Families:

2.1.1.1 TA: TA, Roticulator, RALC
2.1.1.2 Purstring: Purstring, Mini Harvest, Laprofan
2.1.1.3 LDS: LDS
2.1.1.4 GIA: GIA, Endo GIA, MF GIA, EGIA Ultra, EGIA Radial Reload, Multifire Endo Hernia, Reliamax Reload
2.1.1.5 Surgigrip: Springgrip, Stratis Non-abs, Tritis Non-abs
2.1.1.6 EEA: EEA, CEEA, TAID, PPCEEA, Hemorrhoid Stapler
2.1.1.7 Non-absorbable suture: Dacron, Braided Nylon, Mononylon, Silk, Steel, Polyester, Polyproylene, Polypro Mesh, Cotton Tape, Novafil, Small Suture packages with pledgets, VLOC-PBT
2.1.1.8 Skin Staplers: SM, Signet, Royal, Concorde, Appose, Extractor
2.1.1.9 Surgiclip: Surgiclip, Endo Clip, Myocclude, Open Clip, Protack, Versaflex, Chemosite Tunneler
2.1.1.10 Non-absorbable Reels: Arthrosew SULU, Endostitch SULU (Nylon, Silk, Dacron)
2.1.1.11 Non-absorbable Surgiwip: Dacron
2.1.1.12 Absorbable Suture: Polysorb, Biosyn, Caprosyn, Dexon, Maxon, VLOC (Single, Multi and Widepack), Reels / Endostitch

2.1.1.13 Absorbable Mechanical: Poly DLU's, Poly CS, Poly GIA, Poly Clip, Meniscal, Laproclip, Suture Anchor, Absorbatack, Bio-Stratis, Bio-Tritis, Reliatack Reload
2.1.1.14 Absorbable Surgitie/wip: Polysorb
2.1.1.15 Hybrid: Reinforced Reload

2.2 The following are the responsibilities associated with the protocol:

2.2.1 Protocol –Technical Services
2.2.2 Protocol Approval – Technical Services, North Haven QA, North Haven Sterilizer
2.2.3 Samples – Technical Services
2.2.4 Sample Placement – Technical Services
2.2.5 Sample Retrieval – Technical Services & North Haven Sterilizer
2.2.6 Testing / Evaluation – Technical Services
2.2.7 Cycle Scheduling and Processing – North Haven Sterilizer
2.2.8 Final Report – Technical Services
2.2.9 Validation Approval – Technical Services, North Haven QA

2.3 The validation will conform to the following standards:

2.3.1 ANSI/AAMI/ENISO 10993-7:2008 "Biological Evaluation of Medical Devices-Part 7: Ethylene Oxide Sterilization Residuals"
2.3.2 GS10004946 "Covidien Corporate Procedure: Ethylene Oxide Residual Control Policy"

2.4 This protocol will address:

2.4.1 1X Sterilization, aeration processing, and residual testing: (absorbable & non-absorbable product)
2.4.2 1X Aeration Qualification: (absorbable & non-absorbable product)

## 3. Production Cycle:

3.1 Parameters: Product is stored in a controlled environment (Staging Room) prior to chamber loading.

| Phase | Minimum Spec | Maximum Spec | Unit |
|---|---|---|---|
| **Preconditioning** | | | |
| Preconditioning Time | N/A | N/A | Hr:Min |
| Load time | 5 | 60 | Minutes |
| | | | |
| **Conditioning** | | | |
| Vacuum #1 | 1.5 | 2.5 | inHgA |
| Vacuum #1 Elapsed Time | 15 | 60 | Minutes |

| Phase | Minimum Spec | Maximum Spec | Unit |
|---|---|---|---|
| Nitrogen Inject | 11.5 | 12.5 | inHgA |
| Nitrogen Inject Elapsed Time | 5 | 30 | Minutes |
| Vacuum #2 | 1.5 | 2.5 | inHgA |
| Vacuum #2 Elapsed Time | 5 | 30 | Minutes |
| Time to Condition | 30 | 180 | Minutes |
| Chamber Temperature | 80 | 110 | °F |
| Chamber Moisture | 10.0 | 39.7 | mg/L |
| Conditioning Dwell Time | 90 | 180 | Minutes |
| | | | |
| **Charge** | | | |
| Initial Vacuum | 1.5 | 2.5 | inHgA |
| Nitrogen Dilution Pressure | 4.5 | 5.5 | inHgA |
| EtO Inject Pressure | 13.3 | 14.3 | inHgA |
| EtO Inject Elapsed Time | 5 | 60 | Minutes |
| EtO Gas Weight Used | T.B.D. | T.B.D. | lb |
| Nitrogen Blanket Pressure | 25.5 | 27 | inHgA |
| Nitrogen Inject Elapsed Time | 5 | 60 | Minutes |
| | | | |
| **Exposure** | | | |
| Chamber Pressure | 25.5 | 27 | inHgA |
| Chamber Temperature | 88 | 110 | °F |
| Exposure Time | 10:30 | 11:00 | Hr:Min |
| Gas Concentration | 300 | 525 | mg/L |
| | | | |
| **Exhaust** | | | |
| Vacuum | 4.5 | 5.5 | inHgA |
| Vacuum Elapsed Time | 15 | 90 | Minutes |
| | | | |
| **Nitrogen Wash** | | | |
| Nitrogen Inject Pressure | 28 | 29 | inHgA |
| Nitrogen Inject Elapsed Time | 15 | 45 | Minutes |
| Vacuum | 1.5 | 2.5 | inHgA |
| Vacuum Elapsed Time | 15 | 45 | Minutes |
| Number of washes | 1 | 1 | each |
| | | | |
| **Air Wash** | | | |
| Dry Air Inject Pressure | 28 | 30 | inHgA |

| Phase | Minimum Spec | Maximum Spec | Unit |
|---|---|---|---|
| Dry Air Inject Elapsed Time | 15 | 45 | Minutes |
| Vacuum | 1.5 | 2.5 | inHgA |
| Vacuum Elapsed Time | 15 | 45 | Minutes |
| Number of washes | 7 | 7 | each |
| | | | |
| **Primary Aeration** | | | |
| Elapsed Time | 12:00 | 48:00 | Hr:Min |
| Room Temperature | 95 | 115 | °F |
| | | | |
| Maximum chamber temperature | N/A | 110 | °F |

Loads may be removed from primary aeration after a minimum 12 hours elapsed time is met. After removal from primary aeration certain loads must be immediately placed into secondary aeration to further aerate for the minimum time required; dependent on product.

The Combo sterilization cycle is capable of processing both absorbable and non-absorbable products. Non-absorbable products can be released from sterilization after the minimum 12 hour primary aeration period. Absorbable products however retain higher levels of EtO post sterilization, and thus are required to further aerate in a secondary aeration room.

## 4. 1X Sterilization, Aeration Processing & Residual Testing: (Non-Absorbable Product)

4.1 Non-absorbable Tritis or Stratis Delrin material and Surgitie Nylon 6/6 material were found to be the non-absorbable master aeration product in STE09-037, and will be evaluated. Additionally V-Loc PBT and V-Loc PBT Reload will be evaluated. Multiple pieces of each product from an individual lot will be placed in each of four boxes. Box one will be labeled 1X-0Hr, box two will be labeled 1X-6Hr, box three will be labeled 1X-12Hr, and box four will be labeled Blank.

4.2 The 1X boxes will be processed through 1 Combo (Cycle #310) cycle with the maximum exposure time of 11 hours, the upper level EtO gas inject pressure and gas concentration, and a full 6-pallet chamber load. The Blank will remain non-sterile. The 1X boxes will be removed, after completion of the cycle, from primary aeration at the corresponding time points (as close to the specified time as possible) according to the time listed on the box. i.e. 1X-0Hr box will be removed after 0 hours primary aeration, 1X-6Hr box will be removed after 6 hours primary aeration, & 1X-12Hr box will be removed after 12 hours primary aeration. All dates/times during sample removal and aeration will be recorded so that traceability of each residual sample is documented. Samples will be frozen after the designated aeration time, and samples will be forwarded frozen, once processing is complete, to the Surgical Solutions Group Chemistry Lab in North Haven where all the boxes will be stored frozen until testing begins.

4.3 Sections 4.1 and 4.2 will be repeated with an additional two separate lots of product for a total of three cycle groups: Lot "A", Lot "B", & Lot "C". All lots will be processed in separate cycles, for a total of 3 cycles (1 cycle per lot).

4.4 The implantable and metal materials of each device will be tested exhaustively for EtO and EtCH according to CHEM-033 and ISO10993-7 for all 1X and blank samples. The tissue contacting portion of each device will be extracted aqueously and tested for EtO and EtCH by simulated use according to CHEM-029 and ISO10993-7 using an extraction time of two hours at 37°C for the 1X and Blank samples. Non tissue contacting materials will not be tested.

## 5. 1X Aeration Qualification: (Non-Absorbable Product)

5.1 An EtO Dissipation curve will be created from the three time points for all three lots of non-absorbable master aeration product tested for the 1X samples. EtCH will be evaluated for acceptance at the longest aeration time point tested.

5.2 The dissipation curve will be evaluated to determine the time required to aerate each non-absorbable product to the specifications that have been proven acceptable following irritation studies performed in STE09-037 and ISO10993-7:2008.

5.2.1 Non-absorbable Tritis/Stratis Delrin Material:
EtO: $\leq$4mg with a TCL of $\leq$115μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

5.2.2 Surgitie Nylon 6/6 Material:
EtO: $\leq$4mg with a TCL of $\leq$18.3μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

5.2.3 V-Loc PBT:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

5.2.4 V-Loc PBT Reload:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

5.3 The process will be found acceptable if the average of the time determined in section 5.2 with 2 standard deviations is less than or equal to the 12 hour specification for the Combo cycle. If the time is exceeded, then either additional biological testing or additional aeration time will be required.

5.4 The materials from the "Blank" sample must show "No Response" when tested, thus giving a result that starts with "<".

## 6. 1X Sterilization, Aeration Processing & Residual Testing: (Absorbable Product)

6.1 In order to determine and validate the minimum required time necessary for each absorbable product to aerate in secondary aeration, the worst case (hardest to aerate) reorder code from each absorbable product family will be chosen. The following procedure will then be completed for each of the selected worst case reorder codes.

Acceptance of absorbable product processed through a Combo cycle will only be validated for the product families tested; if additional absorbable product lines are to be processed in the Covidien: North Haven, CT 100% EtO Combo cycle an additional aeration study must be completed to determine the necessary aeration time required by said products. The worst case to aerate reorder codes from the absorbable product families with rationales are as follows:

6.1.1 V-Loc 90: VLOCM0135 (Largest size = worst case aeration)
6.1.2 V-Loc 180: VLOCL0536 (Largest size = worst case aeration)
6.1.3 V-Loc 180 Reload: VLOCA008L (Largest size = worst case aeration)
6.1.4 Maxon: 88866262971 (Largest size = worst case aeration)
6.1.5 Polysorb: L43 (Greatest Volume = worst case aeration)
6.1.6 Absorbatack: ABSTACK30 (Most clips per device = worst case aeration)
6.1.7 Laproclip: 8886848812 (Most clips per device = worst case aeration)
6.1.8 Poly Roticulator: 013601 (Largest clip = worst case aeration)
6.1.9 Meniscal Stapler: 160510 (All instruments equivalent for aeration)
6.1.10 Suture Anchor: 273026 (Largest size = worst case aeration)
6.1.11 Poly GIA: 030775 (All instruments equivalent for aeration)
6.1.12 SPSP 55: 013507L (Largest size = worst case aeration)
6.1.13 Reinforced Reload: EGIATRS60AMT (Largest size = worst case aeration)
6.1.14 Reliatack: RELTACK3X10 (Most tacks per device = worst case aeration)

6.2 A sufficient number of samples (as advised by the Chemistry department) from an individual lot, for each of the above products will be placed into each of five boxes. Box one will be labeled 1X-0Hr, box two will be labeled 1X-24Hr, box three will be labeled 1X-48Hr, box four will be labeled 1X-72Hr, and box five will be labeled Blank.

6.3 The 1X boxes will be processed through 1 Combo (Cycle #310) cycle with the maximum exposure time of 11 hours, the upper level EtO gas inject pressure and gas concentration, and a full 6-pallet chamber load. The Blank will remain non-sterile. The 1X boxes will be removed, after cycle completion, from primary aeration at 12 hours. After removal from primary aeration boxes will be placed into either the Polymer Secondary Aeration Room (absorbable mechanical product), or the Suture Secondary Aeration Room (absorbable suture product). Boxes will be removed from Secondary Aeration at the corresponding time points (as close to the specified time as possible) according to the time listed on the box. i.e. 1X-0Hr box will be removed after 0 hours secondary aeration, 1X-24Hr box will be removed after 24 hours secondary aeration, 1X-48Hr box will be removed after 48 hours secondary aeration, & 1X-72Hr box will be removed after 72 hours secondary aeration. All dates/times during sample removal and aeration will be recorded so that traceability of each residual sample is documented. Samples will be frozen after the designated aeration time, and samples will be forwarded frozen, once processing is complete, to the Surgical

Solutions Group Chemistry Lab in North Haven where all the boxes will be stored frozen until testing begins.

6.4 Sections 6.2 and 6.3 will be repeated with an additional two separate lots of each product for a total of three cycle groups: Lot "A", Lot "B", & Lot "C". All lots will be processed in separate cycles, for a total of 3 cycles (1 cycle per lot).

6.5 The implantable and metal materials of each device will be tested exhaustively for EtO and EtCH according to CHEM-033 and ISO10993-7 for all 1X and blank samples. The tissue contacting portion of each device will be extracted aqueously and tested for EtO and EtCH by simulated use according to CHEM-029 and ISO10993-7 using an extraction time of two hours at 37°C for the 1X and Blank samples. Non tissue contacting materials will not be tested.

## 7. 1X Aeration Qualification: (Absorbable Product)

7.1 An EtO Dissipation curve will be created from the four time points for all three lots of absorbable aeration product tested for the 1X samples. EtCH will be evaluated for acceptance at the longest aeration time point tested.

7.2 The dissipation curve will be evaluated to determine the minimum Secondary Aeration time required to aerate each absorbable product to the specifications stated by ISO10993-7:2008 and irritation results performed on elevated residual levels of the material during studies P-ETO12 and NAMSA T1251_800 GLP Report.

7.2.1 V-Loc 90:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

7.2.2 V-Loc 180:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

7.2.3 V-Loc 180 Reload:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

7.2.4 Maxon:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

7.2.5 Polysorb:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

7.2.6 Absorbatack:
EtO: $\leq$4mg with a TCL of $\leq$98.3μg/cm²

EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.7 Laproclip:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.8 Poly Roticulator:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.9 Meniscal Stapler:
EtO: ≤4mg with a TCL of ≤17.6μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.10 Suture Anchor:
EtO: ≤4mg with a TCL of ≤18.7μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.11 Poly GIA:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.12 SPSP 55:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.13 Reinforced Reload:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.2.14 Reliatack:
EtO: ≤4mg with a TCL of ≤98.3μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

7.3 The average of the time determined in section 7.2 with 2 standard deviations will be used as the minimum time specification required during Secondary Aeration in order to aerate absorbable product processed through the Combo cycle.

7.4 The materials from the "Blank" sample must show "No Response" when tested, thus giving a result that starts with "<".

## 8. Documentation:

8.1 The final report will be written, approved and the original copy will be stored in the Surgical Solutions Group Technical Services Library as a permanent document.

8.1.1 The final report will contain all cycle run records and all aeration data.

8.1.2 The report will prove acceptance of aeration for product processed in the Combo cycle one time sterilized at the Covidien: North Haven, CT 100% EtO sterilization facility.

**9. Approval:**

Written By:_____ Date: 02-06-15
Biological Engineer, Technical Services

Approved By:_____ Date: 2/6/15
Senior Biological Engineer, Technical Services

Approved By:_____ Date: 2/6/15
Director, Technical Services North Haven

Approved By:_____ Date: 2-6-15
Sr. Director, Technical Services North Haven

Approved By:_____ Date: 2-6-15
Sterilization, North Haven

Approved By:_____ Date: FEB 9, 2015
Quality Assurance, North Haven

**Covidien Surgical Solutions Group**
**Aeration of 1X Combo Cycle**
**Validation Final Report**
**Covidien: North Haven, CT**
**Chambers A & B**

The sterilization process for the Parametric release of the Surgical Solutions Combo cycle in Chambers A & B for 1X cycle processing has been validated for a maximum of 6 pallets and a minimum of ½ pallet in the Covidien: North Haven, CT 100% EO facility in accordance to the parameters and qualifications stated in protocol STE14-028.

Written By:_____ Date: Apr. 6, 2015
Biological Engineer, Biological Services

Approved By: Nicole Grunt Date: April 9, 2015
Senior Biological Engineer, Biological Services

Approved By: Mike Ball Date: APR 10, 2015
Director, Technical Services North Haven

Approved By:_____ Date:_____
Regulatory Affairs

Approved By:_____ Date: APRIL 23, 2015
Quality Assurance, North Haven

**Covidien Surgical Solutions Group**
**Aeration of 1X Combo Cycle**
**Validation Final Report**
**Covidien: North Haven, CT**
**Chambers A & B**

The sterilization process for the Parametric release of the Surgical Solutions Combo cycle in Chambers A & B for 1X cycle processing has been validated for a maximum of 6 pallets and a minimum of ½ pallet in the Covidien: North Haven, CT 100% EO facility in accordance to the parameters and qualifications stated in protocol STE14-028.

Written By:_____ Date: Apr. 6, 2015
Biological Engineer, Biological Services

Approved By:_____ Date: April 9, 2015
Senior Biological Engineer, Biological Services

Approved By:_____ Date: APR 10, 2015
Director, Technical Services North Haven

Approved By:_____ Date: April 22, 2015
Regulatory Affairs

Approved By:_____ Date:_____
Quality Assurance, North Haven

# Summary:

Aeration Qualification:
The aeration of the products that are processed in the Covidien Surgical Solutions Group Combo cycle in Covidien: North Haven Chambers A and B is acceptable for "1X" sterilization utilizing a minimum primary aeration time of 12 hours. After completion of primary aeration loads will undergo additional aeration in either the "Suture Secondary Aeration Room" or "Polymer Secondary Aeration Room" for the minimum time required, as specified by product, presented below. The products qualified during this study are as follows:

- Non-Absorbable product (Based on acceptance of master aeration product):
  - Non-absorbable Tritis / Stratis Delrin
  - Surgitie Nylon
- V-Loc PBT
- V-Loc PBT Reload
- V-Loc 90
- V-Loc 180
- V-Loc 180 Reload
- Maxon
- Polysorb
- Absorbatack
- Laproclip
- Poly Roticulator
- Meniscal Stapler
- Suture Anchor
- Poly GIA
- SPSP 55
- Reinforced Reload
- Reliatack Reload

## 1X Aeration Qualification: (Non-Absorbable Product)

Non-absorbable Tritis/Stratis Delrin material, Surgitie Nylon 6/6 material, V-Loc PBT, and V-Loc PBT Reload were the non-absorbable products assessed in study STE14-028. If additional non-absorbable product families are to be processed in the Covidien: North Haven, CT 100% EO Combo cycle an additional evaluation must be completed to assess the necessary aeration time required by said products. The non-absorbable product tested in this report was evaluated to determine the minimum combined aeration time (Primary Aeration + Suture Secondary Aeration) required to reduce EtO and EtCH residual content to within the guidelines of EN/ISO10993-7:2008.
Combined primary and suture secondary minimum aeration times for non-absorbable product is justified based on the suture secondary aeration room temperature exceeding

that of primary aeration. The lower temperature primary aeration room was used to evaluate the degassing characteristics of non-absorbable product in this study.

Adequate test sample amounts (as advised by North Haven: Chemistry Department) of each product from an individual lot were placed in each of four boxes. Box one was labeled "1X-0Hr", box two was labeled "1X-6Hr", box three was labeled "1X-12Hr", and box four was labeled "Blank". This was repeated two additional times with different lots for a total of 12 boxes.

All boxes, with the exception of the "Blanks" which remained non-sterile, were processed through one clinical Combo cycle with the maximum exposure time of 11 hours, the upper level EtO gas inject pressure and gas concentration, and a full 6-pallet chamber load. Cycle#311 was used in place of routine clinical cycle#310. Cycle#311 uses the same cycle parameters as cycle#310, with the exception of containing the maximum 11 hour exposure time and upper specification gas injection pressure / gas concentration. The "1X" boxes containing the non-absorbable test product from lot "A" were processed in cycle ZA500129. The "1X" boxes containing the non-absorbable test product from lot "B" were processed in cycle ZB500130. The "1X" boxes containing the non-absorbable test product from lot "C" were processed in cycle ZA500136. The 1X boxes were removed, after completion of the cycle, from primary aeration at the appropriate aeration times of 0Hr, 6Hr, and 12Hr. A summary matrix detailing when the primary aeration pull times and dates occurred can be found in the residual summary section of the final report. All boxes were immediately frozen after the designated primary aeration period. Boxes were forwarded frozen to the Chemistry Lab in North Haven where they remained frozen until testing began.

The implantable materials of each device were tested exhaustively for EtO and EtCH according to CHEM-033 and ISO10993-7. The tissue contacting portions of each device were extracted aqueously and tested for EtO and EtCH by simulated use according to CHEM-029 and ISO10993-7. The boiling point of EtCH is 128.8°C; because the temperature during aeration is less than 128.8°C the amount of EtCH held on a device will be the same regardless of aeration time, therefore only the 12 hour samples were tested for EtCH.

Degassing curve calculations were completed using first order kinetics.
Results will be acceptable at the below specifications as stated by ISO10993-7:2008 and irritation studies performed in STE09-037.

Non-absorbable Tritis/Stratis Delrin Material:
EtO: $\leq$4mg with a TCL of $\leq$115μg/cm$^2$
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm$^2$

Surgitie Nylon 6/6 Material:
EtO: $\leq$4mg with a TCL of $\leq$18.3μg/cm$^2$
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm$^2$

V-Loc PBT:
EtO: ≤4mg with a TCL of ≤10µg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

V-Loc PBT Reload:
EtO: ≤4mg with a TCL of ≤10µg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

**EtO Test Results:**

**Sample Set "A", RUN# ZA500129**

| EtO (mg) | | | | | | |
|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | | | | | |
| | **0** | **6** | **12** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **Stratis / 200001-00 / 0928900102-A** | | | | **Specification = ≤ 4 mg** | | |
| Delrin | 0.762 | 0.508 | 0.277 | -0.08433 | -0.23831 | -19.26542 |
| *Total Component mg EtO* | 0.762 | 0.508 | 0.277 | -0.08433 | -0.23831 | -19.26542 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4G0397X** | | | | **Specification = ≤ 4 mg** | | |
| Suture (Surgidac) | 0.066 | 0.03 | 0.006 | -0.19982 | -2.58127 | -19.85524 |
| Plastic (Nylon Material) | 0.529 | 0.362 | 0.299 | -0.04755 | -0.66812 | -43.20961 |
| Metal | 0.033 | <0.026 | <0.036 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.628 | 0.418 | 0.341 | -0.05089 | -0.49913 | -37.05027 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400017EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.101 | 0.056 | 0.04 | -0.07719 | -2.33485 | -48.20963 |
| *Total Component mg EtO* | 0.101 | 0.056 | 0.04 | -0.07719 | -2.33485 | -48.20963 |
| | | | | | | |
| **V-Loc PBT / VLOCN0437 / 1436400011EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.359 | 0.223 | 0.177 | -0.05893 | -1.06529 | -41.60085 |
| *Total Component mg EtO* | 0.359 | 0.223 | 0.177 | -0.05893 | -1.06529 | -41.60085 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO TCL Test Results:**

**Sample Set "A", RUN# ZA500129**

| EtO TCL (µg/cm²) | | |
|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | |

| | 0 | 6 | 12 | Slope | Intercept | Time to Spec (Hr) |
|---|---|---|---|---|---|---|
| **Stratis / 200001-00 / 0928900102-A** | | | | **Specification = ≤ 115 µg/cm2** | | |
| Delrin | 68.8 | 42.3 | 26.8 | -0.07857 | 4.22620 | -6.60245 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4G0397X** | | | | **Specification = ≤ 18.3 µg/cm2** | | |
| Suture (Surgidac) | 0.284 | 0.128 | 0.024 | -0.20591 | -1.11261 | -19.52071 |
| Plastic (Nylon Material) | 13.8 | 9.55 | 7.97 | -0.04575 | 2.59346 | -6.85144 |
| Metal | 0.478 | <0.388 | <0.529 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400017EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 34.1 | 18.8 | 14.3 | -0.07242 | 3.47566 | 16.19821 |
| | | | | | | |
| **V-Loc PBT / VLOCN0437 / 1436400011EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 33.6 | 21.2 | 16.5 | -0.05926 | 3.47955 | 19.85968 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO Test Results:**
**Sample Set "B", RUN# ZB500130**

| EtO (mg) | | | | | | |
|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | | | | | |
| | **0** | **6** | **12** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **Stratis / 200001-00 / 0928900102-B** | | | | **Specification = ≤ 4 mg** | | |
| Delrin | 0.826 | 0.636 | 0.464 | -0.04806 | -0.18217 | -32.63619 |
| *Total Component mg EtO* | 0.826 | 0.636 | 0.464 | -0.04806 | -0.18217 | -32.63619 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4C0578X** | | | | **Specification = ≤ 4 mg** | | |
| Suture (Surgidac) | 0.058 | 0.041 | 0.009 | -0.15527 | -2.65240 | -26.01108 |
| Plastic (Nylon Material) | 0.619 | 0.418 | 0.338 | -0.05042 | -0.50968 | -37.60244 |
| Metal | <0.037 | <0.018 | <0.038 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.714 | 0.477 | 0.385 | -0.05147 | -0.36839 | -34.09138 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400018EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.106 | 0.068 | 0.044 | -0.07327 | -2.24575 | -49.57018 |
| *Total Component mg EtO* | 0.106 | 0.068 | 0.044 | -0.07327 | -2.24575 | -49.57018 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **V-Loc PBT / VLOCN0437 / 1436400012EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.371 | 0.279 | 0.206 | -0.04903 | -0.98850 | -48.43826 |
| *Total Component mg EtO* | 0.371 | 0.279 | 0.206 | -0.04903 | -0.98850 | -48.43826 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO TCL Test Results:**

**Sample Set "B", RUN# ZB500130**

| **EtO TCL (µg/cm²)** | | | | | | |
|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | | | | | |
| | **0** | **6** | **12** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **Stratis / 200001-00 / 0928900102-B** | | | | **Specification = ≤ 115 µg/cm2** | | |
| Delrin | 79.2 | 58.2 | 46.7 | -0.04402 | 4.35732 | -8.80554 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4C0578X** | | | | **Specification = ≤ 18.3 µg/cm2** | | |
| Suture (Surgidac) | 0.252 | 0.176 | 0.038 | -0.15765 | -1.18267 | -25.94022 |
| Plastic (Nylon Material) | 16.3 | 10.8 | 8.87 | -0.05071 | 2.75537 | -2.98826 |
| Metal | <0.538 | <0.248 | <0.554 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400018EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 35.6 | 22.9 | 15.6 | -0.06876 | 3.56279 | 18.32857 |
| | | | | | | |
| **V-Loc PBT / VLOCN0437 / 1436400012EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 35 | 26.5 | 19.2 | -0.05004 | 3.56269 | 25.18365 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO Test Results:**

**Sample Set "C", RUN# ZA500136**

| **EtO (mg)** | | | | | | |
|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | | | | | |
| | **0** | **6** | **12** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **Stratis / 200001-00 / 0928900102-C** | | | | **Specification = ≤ 4 mg** | | |
| Delrin | 0.296 | 0.329 | 0.376 | 0.01994 | -1.22203 | *130.83639 |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Total Component mg EtO* | 0.296 | 0.329 | 0.376 | 0.01994 | -1.22203 | *130.83639 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4D1724X** | | | | **Specification = ≤ 4 mg** | | |
| Suture (Surgidac) | 0.083 | 0.043 | 0.027 | -0.09358 | -2.52096 | -41.75148 |
| Plastic (Nylon Material) | 0.478 | 0.378 | 0.301 | -0.03854 | -0.73930 | -55.15050 |
| Metal | <0.023 | <0.026 | <0.018 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.584 | 0.447 | 0.346 | -0.04362 | -0.53972 | -44.15262 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400019EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.103 | 0.061 | 0.04 | -0.07882 | -2.29000 | -46.64121 |
| *Total Component mg EtO* | 0.103 | 0.061 | 0.04 | -0.07882 | -2.29000 | -46.64121 |
| | | | | | | |
| **V-Loc PBT / VLOCN0437 / 1436400013EER** | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.38 | 0.247 | 0.164 | -0.07003 | -0.97113 | -33.66524 |
| *Total Component mg EtO* | 0.38 | 0.247 | 0.164 | -0.07003 | -0.97113 | -33.66524 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.
*Calculation cannot be used in these circumstances due to the occurrence of a positive. Because the slope is negligibly small and results across all aeration times were below specification; a 12Hr aeration set point is acceptable.

**EtO TCL Test Results:**

**Sample Set "C", RUN# ZA500136**

| **EtO TCL (µg/cm²)** | | | | | | |
|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Primary Aeration Time (Hr):*** | | | | | |
| | **0** | **6** | **12** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **Stratis / 200001-00 / 0928900102-C** | | | | **Specification = ≤ 115 µg/cm2** | | |
| Delrin | 76 | 36.1 | 31.5 | -0.07340 | 4.22938 | -7.02434 |
| | | | | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4D1724X** | | | | **Specification = ≤ 18.3 µg/cm2** | | |
| Suture (Surgidac) | 0.36 | 0.188 | 0.114 | -0.09583 | -1.04655 | -41.25683 |
| Plastic (Nylon Material) | 12 | 9.76 | 7.97 | -0.03410 | 2.48424 | -12.39411 |
| Metal | <0.336 | <0.380 | <0.258 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400019EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 36.6 | 21.4 | 14.3 | -0.07832 | 3.57779 | 16.28292 |

| | | | | | | |
|---|---|---|---|---|---|---|
| **V-Loc PBT / VLOCN0437 / 1436400013EER** | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 35.5 | 23.1 | 15.3 | -0.07014 | 3.56658 | 18.02102 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtCH Test Results:**
**Sample Set "A", RUN# ZA500129**

| Device / RO# / Lot# | EtCH (mg) | | EtCH TCL (mg/cm$^2$) |
|---|---|---|---|
| | *Aeration Time (12 Hr):* | | *Aeration Time (12 Hr):* |
| **Stratis / 200001-00 / 0928900102-A** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Delrin | <0.195 | | <0.024 |
| *Total Component mg EtCH* | 0.195 | | N/A |
| | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4G0397X** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture (Surgidac) | <0.141 | | <0.0006 |
| Plastic (Nylon Material) | <0.375 | | <0.010 |
| Metal | <0.457 | | <0.007 |
| *Total Component mg EtCH* | 0.973 | | N/A |
| | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400017EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.032 | | <0.011 |
| *Total Component mg EtCH* | 0.032 | | N/A |
| | | | |
| **V-Loc PBT / VLOCN0437 / 1436400011EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.132 | | <0.012 |
| *Total Component mg EtCH* | 0.132 | | N/A |

-Results that begin with < show no response.

**EtCH Test Results:**
**Sample Set "B", RUN# ZB500130**

| Device / RO# / Lot# | EtCH (mg) | | EtCH TCL (mg/cm$^2$) |
|---|---|---|---|
| | *Aeration Time (12 Hr):* | | *Aeration Time (12 Hr):* |
| **Stratis / 200001-00 / 0928900102-B** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Delrin | <0.140 | | <0.017 |
| *Total Component mg EtCH* | 0.14 | | N/A |

| | | | |
|---|---|---|---|
| **Surgidac Surgiwip Nylon / EDW-52 / N4C0578X** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture (Surgidac) | <0.105 | | <0.0005 |
| Plastic (Nylon Material) | <0.572 | | <0.015 |
| Metal | <0.481 | | <0.007 |
| *Total Component mg EtCH* | 1.158 | | N/A |
| | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400018EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.091 | | <0.032 |
| *Total Component mg EtCH* | 0.091 | | N/A |
| | | | |
| **V-Loc PBT / VLOCN0437 / 1436400012EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.260 | | <0.024 |
| *Total Component mg EtCH* | 0.26 | | N/A |

-Results that begin with < show no response.

**EtCH Test Results:**

**Sample Set "C", RUN# ZA500136**

| **Device / RO# / Lot#** | **EtCH (mg)** | | **EtCH TCL (mg/cm$^2$)** |
|---|---|---|---|
| | ***Aeration Time (12 Hr):*** | | ***Aeration Time (12 Hr):*** |
| **Stratis / 200001-00 / 0928900102-C** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Delrin | <0.127 | | <0.016 |
| *Total Component mg EtCH* | 0.127 | | N/A |
| | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4D1724X** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture (Surgidac) | <0.105 | | <0.0005 |
| Plastic (Nylon Material) | <0.277 | | <0.007 |
| Metal | <0.241 | | <0.003 |
| *Total Component mg EtCH* | 0.623 | | N/A |
| | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400019EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.055 | | <0.0195 |
| *Total Component mg EtCH* | 0.055 | | N/A |
| | | | |
| **V-Loc PBT / VLOCN0437 /** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |

| | | | |
|---|---|---|---|
| **1436400013EER** | | | |
| Suture | <0.121 | | <0.011 |
| *Total Component mg EtCH* | 0.121 | | N/A |

-Results that begin with < show no response.

**Blank Sample Test Results:**

**Sample Set "A"**

| **Device / Lot#** | **EtO (mg)** | | **EtO TCL (µg/cm²)** |
|---|---|---|---|
| | ***Blank Samples:*** | | ***Blank Samples:*** |
| **Stratis / 200001-00 / 0928900102-A** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Delrin | <0.020 | | <1.81 |
| | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4G0397X** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture (Surgidac) | <0.002 | | <0.007 |
| Plastic (Nylon Material) | <0.019 | | <0.523 |
| Metal | <0.041 | | <0.595 |
| | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400017EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0004 | | <0.151 |
| | | | |
| **V-Loc PBT / VLOCN0437 / 1436400011EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.162 |

**Blank Sample Test Results:**

**Sample Set "B"**

| **Device / Lot#** | **EtO (mg)** | | **EtO TCL (µg/cm²)** |
|---|---|---|---|
| | ***Blank Samples:*** | | ***Blank Samples:*** |
| **Stratis / 200001-00 / 0928900102-B** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Delrin | <0.018 | | <1.62 |
| | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4C0578X** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture (Surgidac) | <0.002 | | <0.007 |
| Plastic (Nylon Material) | <0.030 | | <0.821 |
| Metal | <0.025 | | <0.369 |
| | | | |
| **V-Loc PBT Reload / VLOCN008L /** | **Spec = < "No Response"** | | **Spec = < "No Response"** |

| | | | |
|---|---|---|---|
| **1436400018EER** | | | |
| Suture | <0.0004 | | <0.146 |
| | | | |
| **V-Loc PBT / VLOCN0437 / 1436400012EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.167 |

**Blank Sample Test Results:**

**Sample Set "C"**

| **Device / Lot#** | **EtO (mg)** | | **EtO TCL (µg/cm²)** |
|---|---|---|---|
| | ***Blank Samples:*** | | ***Blank Samples:*** |
| **Stratis / 200001-00 / 0928900102-C** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Delrin | <0.023 | | <1.80 |
| | | | |
| **Surgidac Surgiwip Nylon / EDW-52 / N4D1724X** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture (Surgidac) | <0.002 | | <0.008 |
| Plastic (Nylon Material) | <0.021 | | <0.554 |
| Metal | <0.172 | | <0.280 |
| | | | |
| **V-Loc PBT Reload / VLOCN008L / 1436400019EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0004 | | <0.151 |
| | | | |
| **V-Loc PBT / VLOCN0437 / 1436400013EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.164 |

All EtO/EtCH blank samples tested were acceptable for EtO(mg) and TCL(µg/cm²) to the specifications listed in the protocol showing no response. This shows no initial exposure to EtO, so EtCH was not tested.

**Average & Acceptance Level**

| **EtO (mg): Aeration Specification** | | | | | | |
|---|---|---|---|---|---|---|
| **Device** | **Time to Spec (Hr)** | | | **Calculations (Hr)** | | |
| **Stratis** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Delrin | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Surgidac Surgiwip** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |

| | | | | | | |
|---|---|---|---|---|---|---|
| Suture (Surgidac) | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic (Nylon Material) | 0 | 0 | 0 | 0 | 0 | 0 |
| Metal | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc PBT Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| | | | | | | |
| **V-Loc PBT** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |

**Average & Acceptance Level**

| **EtO TCL (µg/cm2): Aeration Specification** | | | | | | |
|---|---|---|---|---|---|---|
| **Device** | **Time to Spec (Hr)** | | | **Calculations (Hr)** | | |
| **Stratis** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Delrin | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Surgidac Surgiwip** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture (Surgidac) | 0 | 0 | 0 | 0 | 0 | 0 |
| Plastic (Nylon Material) | 0 | 0 | 0 | 0 | 0 | 0 |
| Metal | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc PBT Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 16.19821 | 18.32857 | 16.28292 | 16.93657 | 0.98490 | 18.90637 |
| | | | | | | |
| | | | | | | |
| **V-Loc PBT** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 19.85968 | 25.18365 | 18.02102 | 21.02145 | 3.03734 | 27.09612 |

A dissipation curve and acceptance level was not evaluated for EtCH because of the negligible amounts present during testing.

Upon examination of all test results the minimum aeration time required for evaluated non-absorbable product following 1X sterilization in the Covidien: North Haven, CT "Combo" cycle is as follows:

| Product | | Secondary Aeration | | Secondary Aeration |
|---|---|---|---|---|

| | Time | Room |
|---|---|---|
| Stratis (Master product for non-absorbable) | 0 Hours | Primary |
| Surgidac Surgiwip (Master product for non-absorbable) | 0 Hours | Primary |
| V-Loc PBT Reload | 18.9 Hours | Primary + Suture Secondary |
| V-Loc PBT | 27.1 Hours | Primary + Suture Secondary |

All EtO residual cycles and cycle review sheets are contained in the EtO Residual Cycle section of the "Final Report Binder A". Copies of the EtO residual results summary sheets are contained within the Residual Summary section of the "Final Report Binder A". All EtO residual results summary sheets, and raw data are contained in the EtO Residual Validation section of the "Final Report Binder B".

## 1X Aeration Qualification: (Absorbable Product)

V-Loc 90, V-Loc 180, V-Loc 180 Reload, Maxon, Polysorb, Absorbatack, Laproclip, Poly Roticulator, Meniscal Stapler, Suture Anchor, Poly GIA, SPSP 55, Reinforced Reload, and Reliatack Reload were the absorbable products assessed in study STE14-028. If additional absorbable product families are to be processed in the Covidien: North Haven, CT 100% EO Combo cycle an additional aeration study must be completed to determine the necessary aeration time required by said products. The specified products were assessed to determine the minimum secondary aeration time required to reduce EtO and EtCH residual content to within the guidelines of EN/ISO10993-7:2008, following a minimum of 12 hours primary aeration.

Adequate test sample amounts (as advised by North Haven: Chemistry Department) of each product from an individual lot were placed in each of five boxes. Box one was labeled "1X-0Hr", box two was labeled "1X-24Hr", box three was labeled "1X-48Hr", box four was labeled "1X-72Hr", and box five was labeled "Blank". This was repeated two additional times with different lots for a total of 15 boxes.

All boxes, with the exception of the "Blanks" which remained non-sterile, were processed through one clinical Combo cycle with the maximum exposure time of 11 hours, the upper level EtO gas inject pressure and gas concentration, and a full 6-pallet chamber load. Cycle#311 was used in place of routine clinical cycle#310. Cycle#311 uses the same cycle parameters as cycle#310, with the exception of containing the maximum 11 hour exposure time and upper specification gas injection pressure / gas concentration. The "1X" boxes containing the absorbable test product from lot "A" were

processed in cycle ZA500129. The "1X" boxes containing the absorbable test product from lot "B" were processed in cycle ZB500130. The "1X" boxes containing the absorbable test product from lot "C" were processed in cycle ZA500136. All boxes were subjected to 12 hours of primary aeration following the cycle. Boxes were removed from primary aeration at the 12 hour aeration and placed into either the "Polymer Secondary Aeration Room" or "Suture Secondary Aeration Room" depending on product. A summary matrix detailing the products which were placed into each secondary aeration room along with aeration pull times and dates can be found in the residual summary section of the final report. Boxes were pulled at the appropriate secondary aeration times of 0Hr, 24Hr, 48Hr, or 72Hr. All boxes were immediately frozen after the designated aeration period. Boxes were forwarded frozen to the Chemistry Lab in North Haven where they remained frozen until testing began.

The implantable materials of each device were tested exhaustively for EtO and EtCH according to CHEM-033 and ISO10993-7. The tissue contacting portions of each device were extracted aqueously and tested for EtO and EtCH by simulated use according to CHEM-029 and ISO10993-7. The boiling point of EtCH is 128.8°C; because the temperature during aeration is less than 128.8°C the amount of EtCH held on a device will be the same regardless of aeration time, therefore only the 72 hour samples were tested for EtCH.

Degassing curve calculations were completed using first order kinetics.
Results will be acceptable at the below specifications as stated by ISO10993-7:2008 and irritation results performed on elevated residual levels of the material during studies P-ETO12 and NAMSA T1251_800 GLP Report

V-Loc 90:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

V-Loc 180:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

V-Loc 180 Reload:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

Maxon:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

Polysorb:
EtO: $\leq$4mg with a TCL of $\leq$10μg/cm²
EtCH: $\leq$9mg with a TCL of $\leq$5mg/cm²

Absorbatack:
EtO: ≤4mg with a TCL of ≤98.3μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Laproclip:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Poly Roticulator:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Meniscal Stapler:
EtO: ≤4mg with a TCL of ≤17.6μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Suture Anchor:
EtO: ≤4mg with a TCL of ≤18.7μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Poly GIA:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

SPSP 55:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Reinforced Reload:
EtO: ≤4mg with a TCL of ≤10μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

Reliatack Reload:
EtO: ≤4mg with a TCL of ≤98.3μg/cm²
EtCH: ≤9mg with a TCL of ≤5mg/cm²

**EtO Test Results:**
**Sample Set "A", RUN# ZA500129**

| EtO (mg) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Device / RO# / Lot# | *Secondary Aeration Time (Hr):* | | | | | | |
| | 0 | 24 | 48 | 72 | Slope | Intercept | Time to Spec (Hr) |
| V-Loc 90 / VLOCM0135 / 1436400005EER | | | | | Specification = ≤ 4 mg | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Suture | 0.138 | 0.074 | 0.05 | 0.027 | -0.02203 | -2.00502 | -153.96701 |
| *Total Component mg EtO* | 0.138 | 0.074 | 0.05 | 0.027 | -0.02203 | -2.00502 | -153.96701 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400008EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.231 | 0.163 | 0.107 | 0.096 | -0.01273 | -1.50615 | -227.21997 |
| *Total Component mg EtO* | 0.231 | 0.163 | 0.107 | 0.096 | -0.01273 | -1.50615 | -227.21997 |
| | | | | | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400014EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.084 | 0.059 | 0.047 | 0.036 | -0.01154 | -2.50686 | -337.40009 |
| *Total Component mg EtO* | 0.084 | 0.059 | 0.047 | 0.036 | -0.01154 | -2.50686 | -337.40009 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400020EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.35 | 0.234 | 0.166 | 0.132 | -0.01362 | -1.09044 | -181.84911 |
| *Total Component mg EtO* | 0.35 | 0.234 | 0.166 | 0.132 | -0.01362 | -1.09044 | -181.84911 |
| | | | | | | | |
| **Polysorb / L43 / 1436400023EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.072 | 0.049 | 0.04 | 0.027 | -0.01311 | -2.64764 | -307.79409 |
| *Total Component mg EtO* | 0.072 | 0.049 | 0.04 | 0.027 | -0.01311 | -2.64764 | -307.79409 |
| | | | | | | | |
| **Absorbatack / ABSTACK30 / 1429600001EER** | | | | | **Specification = ≤ 4 mg** | | |
| Tacks | 0.66 | 0.522 | 0.4 | 0.475 | -0.00522 | -0.49364 | -360.08888 |
| Shaft | <0.0355 | <0.0669 | <0.0272 | <0.0440 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.6955 | 0.5889 | 0.4272 | 0.519 | -0.00500 | -0.41987 | -361.47754 |
| | | | | | | | |
| **Laproclip / 8886848812 / 1429600004EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clip | 0.015 | 0.0174 | 0.0128 | 0.00803 | -0.00909 | -4.03122 | -595.98064 |
| *Total Component mg EtO* | 0.015 | 0.0174 | 0.0128 | 0.00803 | -0.00909 | -4.03122 | -595.98064 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900003EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 0.737 | 0.531 | 0.518 | 0.357 | -0.00916 | -0.32659 | -186.91577 |
| Staples | 0.137 | 0.121 | 0.113 | 0.108 | -0.00326 | -2.00914 | -1042.14121 |
| *Total Component mg EtO* | 0.874 | 0.652 | 0.631 | 0.465 | -0.00802 | -0.15826 | -192.48083 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500010EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.0431 | <0.0389 | <0.0433 | <0.0417 | 0 | 0 | 0 |
| Staples | 0.0272 | 0.0231 | 0.0213 | 0.0211 | -0.00351 | -3.64355 | -1432.05783 |
| *Total Component mg EtO* | 0.0703 | 0.062 | 0.0646 | 0.0628 | -0.00124 | -2.69113 | -3290.78775 |
| | | | | | | | |
| **Suture Anchor / 273026 / 1502600002EER** | | | | | **Specification = ≤ 4 mg** | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Shaft | 0.45 | 0.632 | 0.199 | 0.213 | -0.01416 | -0.59465 | -139.85425 |
| Suture | 0.281 | 0.215 | 0.0966 | 0.183 | -0.00869 | -1.39749 | -320.18008 |
| Anchor | 0.0457 | 0.0374 | 0.0367 | 0.0386 | -0.00219 | -3.15399 | -2073.85247 |
| *Total Component mg EtO* | 0.7767 | 0.8844 | 0.3323 | 0.4346 | -0.01134 | -0.16953 | -137.24093 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900012EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 0.871 | 1.25 | 0.674 | 0.511 | -0.00924 | 0.08740 | -140.57992 |
| Staples | 0.288 | 0.25 | 0.304 | 0.209 | -0.00319 | -1.23186 | -819.97641 |
| *Total Component mg EtO* | 1.159 | 1.5 | 0.978 | 0.72 | -0.00773 | 0.32895 | -136.73292 |
| | | | | | | | |
| **SPSP 55 / 013507L / 1502600005EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 0.546 | 0.436 | 0.345 | 0.261 | -0.01020 | -0.59341 | -194.05793 |
| Staples | 0.147 | 0.0774 | 0.0713 | 0.0907 | -0.00638 | -2.14968 | -554.40308 |
| *Total Component mg EtO* | 0.693 | 0.5134 | 0.4163 | 0.3517 | -0.00935 | -0.40203 | -191.22996 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600003EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 0.22 | 0.106 | 0.058 | 0.036 | -0.02514 | -1.57750 | -117.89701 |
| Buttress | 0.116 | 0.056 | 0.03 | 0.016 | -0.02736 | -2.18450 | -130.49639 |
| Staples | <0.0014 | <0.002 | <0.002 | <0.0018 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.3374 | 0.164 | 0.09 | 0.0538 | -0.02545 | -1.13999 | -99.26406 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400003EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.0322 | <0.0315 | <0.0317 | <0.0263 | 0 | 0 | 0 |
| Tacks | 0.196 | 0.173 | 0.151 | 0.148 | -0.00408 | -1.64947 | -744.42633 |
| *Total Component mg EtO* | 0.2282 | 0.2045 | 0.1827 | 0.1743 | -0.00384 | -1.48974 | -749.41056 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO TCL Test Results:**
**Sample Set "A", RUN# ZA500129**

| **EtO TCL (µg/cm²)** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Secondary Aeration Time (Hr):*** | | | | | | |
| | **0** | **24** | **48** | **72** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **V-Loc 90 / VLOCM0135 / 1436400005EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 20.6 | 11 | 7.48 | 4.07 | -0.02188 | 2.99736 | 31.75731 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400008EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 27.3 | 19.2 | 12.5 | 11.3 | -0.01281 | 3.26440 | 75.05767 |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **V-Loc 180 Reload / VLOCA008L / 1436400014EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 28.2 | 20.9 | 16.7 | 12.7 | -0.01091 | 3.32665 | 93.89664 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400020EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 27.1 | 18.2 | 12.9 | 10.3 | -0.01353 | 3.25954 | 70.74631 |
| | | | | | | | |
| **Polysorb / L43 / 1436400023EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 0.361 | 0.243 | 0.196 | 0.134 | -0.01328 | -1.04007 | -251.63815 |
| | | | | | | | |
| **Absorbatack / ABSTACK30 / 1429600001EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Tacks | 36.9 | 29.6 | 22.4 | 26.7 | -0.00521 | 3.53483 | -202.31703 |
| Shaft | <0.596 | <1.12 | <0.453 | <0.613 | 0 | 0 | 0 |
| | | | | | | | |
| **Laproclip / 8886848812 / 1429600004EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clip | 8.06 | 9.35 | 6.88 | 4.32 | -0.00907 | 2.25520 | -5.22205 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900003EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 5.42 | 3.9 | 3.81 | 2.63 | -0.00914 | 1.66782 | -69.47775 |
| Staples | 9.79 | 8.56 | 7.99 | 7.64 | -0.00339 | 2.25693 | -13.48004 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500010EER** | | | | | **Specification = ≤ 17.6 µg/cm2** | | |
| Shaft | <2.36 | <2.14 | <2.18 | <2.09 | 0 | 0 | 0 |
| Staples | 32.9 | 28 | 25.8 | 24.3 | -0.00413 | 3.46525 | 144.69387 |
| | | | | | | | |
| **Suture Anchor / 273026 / 1502600002EER** | | | | | **Specification = ≤ 18.7 µg/cm2** | | |
| Shaft | 16 | 20.3 | 6.72 | 7.24 | -0.01452 | 2.93965 | 0.76602 |
| Suture | 2.12 | 1.64 | 0.736 | 1.4 | -0.00853 | 0.62592 | -270.09280 |
| Anchor | 23.1 | 18.9 | 18.6 | 19.5 | -0.00218 | 3.07178 | 65.58216 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900012EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 18.2 | 14 | 14 | 5.6 | -0.01473 | 3.00597 | 47.74156 |
| Staples | 10 | 8.68 | 10.6 | 7.24 | -0.00320 | 2.31638 | 4.30476 |
| | | | | | | | |
| **SPSP 55 / 013507L / 1502600005EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 7.78 | 6.01 | 7.62 | 3.69 | -0.00834 | 2.09541 | -24.85537 |
| Staples | 10.5 | 5.46 | 5.08 | 6.56 | -0.00618 | 2.11128 | -30.95438 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600003EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 5.14 | 2.66 | 1.34 | 0.85 | -0.02535 | 1.59904 | -27.75162 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| Buttress | 4.06 | 1.99 | 0.977 | 0.62 | -0.02645 | 1.34936 | -36.03266 |
| Staples | <0.272 | <0.347 | <0.347 | <0.338 | 0 | 0 | 0 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400003EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Shaft | <1.54 | <1.50 | <1.48 | <1.56 | 0 | 0 | 0 |
| Tacks | 32.7 | 28.8 | 25.5 | 24.8 | -0.00396 | 3.46701 | -282.81868 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO Test Results:**
**Sample Set "B", RUN# ZB500130**

| EtO (mg) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Secondary Aeration Time (Hr):*** | | | | | | |
| | **0** | **24** | **48** | **72** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **V-Loc 90 / VLOCM0135 / 1436400006EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.176 | 0.085 | 0.06 | 0.04 | -0.01997 | -1.83970 | -161.53111 |
| *Total Component mg EtO* | 0.176 | 0.085 | 0.06 | 0.04 | -0.01997 | -1.83970 | -161.53111 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400009EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.291 | 0.166 | 0.13 | 0.105 | -0.01376 | -1.33567 | -197.80885 |
| *Total Component mg EtO* | 0.291 | 0.166 | 0.13 | 0.105 | -0.01376 | -1.33567 | -197.80885 |
| | | | | | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400015EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.107 | 0.043 | 0.043 | 0.038 | -0.01294 | -2.48369 | -299.05928 |
| *Total Component mg EtO* | 0.107 | 0.043 | 0.043 | 0.038 | -0.01294 | -2.48369 | -299.05928 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400021EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.409 | 0.235 | 0.166 | 0.156 | -0.01350 | -1.01309 | -177.77765 |
| *Total Component mg EtO* | 0.409 | 0.235 | 0.166 | 0.156 | -0.01350 | -1.01309 | -177.77765 |
| | | | | | | | |
| **Polysorb / L43 / 1436400024EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.089 | 0.052 | 0.034 | 0.023 | -0.01868 | -2.45968 | -205.83607 |
| *Total Component mg EtO* | 0.089 | 0.052 | 0.034 | 0.023 | -0.01868 | -2.45968 | -205.83607 |
| | | | | | | | |
| **Absorbatack / ABSTACK30 / 1429600002EER** | | | | | **Specification = ≤ 4 mg** | | |
| Tacks | 0.792 | 0.666 | 0.529 | 0.445 | -0.00817 | -0.22756 | -197.63906 |
| Shaft | <0.0546 | <0.0283 | <0.094 | <0.0742 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.8466 | 0.6943 | 0.623 | 0.5192 | -0.00656 | -0.17874 | -238.45445 |
| | | | | | | | |

| **Laproclip / 8886848812 / 1429600005EER** | | | | | **Specification = ≤ 4 mg** | | |
|---|---|---|---|---|---|---|---|
| Clip | 0.0323 | 0.0201 | 0.0143 | 0.014 | -0.01187 | -3.53671 | -414.78820 |
| *Total Component mg EtO* | 0.0323 | 0.0201 | 0.0143 | 0.014 | -0.01187 | -3.53671 | -414.78820 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900004EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 1.61 | 0.756 | 0.526 | 0.368 | -0.01996 | 0.35717 | -51.55882 |
| Staples | 0.225 | 0.202 | 0.183 | 0.154 | -0.00515 | -1.47962 | -556.38693 |
| *Total Component mg EtO* | 1.835 | 0.958 | 0.709 | 0.522 | -0.01697 | 0.50340 | -52.03228 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500011EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.041 | 0.0331 | <0.032 | <0.0455 | 0 | 0 | 0 |
| Staples | 0.0398 | 0.0361 | 0.0331 | 0.0267 | -0.00535 | -3.20151 | -857.28687 |
| *Total Component mg EtO* | 0.0808 | 0.0692 | 0.0651 | 0.0722 | -0.00166 | -2.57687 | -2385.72730 |
| | | | | | | | |
| **Suture Anchor / 273026 / 1502600003EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | 0.478 | 0.309 | 0.375 | 0.18 | -0.01140 | -0.74159 | -186.63082 |
| Suture | 0.246 | 0.231 | 0.206 | 0.0564 | -0.01889 | -1.15076 | -134.32083 |
| Anchor | 0.0583 | 0.064 | 0.053 | 0.0419 | -0.00491 | -2.74831 | -841.26416 |
| *Total Component mg EtO* | 0.7823 | 0.604 | 0.634 | 0.2783 | -0.01272 | -0.16329 | -121.84927 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900009EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 1.87 | 1.09 | 0.578 | 0.458 | -0.02023 | 0.57399 | -40.15664 |
| Staples | 0.444 | 0.323 | 0.285 | 0.248 | -0.00780 | -0.86705 | -288.83672 |
| *Total Component mg EtO* | 2.314 | 1.413 | 0.863 | 0.706 | -0.01689 | 0.78046 | -35.86200 |
| | | | | | | | |
| **SPSP 55 / 013507L / 1502600006EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 0.72 | 0.535 | 0.372 | 0.253 | -0.01459 | -0.30416 | -115.88523 |
| Staples | 0.187 | 0.177 | 0.134 | 0.13 | -0.00570 | -1.65924 | -533.90173 |
| *Total Component mg EtO* | 0.907 | 0.712 | 0.506 | 0.383 | -0.01220 | -0.08038 | -120.22462 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600004EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 0.23 | 0.087 | 0.078 | 0.04 | -0.02232 | -1.61684 | -134.54913 |
| Buttress | 0.149 | 0.066 | 0.06 | 0.025 | -0.02271 | -1.96347 | -147.49852 |
| Staples | <0.001 | <0.001 | <0.001 | <0.002 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.38 | 0.154 | 0.139 | 0.067 | -0.02212 | -1.08235 | -111.59975 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400004EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.027 | <0.0269 | <0.031 | <0.0273 | 0 | 0 | 0 |
| Tacks | 0.257 | 0.262 | 0.204 | 0.184 | -0.00522 | -1.30724 | -516.06628 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Total Component mg EtO* | 0.284 | 0.2889 | 0.235 | 0.2113 | -0.00456 | -1.21174 | -570.17068 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO TCL Test Results:**
**Sample Set "B", RUN# ZB500130**

| EtO TCL (µg/cm²) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Secondary Aeration Time (Hr):*** | | | | | | |
| | **0** | **24** | **48** | **72** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **V-Loc 90 / VLOCM0135 / 1436400006EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 26.2 | 12.7 | 8.99 | 6.01 | -0.01984 | 3.16360 | 43.38973 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400009EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 34.4 | 19.6 | 15.4 | 12.5 | -0.01366 | 3.43514 | 82.91692 |
| | | | | | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400015EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 37.7 | 15.3 | 15.3 | 13.3 | -0.01302 | 3.38714 | 83.27515 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400021EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 31.8 | 18.3 | 13 | 12.2 | -0.01340 | 3.34059 | 77.46237 |
| | | | | | | | |
| **Polysorb / L43 / 1436400024EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 0.444 | 0.261 | 0.167 | 0.206 | -0.01146 | -0.96865 | -285.45065 |
| | | | | | | | |
| **Absorbatack / ABSTACK30 / 1429600002EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Tacks | 44.6 | 37.6 | 29.8 | 25 | -0.00820 | 3.80489 | -95.45214 |
| Shaft | <0.934 | <0.484 | <1.23 | <1.27 | 0 | 0 | 0 |
| | | | | | | | |
| **Laproclip / 8886848812 / 1429600005EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clip | 17.4 | 10.8 | 7.69 | 7.53 | -0.01188 | 2.75156 | 37.77731 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900004EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 11.9 | 5.56 | 3.87 | 2.71 | -0.02000 | 2.35575 | 2.65772 |
| Staples | 15.8 | 14.2 | 12.9 | 10.9 | -0.00504 | 2.77127 | 92.98181 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500011EER** | | | | | **Specification = ≤ 17.6 µg/cm2** | | |
| Shaft | <2.18 | 1.73 | <1.78 | <2.40 | 0 | 0 | 0 |
| Staples | 48.2 | 43.7 | 40.1 | 32.3 | -0.00536 | 3.89781 | 192.08171 |
| | | | | | | | |

| Suture Anchor / 273026 / 1502600003EER | | | | | Specification = ≤ 18.7 µg/cm2 | | |
|---|---|---|---|---|---|---|---|
| Shaft | 17.3 | 9.1 | 12.6 | 6.41 | -0.01105 | 2.76060 | -15.19009 |
| Suture | 1.88 | 1.76 | 1.43 | 0.429 | -0.01933 | 0.87304 | -106.30995 |
| Anchor | 29.5 | 32.4 | 26.8 | 21.2 | -0.00492 | 3.47838 | 111.74702 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900009EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 20.5 | 12.1 | 6.34 | 5.16 | -0.01994 | 2.96808 | 33.38052 |
| Staples | 15.4 | 11.4 | 9.88 | 8.56 | -0.00794 | 2.68713 | 48.44955 |
| | | | | | | | |
| **SPSP 55 / 013507L / 1502600006EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 10.5 | 7.52 | 5.39 | 3.67 | -0.01453 | 2.36141 | 4.04892 |
| Staples | 13.4 | 12.7 | 9.56 | 9.37 | -0.00566 | 2.61158 | 54.63859 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600004EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 5.53 | 2.09 | 1.86 | 0.921 | -0.02289 | 1.57051 | -31.97960 |
| Buttress | 5.28 | 2.24 | 1.91 | 0.957 | -0.02201 | 1.56084 | -33.69653 |
| Staples | <0.245 | <0.245 | <0.245 | <0.326 | 0 | 0 | 0 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400004EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Shaft | <1.35 | <1.25 | <1.41 | <1.26 | 0 | 0 | 0 |
| Tacks | 43.3 | 43.6 | 34.2 | 30.9 | -0.00523 | 3.81480 | -147.86489 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtO Test Results:**

**Sample Set "C", RUN# ZA500136**

| EtO (mg) | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Secondary Aeration Time (Hr):*** | | | | | | |
| | **0** | **24** | **48** | **72** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **V-Loc 90 / VLOCM0135 / 1436400007EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.171 | 0.07 | 0.025 | 0.028 | -0.02691 | -1.95375 | -124.12668 |
| *Total Component mg EtO* | 0.171 | 0.07 | 0.025 | 0.028 | -0.02691 | -1.95375 | -124.12668 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400010EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.261 | 0.158 | 0.119 | 0.105 | -0.01256 | -1.44043 | -225.00178 |
| *Total Component mg EtO* | 0.261 | 0.158 | 0.119 | 0.105 | -0.01256 | -1.44043 | -225.00178 |
| | | | | | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400016EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.093 | 0.047 | 0.035 | 0.038 | -0.01242 | -2.56686 | -318.39191 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| *Total Component mg EtO* | 0.093 | 0.047 | 0.035 | 0.038 | -0.01242 | -2.56686 | -318.39191 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400022EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.368 | 0.215 | 0.157 | 0.145 | -0.01295 | -1.11356 | -193.01196 |
| *Total Component mg EtO* | 0.368 | 0.215 | 0.157 | 0.145 | -0.01295 | -1.11356 | -193.01196 |
| | | | | | | | |
| **Polysorb / L43 / 1436400025EER** | | | | | **Specification = ≤ 4 mg** | | |
| Suture | 0.091 | 0.049 | 0.031 | 0.026 | -0.01757 | -2.50165 | -221.31848 |
| *Total Component mg EtO* | 0.091 | 0.049 | 0.031 | 0.026 | -0.01757 | -2.50165 | -221.31848 |
| | | | | | | | |
| **Absorbatack / ABSTACK30 / 1429600003EER** | | | | | **Specification = ≤ 4 mg** | | |
| Tacks | 0.65 | 0.614 | 0.493 | 0.495 | -0.00432 | -0.42674 | -419.71177 |
| Shaft | <0.074 | <0.0843 | <0.0737 | <0.0555 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.724 | 0.6983 | 0.5667 | 0.5505 | -0.00429 | -0.30712 | -394.31036 |
| | | | | | | | |
| **Laproclip / 8886848812 / 1429600006EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clip | 0.0198 | 0.0196 | 0.0164 | 0.00729 | -0.01323 | -3.74514 | -387.79217 |
| *Total Component mg EtO* | 0.0198 | 0.0196 | 0.0164 | 0.00729 | -0.01323 | -3.74514 | -387.79217 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900005EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 0.994 | 0.749 | 0.632 | 0.398 | -0.01215 | 0.01855 | -112.58253 |
| Staples | 0.207 | 0.142 | 0.164 | 0.123 | -0.00591 | -1.64497 | -513.20705 |
| *Total Component mg EtO* | 1.201 | 0.891 | 0.796 | 0.521 | -0.01091 | 0.18963 | -109.69251 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500012EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.0461 | <0.0398 | <0.0576 | <0.0267 | 0 | 0 | 0 |
| Staples | 0.0408 | 0.0252 | 0.0311 | 0.0261 | -0.00471 | -3.32961 | -1001.71676 |
| *Total Component mg EtO* | 0.0869 | 0.065 | 0.0887 | 0.0528 | -0.00493 | -2.45745 | -779.22349 |
| | | | | | | | |
| **Suture Anchor / 273026 / 1502600004EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | 0.358 | 0.454 | 0.352 | 0.166 | -0.01067 | -0.78018 | -203.09870 |
| Suture | 0.337 | 0.164 | 0.129 | 0.163 | -0.01008 | -1.32652 | -269.14480 |
| Anchor | 0.0529 | 0.048 | 0.0521 | 0.0446 | -0.00179 | -2.94562 | -2417.56404 |
| *Total Component mg EtO* | 0.7479 | 0.666 | 0.5331 | 0.3736 | -0.00960 | -0.23192 | -168.50290 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900010EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 0.929 | 1.27 | 0.873 | 0.417 | -0.01157 | 0.20541 | -102.02411 |
| Staples | 0.329 | 0.302 | 0.272 | 0.281 | -0.00241 | -1.13343 | -1046.73567 |
| *Total Component mg EtO* | 1.258 | 1.572 | 1.145 | 0.698 | -0.00868 | 0.42705 | -110.46274 |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **SPSP 55 / 013507L / 1502600007EER** | | | | | **Specification = ≤ 4 mg** | | |
| Clamp | 0.776 | 0.781 | 0.545 | 0.275 | -0.01447 | -0.07889 | -101.28224 |
| Staples | 0.168 | 0.149 | 0.124 | 0.123 | -0.00466 | -1.79981 | -683.34472 |
| *Total Component mg EtO* | 0.944 | 0.93 | 0.669 | 0.398 | -0.01217 | 0.07469 | -107.78708 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600005EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft & Cartridge | 0.271 | 0.105 | 0.054 | 0.04 | -0.02669 | -1.46357 | -106.79141 |
| Buttress | 0.108 | 0.043 | 0.025 | 0.021 | -0.02273 | -2.41280 | -167.14162 |
| Staples | <0.002 | <0.002 | <0.002 | <0.002 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0.381 | 0.15 | 0.081 | 0.063 | -0.02506 | -1.13272 | -100.50644 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400005EER** | | | | | **Specification = ≤ 4 mg** | | |
| Shaft | <0.025 | <0.0461 | <0.0371 | <0.0226 | 0 | 0 | 0 |
| Tacks | 0.217 | 0.197 | 0.168 | 0.187 | -0.00252 | -1.56237 | -1168.54808 |
| *Total Component mg EtO* | 0.242 | 0.2431 | 0.2051 | 0.2096 | -0.00250 | -1.40480 | -1114.23619 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**<u>EtO TCL Test Results:</u>**
**Sample Set "C", RUN# ZA500136**

| **EtO TCL (µg/cm²)** | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Device / RO# / Lot#** | ***Secondary Aeration Time (Hr):*** | | | | | | |
| | **0** | **24** | **48** | **72** | **Slope** | **Intercept** | **Time to Spec (Hr)** |
| **V-Loc 90 / VLOCM0135 / 1436400007EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 25.9 | 10.4 | 3.68 | 4.22 | -0.02701 | 3.05702 | 27.93279 |
| | | | | | | | |
| **V-Loc 180 / VLOCL0536 / 1436400010EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 30.7 | 18.7 | 14 | 12.3 | -0.01264 | 3.33038 | 81.31667 |
| | | | | | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400016EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 32.9 | 16.5 | 12.4 | 13.3 | -0.01251 | 3.30099 | 79.79833 |
| | | | | | | | |
| **Maxon / 8886626971 / 1436400022EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 28.6 | 16.9 | 12.4 | 11.2 | -0.01301 | 3.24690 | 72.59062 |
| | | | | | | | |
| **Polysorb / L43 / 1436400025EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Suture | 0.454 | 0.243 | 0.154 | 0.131 | -0.01744 | -0.89921 | -183.62371 |
| | | | | | | | |

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| **Absorbatack / ABSTACK30 / 1429600003EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Tacks | 36.6 | 34.2 | 27.7 | 27.7 | -0.00436 | 3.60078 | -226.37986 |
| Shaft | <1.23 | <1.40 | <1.22 | <0.915 | 0 | 0 | 0 |
| | | | | | | | |
| **Laproclip / 8886848812 / 1429600006EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clip | 10.6 | 10.5 | 8.82 | 3.92 | -0.01316 | 2.53763 | 17.85933 |
| | | | | | | | |
| **Poly Roticulator / 013601 / 1500900005EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 7.31 | 5.51 | 4.65 | 2.93 | -0.01214 | 2.01378 | -23.79899 |
| Staples | 14.6 | 10 | 11.5 | 8.66 | -0.00595 | 2.61024 | 51.73734 |
| | | | | | | | |
| **Meniscal Stapler / 160510 / 1426500012EER** | | | | | **Specification = ≤ 17.6 µg/cm2** | | |
| Shaft | <2.88 | <2.19 | <2.83 | <1.44 | 0 | 0 | 0 |
| Staples | 49.4 | 30.5 | 37.7 | 31.6 | -0.00470 | 3.76939 | 191.73084 |
| | | | | | | | |
| **Suture Anchor / 273026 / 1502600004EER** | | | | | **Specification = ≤ 18.7 µg/cm2** | | |
| Shaft | 15 | 14.1 | 12.5 | 5.92 | -0.01212 | 2.85101 | -6.39372 |
| Suture | 2.56 | 1.25 | 0.982 | 1.24 | -0.01007 | 0.70242 | -221.13617 |
| Anchor | 26.8 | 24.3 | 26.4 | 22.6 | -0.00179 | 3.28182 | 197.89269 |
| | | | | | | | |
| **Poly GIA / 030775 / 1500900010EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 10.5 | 15.9 | 13 | 4.66 | -0.01099 | 2.70118 | 36.25740 |
| Staples | 11.2 | 10.5 | 9.46 | 9.65 | -0.00230 | 2.40301 | 43.72672 |
| | | | | | | | |
| **SPSP 55 / 013507L / 1502600007EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Clamp | 11.2 | 11.1 | 7.74 | 4.07 | -0.01416 | 2.57783 | 19.44412 |
| Staples | 12 | 10.7 | 8.88 | 8.77 | -0.00470 | 2.47164 | 35.99725 |
| | | | | | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600005EER** | | | | | **Specification = ≤ 10 µg/cm2** | | |
| Shaft & Cartridge | 6.38 | 2.45 | 1.29 | 0.927 | -0.02678 | 1.69628 | -22.63625 |
| Buttress | 3.75 | 1.48 | 0.885 | 0.69 | -0.02330 | 1.14404 | -49.71694 |
| Staples | <0.342 | <0.342 | <0.342 | <0.320 | 0 | 0 | 0 |
| | | | | | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400005EER** | | | | | **Specification = ≤ 98.3 µg/cm2** | | |
| Shaft | <1.39 | <2.07 | <1.79 | <1.07 | 0 | 0 | 0 |
| Tacks | 36.2 | 33.2 | 28.1 | 31.3 | -0.00251 | 3.55821 | -409.80412 |

-Time to specification calculations with negative number will be taken as 0Hr.
-Results that begin with < show no response, and will be evaluated as 0Hr.

**EtCH Test Results:**

**Sample Set "A", RUN# ZA500129**

| Device / RO# / Lot# | EtCH (mg) | | EtCH TCL (mg/cm$^2$) |
|---|---|---|---|
| | *Aeration Time (72 Hr):* | | *Aeration Time (72 Hr):* |
| **V-Loc 90 / VLOCM0135 / 1436400005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.045 | | <0.0066 |
| *Total Component mg EtCH* | 0.045 | | N/A |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400008EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.076 | | <0.0090 |
| *Total Component mg EtCH* | 0.076 | | N/A |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400014EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.036 | | <0.013 |
| *Total Component mg EtCH* | 0.036 | | N/A |
| | | | |
| **Maxon / 8886626971 / 1436400020EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.088 | | <0.007 |
| *Total Component mg EtCH* | 0.088 | | N/A |
| | | | |
| **Polysorb / L43 / 1436400023EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | 0.147 | | <0.0007 |
| *Total Component mg EtCH* | 0.147 | | N/A |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600001EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Tacks | <0.0908 | | <0.00511 |
| Shaft | <0.434 | | <0.00604 |
| *Total Component mg EtCH* | 0.5248 | | N/A |
| | | | |
| **Laproclip / 8886848812 / 1429600004EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clip | <0.0195 | | <0.0105 |
| *Total Component mg EtCH* | 0.0195 | | N/A |
| | | | |
| **Poly Roticulator / 013601 /** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |

| | | | |
|---|---|---|---|
| **1500900003EER** | | | |
| Clamp | <1.43 | | <0.0105 |
| Staples | <0.100 | | <0.00713 |
| *Total Component mg EtCH* | 1.53 | | N/A |
| | | | |
| **Meniscal Stapler / 160510 / 1426500010EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.412 | | <0.0206 |
| Staples | <0.0103 | | <0.0123 |
| *Total Component mg EtCH* | 0.4223 | | N/A |
| | | | |
| **Suture Anchor / 273026 / 1502600002EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.610 | | <0.0207 |
| Suture | <0.0640 | | <0.000486 |
| Anchor | <0.0111 | | <0.00560 |
| *Total Component mg EtCH* | 0.6851 | | N/A |
| | | | |
| **Poly GIA / 030775 / 1500900012EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <1.61 | | <0.0176 |
| Staples | <0.0149 | | <0.000525 |
| *Total Component mg EtCH* | 1.6249 | | N/A |
| | | | |
| **SPSP 55 / 013507L / 1502600005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clamp | <1.60 | | <0.0227 |
| Staples | <0.0430 | | <0.00308 |
| *Total Component mg EtCH* | 1.643 | | N/A |
| | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600003EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <2.51 | | <0.059 |
| Buttress | <0.035 | | <0.001 |
| Staples | <0.010 | | <0.0019 |
| *Total Component mg EtCH* | 2.555 | | N/A |
| | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400003EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.261 | | <0.0155 |

| | | | |
|---|---|---|---|
| Tacks | <0.0219 | | <0.00364 |
| *Total Component mg EtCH* | 0.2829 | | N/A |

-Results that begin with < show no response.

**EtCH Test Results:**

**Sample Set "B", RUN# ZB500130**

| **Device / RO# / Lot#** | **EtCH (mg)** | | **EtCH TCL (mg/cm$^2$)** |
|---|---|---|---|
| | ***Aeration Time (72 Hr):*** | | ***Aeration Time (72 Hr):*** |
| **V-Loc 90 / VLOCM0135 / 1436400006EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.066 | | <0.010 |
| *Total Component mg EtCH* | 0.066 | | N/A |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400009EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.076 | | <0.009 |
| *Total Component mg EtCH* | 0.076 | | N/A |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400015EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.027 | | <0.009 |
| *Total Component mg EtCH* | 0.027 | | N/A |
| | | | |
| **Maxon / 8886626971 / 1436400021EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.086 | | <0.007 |
| *Total Component mg EtCH* | 0.086 | | N/A |
| | | | |
| **Polysorb / L43 / 1436400024EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.032 | | <0.0003 |
| *Total Component mg EtCH* | 0.032 | | N/A |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600002EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Tacks | <0.068 | | <0.00387 |
| Shaft | <0.649 | | <0.0111 |
| *Total Component mg EtCH* | 0.717 | | N/A |
| | | | |
| **Laproclip / 8886848812 / 1429600005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |

| | | | |
|---|---|---|---|
| Clip | <0.013 | | <0.00685 |
| *Total Component mg EtCH* | 0.013 | | N/A |
| | | | |
| **Poly Roticulator / 013601 / 1500900004EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clamp | <1.45 | | <0.0106 |
| Staples | <0.0638 | | <0.00452 |
| *Total Component mg EtCH* | 1.5138 | | N/A |
| | | | |
| **Meniscal Stapler / 160510 / 1426500011EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.398 | | <0.0210 |
| Staples | <0.0119 | | <0.0144 |
| *Total Component mg EtCH* | 0.4099 | | N/A |
| | | | |
| **Suture Anchor / 273026 / 1502600003EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.636 | | <0.0226 |
| Suture | <0.0771 | | <0.000589 |
| Anchor | <0.0214 | | <0.0108 |
| *Total Component mg EtCH* | 0.7345 | | N/A |
| | | | |
| **Poly GIA / 030775 / 1500900009EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <1.60 | | <0.0181 |
| Staples | <0.235 | | <0.00806 |
| *Total Component mg EtCH* | 1.835 | | N/A |
| | | | |
| **SPSP 55 / 013507L / 1502600006EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clamp | <1.49 | | <0.0216 |
| Staples | <0.0688 | | <0.00493 |
| *Total Component mg EtCH* | 1.5588 | | N/A |
| | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600004EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <1.76 | | <0.041 |
| Buttress | <0.040 | | <0.001 |
| Staples | <0.018 | | <0.003 |
| *Total Component mg EtCH* | 1.818 | | N/A |

| | | | |
|---|---|---|---|
| **ReliaTack Reload / RELTACK3X10 / 1432400004EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.295 | | <0.0137 |
| Tacks | <0.0480 | | <0.00804 |
| *Total Component mg EtCH* | 0.343 | | N/A |

-Results that begin with < show no response.

**EtCH Test Results:**

**Sample Set "C", RUN# ZA500136**

| **Device / RO# / Lot#** | **EtCH (mg)** | | **EtCH TCL (mg/cm$^2$)** |
|---|---|---|---|
| | ***Aeration Time (72 Hr):*** | | ***Aeration Time (72 Hr):*** |
| **V-Loc 90 / VLOCM0135 / 1436400007EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.050 | | <0.008 |
| *Total Component mg EtCH* | 0.05 | | N/A |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400010EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.063 | | <0.007 |
| *Total Component mg EtCH* | 0.063 | | N/A |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400016EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.023 | | <0.008 |
| *Total Component mg EtCH* | 0.023 | | N/A |
| | | | |
| **Maxon / 8886626971 / 1436400022EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.067 | | <0.005 |
| *Total Component mg EtCH* | 0.067 | | N/A |
| | | | |
| **Polysorb / L43 / 1436400025EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Suture | <0.027 | | <0.0001 |
| *Total Component mg EtCH* | 0.027 | | N/A |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600003EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Tacks | <0.134 | | <0.00755 |
| Shaft | <0.586 | | <0.00966 |

| | | | |
|---|---|---|---|
| *Total Component mg EtCH* | 0.72 | | N/A |
| | | | |
| **Laproclip / 8886848812 / 1429600006EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clip | <0.0236 | | <0.0127 |
| *Total Component mg EtCH* | 0.0236 | | N/A |
| | | | |
| **Poly Roticulator / 013601 / 1500900005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clamp | <1.47 | | <0.0108 |
| Staples | <0.0840 | | <0.00584 |
| *Total Component mg EtCH* | 1.554 | | N/A |
| | | | |
| **Meniscal Stapler / 160510 / 1426500012EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.283 | | <0.0153 |
| Staples | <0.0173 | | <0.0209 |
| *Total Component mg EtCH* | 0.3003 | | N/A |
| | | | |
| **Suture Anchor / 273026 / 1502600004EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.492 | | <0.0175 |
| Suture | <0.0821 | | <0.000626 |
| Anchor | <0.0195 | | <0.00988 |
| *Total Component mg EtCH* | 0.5936 | | N/A |
| | | | |
| **Poly GIA / 030775 / 1500900010EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <1.55 | | <0.0173 |
| Staples | <0.277 | | <0.00959 |
| *Total Component mg EtCH* | 1.827 | | N/A |
| | | | |
| **SPSP 55 / 013507L / 1502600007EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Clamp | <1.32 | | <0.0196 |
| Staples | <0.0933 | | <0.00661 |
| *Total Component mg EtCH* | 1.4133 | | N/A |
| | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft & Cartridge | <1.79 | | <0.042 |

| | | | |
|---|---|---|---|
| Buttress | <0.044 | | <0.001 |
| Staples | <0.011 | | <0.0020 |
| *Total Component mg EtCH* | 1.845 | | N/A |
| | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400005EER** | **Specification = ≤ 9 mg** | | **Specification = ≤ 5 mg/cm$^2$** |
| Shaft | <0.235 | | <0.0111 |
| Tacks | <0.0393 | | <0.00665 |
| *Total Component mg EtCH* | 0.2743 | | N/A |

-Results that begin with < show no response.

**Blank Sample Test Results:**

**Sample Set "A"**

| **Device / Lot#** | **EtO (mg)** | | **EtO TCL (µg/cm$^2$)** |
|---|---|---|---|
| | ***Blank Samples:*** | | ***Blank Samples:*** |
| **V-Loc 90 / VLOCM0135 / 1436400005EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.001 | | <0.158 |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400008EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.164 |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400014EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0005 | | <0.158 |
| | | | |
| **Maxon / 8886626971 / 1436400020EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.109 |
| | | | |
| **Polysorb / L43 / 1436400023EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0007 | | <0.003 |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600001EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Tacks | <0.0105 | | <0.581 |
| Shaft | <0.0644 | | <1.10 |
| | | | |
| **Laproclip / 8886848812 /** | **Spec = < "No Response"** | | **Spec = < "No Response"** |

| | | | |
|---|---|---|---|
| **1429600004EER** | | | |
| Clip | <0.00173 | | <0.930 |
| | | | |
| **Poly Roticulator / 013601 / 1500900003EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.140 | | <1.03 |
| Staples | <0.00882 | | <0.609 |
| | | | |
| **Meniscal Stapler / 160510 / 1426500010EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0374 | | <1.77 |
| Staples | <0.00173 | | <2.09 |
| | | | |
| **Suture Anchor / 273026 / 1502600002EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0418 | | <1.76 |
| Suture | <0.00254 | | <0.0195 |
| Anchor | <0.00173 | | <0.876 |
| | | | |
| **Poly GIA / 030775 / 1500900012EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft & Cartridge | <0.154 | | <1.93 |
| Staples | <0.0194 | | <0.673 |
| | | | |
| **SPSP 55 / 013507L / 1502600005EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.143 | | <1.86 |
| Staples | <0.00653 | | <0.473 |
| | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600003EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft & Cartridge | <0.219 | | <5.32 |
| Buttress | <0.001 | | <0.048 |
| Staples | <0.001 | | <0.270 |
| | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400003EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0213 | | <1.08 |
| Tacks | <0.00346 | | <0.581 |

**Blank Sample Test Results:**

Sample Set "B"

| Device / Lot# | EtO (mg) | | EtO TCL (µg/cm$^2$) |
|---|---|---|---|
| | *Blank Samples:* | | *Blank Samples:* |
| **V-Loc 90 / VLOCM0135 / 1436400006EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.221 |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400009EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.003 | | <0.340 |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400015EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0006 | | <0.213 |
| | | | |
| **Maxon / 8886626971 / 1436400021EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.003 | | <0.269 |
| | | | |
| **Polysorb / L43 / 1436400024EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.001 | | <0.005 |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600002EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Tacks | <0.0101 | | <0.564 |
| Shaft | <0.0878 | | <1.18 |
| | | | |
| **Laproclip / 8886848812 / 1429600005EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clip | <0.000560 | | <0.301 |
| | | | |
| **Poly Roticulator / 013601 / 1500900004EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.147 | | <1.08 |
| Staples | <0.00505 | | <0.355 |
| | | | |
| **Meniscal Stapler / 160510 / 1426500011EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0513 | | <2.24 |
| Staples | <0.00168 | | <2.03 |
| | | | |
| Suture Anchor / 273026 / | Spec = < "No Response" | | Spec = < "No Response" |

| | | | |
|---|---|---|---|
| **1502600003EER** | | | |
| Shaft | <0.0418 | | <0.670 |
| Suture | <0.00168 | | <0.0129 |
| Anchor | <0.00168 | | <0.851 |
| | | | |
| **Poly GIA / 030775 / 1500900009EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft & Cartridge | <0.159 | | <2.05 |
| Staples | <0.00655 | | <0.218 |
| | | | |
| **SPSP 55 / 013507L / 1502600006EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.141 | | <1.83 |
| Staples | <0.00319 | | <0.230 |
| | | | |
| **Reinforced Reload / EGIATRS60AMT / 1431600004EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft & Cartridge | <0.261 | | <7.04 |
| Buttress | <0.002 | | <0.063 |
| Staples | <0.002 | | <0.347 |
| | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400004EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0184 | | <0.760 |
| Tacks | <0.00504 | | <0.282 |

**Blank Sample Test Results:**

**Sample Set "C"**

| **Device / Lot#** | **EtO (mg)** | | **EtO TCL (µg/cm²)** |
|---|---|---|---|
| | ***Blank Samples:*** | | ***Blank Samples:*** |
| **V-Loc 90 / VLOCM0135 / 1436400007EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.001 | | <0.204 |
| | | | |
| **V-Loc 180 / VLOCL0536 / 1436400010EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.002 | | <0.257 |
| | | | |
| **V-Loc 180 Reload / VLOCA008L / 1436400016EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0006 | | <0.206 |
| | | | |

| | | | |
|---|---|---|---|
| **Maxon / 8886626971 / 1436400022EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.003 | | <0.256 |
| | | | |
| **Polysorb / L43 / 1436400025EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Suture | <0.0010 | | <0.005 |
| | | | |
| **Absorbatack / ABSTACK30 / 1429600003EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Tacks | <0.00873 | | <0.487 |
| Shaft | <0.0907 | | <1.50 |
| | | | |
| **Laproclip / 8886848812 / 1429600006EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clip | <0.00145 | | <0.780 |
| | | | |
| **Poly Roticulator / 013601 / 1500900005EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.117 | | <1.26 |
| Staples | <0.00723 | | <0.511 |
| | | | |
| **Meniscal Stapler / 160510 / 1426500012EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0439 | | <2.35 |
| Staples | <0.00145 | | <1.76 |
| | | | |
| **Suture Anchor / 273026 / 1502600004EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0810 | | <2.64 |
| Suture | <0.00244 | | <0.0186 |
| Anchor | <0.00145 | | <0.734 |
| | | | |
| **Poly GIA / 030775 / 1500900010EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft & Cartridge | <0.182 | | <2.07 |
| Staples | <0.016 | | <0.564 |
| | | | |
| **SPSP 55 / 013507L / 1502600007EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Clamp | <0.159 | | <2.27 |
| Staples | <0.00552 | | <0.396 |
| | | | |

| Reinforced Reload / EGIATRS60AMT / 1431600005EER | Spec = < "No Response" | | Spec = < "No Response" |
|---|---|---|---|
| Shaft & Cartridge | <0.233 | | <5.37 |
| Buttress | <0.002 | | <0.061 |
| Staples | <0.002 | | <0.342 |
| | | | |
| **ReliaTack Reload / RELTACK3X10 / 1432400005EER** | **Spec = < "No Response"** | | **Spec = < "No Response"** |
| Shaft | <0.0369 | | <1.76 |
| Tacks | <0.00863 | | <0.487 |

All EtO/EtCH blank samples tested were acceptable for EtO(mg) and TCL(μg/cm$^2$) to the specifications listed in the protocol showing no response. This shows no initial exposure to EtO, so EtCH was not tested.

**Average & Acceptance Level**

| EtO (mg): Secondary Aeration Specification | | | | | | |
|---|---|---|---|---|---|---|
| **Device** | **Time to Spec (Hr)** | | | **Calculations (Hr)** | | |
| **V-Loc 90** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc 180** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **V-Loc 180 Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Maxon** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Polysorb / L43** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Absorbatack** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |

| | | | | | | |
|---|---|---|---|---|---|---|
| Tacks | 0 | 0 | 0 | 0 | 0 | 0 |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Laproclip** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clip | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Poly Roticulator** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clamp | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Meniscal Stapler** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Suture Anchor** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| Anchor | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Poly GIA** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft & Cartridge | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **SPSP 55** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clamp | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Reinforced Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft & Cartridge | 0 | 0 | 0 | 0 | 0 | 0 |
| Buttress | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **ReliaTack Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| Tacks | 0 | 0 | 0 | 0 | 0 | 0 |
| *Total Component mg EtO* | 0 | 0 | 0 | 0 | 0 | 0 |

**Average & Acceptance Level**

| **EtO TCL (µg/cm2): Secondary Aeration Specification** | | | | | | |
|---|---|---|---|---|---|---|
| **Device** | **Time to Spec (Hr)** | | | **Calculations (Hr)** | | |
| **V-Loc 90** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 31.75731 | 43.38973 | 27.93279 | 34.35994 | 6.57315 | 47.50625 |
| | | | | | | |
| **V-Loc 180** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 75.05767 | 82.91692 | 81.31667 | 79.76376 | 3.39123 | 86.54621 |
| | | | | | | |
| **V-Loc 180 Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 93.89664 | 83.27515 | 79.79833 | 85.65671 | 5.99691 | 97.65054 |
| | | | | | | |
| **Maxon** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 70.74631 | 77.46237 | 72.59062 | 73.59976 | 2.83315 | 79.26607 |
| | | | | | | |
| **Polysorb / L43** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Absorbatack** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Tacks | 0 | 0 | 0 | 0 | 0 | 0 |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **Laproclip** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clip | 0 | 37.77731 | 17.85933 | 18.54555 | 15.43015 | 49.40585 |
| | | | | | | |
| **Poly Roticulator** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clamp | 0 | 2.65772 | 0.00000 | 0.88591 | 1.25286 | 3.39163 |
| Staples | 0 | 92.98181 | 51.73734 | 48.23972 | 38.04015 | 124.32002 |
| | | | | | | |
| **Meniscal Stapler** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |

| | | | | | | |
|---|---|---|---|---|---|---|
| Staples | 144.69387 | 192.08171 | 191.73084 | 176.16881 | 22.25660 | 220.68201 |
| | | | | | | |
| **Suture Anchor** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0.76602 | 0 | 0 | 0.25534 | 0.36111 | 0.97756 |
| Suture | 0 | 0 | 0 | 0 | 0 | 0 |
| Anchor | 65.58216 | 111.74702 | 197.89269 | 125.07396 | 54.83141 | 234.73677 |
| | | | | | | |
| **Poly GIA** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft & Cartridge | 47.74156 | 33.38052 | 36.25740 | 39.12649 | 6.20396 | 51.53441 |
| Staples | 4.30476 | 48.44955 | 43.72672 | 32.16034 | 19.79101 | 71.74237 |
| | | | | | | |
| **SPSP 55** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Clamp | 0 | 4.04892 | 19.44412 | 7.83101 | 8.37642 | 24.58386 |
| Staples | 0 | 54.63859 | 35.99725 | 30.21195 | 22.67813 | 75.56821 |
| | | | | | | |
| **Reinforced Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft & Cartridge | 0 | 0 | 0 | 0 | 0 | 0 |
| Buttress | 0 | 0 | 0 | 0 | 0 | 0 |
| Staples | 0 | 0 | 0 | 0 | 0 | 0 |
| | | | | | | |
| **ReliaTack Reload** | **Set "A"** | **Set "B"** | **Set "C"** | **Average** | **Std. Dev.** | **Avg. + 2 Std. Dev.** |
| Shaft | 0 | 0 | 0 | 0 | 0 | 0 |
| Tacks | 0 | 0 | 0 | 0 | 0 | 0 |

A dissipation curve and acceptance level was not evaluated for EtCH because of the negligible amounts present during testing.

Following secondary aeration V-Loc 180, V-Loc 180 Reload, and Maxon are placed into a vacuum drying oven which further removes the level of EtO/EtCH residuals. In order to determine if required secondary aeration time for these products could be reduced, testing was completed in order evaluate the effects of the vacuum drying process.

Extra samples of V-Loc 180, V-Loc 180 Reload, and Maxon from the Set "A", Set "B", and Set "C" 1X-72Hr boxes were processed through the vacuum drying process following 72Hr of secondary aeration. Samples were then frozen, and the implantable materials tested exhaustively for EtO according to CHEM-033 and ISO10993-7. EtCH was not performed based on acceptance of EtCH levels tested on samples without vacuum drying.

| 72Hr Secondary Aeration with Vacuum Drying |
|---|

| Sample Set "A", RUN# ZA500129 | | | |
|---|---|---|---|
| Device / RO# / Lot# | EtO (mg) | | EtO TCL (µg/cm$^2$) |
| | Spec = ≤ 4 mg | | Spec = ≤ 10 µg/cm2 |
| V-Loc 180 / VLOCL0536 / 1436400008EER | | | |
| Suture | 0.0407 | | 4.79 |
| | | | |
| V-Loc 180 Reload / VLOCA008L / 1436400014EER | | | |
| Suture | 0.015 | | 5.31 |
| | | | |
| Maxon / 8886626971 / 1436400020EER | | | |
| Suture | 0.0763 | | 5.99 |

| 72Hr Secondary Aeration with Vacuum Drying | | | |
|---|---|---|---|
| Sample Set "B", RUN# ZB500130 | | | |
| Device / RO# / Lot# | EtO (mg) | | EtO TCL (µg/cm$^2$) |
| | Spec = ≤ 4 mg | | Spec = ≤ 10 µg/cm2 |
| V-Loc 180 / VLOCL0536 / 1436400009EER | | | |
| Suture | 0.0458 | | 5.4 |
| | | | |
| V-Loc 180 Reload / VLOCA008L / 1436400015EER | | | |
| Suture | 0.0152 | | 5.36 |
| | | | |
| Maxon / 8886626971 / 1436400021EER | | | |
| Suture | 0.0798 | | 6.27 |

| 72Hr Secondary Aeration with Vacuum Drying | | | |
|---|---|---|---|
| Sample Set "C", RUN# ZA500136 | | | |
| Device / RO# / Lot# | EtO (mg) | | EtO TCL (µg/cm$^2$) |
| | Spec = ≤ 4 mg | | Spec = ≤ 10 µg/cm2 |
| V-Loc 180 / VLOCL0536 / 1436400010EER | | | |
| Suture | 0.0392 | | 4.63 |
| | | | |
| V-Loc 180 Reload / VLOCA008L / 1436400016EER | | | |
| Suture | 0.0105 | | 3.72 |
| | | | |
| Maxon / 8886626971 / 1436400022EER | | | |
| Suture | 0.0689 | | 5.41 |

All results across the three lots of V-Loc 180, V-Loc 180 Reload, and Maxon were below the limits as stated by the acceptable specifications of ISO10993-7:2008. Thus a 72 hour minimum secondary aeration time follow by vacuum drying has been proven acceptable for these products.

Upon examination of all test results the minimum secondary aeration time required for evaluated absorbable product following 1X sterilization in the Covidien: North Haven, CT "Combo" cycle is as follows:

| Product | Secondary Aeration Time | Secondary Aeration Room |
|---|---|---|
| V-Loc 90 | 48 Hours = 2 Days | Suture Secondary |
| V-Loc 180 | *72 Hours = 3 Days | Suture Secondary |
| V-Loc 180 Reload | *72 Hours = 3 Days | Suture Secondary |
| Maxon | *72 Hours = 3 Days | Suture Secondary |
| Polysorb | 0 Hours = 0 Days | Suture Secondary |
| Absorbatack | 0 Hours = 0 Days | Polymer Secondary |
| Laproclip | 50 Hours = 2.08 Days | Polymer Secondary |
| Poly Roticulator | 125 Hours = 5.2 Days | Polymer Secondary |
| Meniscal Stapler | 221 Hours = 9.21 Days | Polymer Secondary |
| Suture Anchor | 235 Hours = 9.79 Days | Polymer Secondary |
| Poly GIA | 72 Hours = 3 Days | Polymer Secondary |
| SPSP 55 | 76 Hours = 3.17 Days | Polymer Secondary |
| Reinforced Reload | 0 Hours = 0 Days | Suture Secondary |
| Reliatack Reload | 0 Hours = 0 Days | Polymer Secondary |

*Denotes that vacuum drying is required following secondary aeration.

All EtO residual cycles and cycle review sheets are contained in the EtO Residual Cycle section of the "Final Report Binder A". Copies of the EtO residual results summary sheets are contained within the Residual Summary section of the "Final Report Binder A". All EtO residual results summary sheets, and raw data from absorbable Set "A", Set "B", and Set "C" are contained in the EtO Residual Validation section of the "Final Report Binder C, D, and E" respectively.

## Documentation

The original Final Report Binders will be located in the Covidien Surgical Solutions Technical Services library as a permanent document STE14-028.

# Aeration Validation

## Set "A"

## Sterilization Cycle# ZA500129

# Final Report

COVIDIEN

| Cycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| ZA500129 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/9/2015 | 4:22 | 3/9/2015 | 17:00 |

**Test Description:** North Haven (CT) Parametric Rel Combo Cycle- 6 pallet

| | Specification | Result | Units |
|---|---|---|---|
| - | | | |
| - | | | |
| Chamber | | A | |
| - | | | |
| LOADING | | | |
| load time | 0.05-1.00 | 0.29 | hrs.min |
| - | | | |
| CONDITIONING | | | |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-60 | 23 | minutes |
| nitrogen inject | 11.5-12.5 | 11.9 | inHgA |
| nitrogen inject elapsed time | 5-30 | 13 | minutes |
| vacuum #2 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #2 elapsed time | 5-30 | 9 | minutes |
| time to conditioning | 30-180 | 93 | minutes |
| chamber temperature-min | 80-110 | 94.5 | °F |
| chamber temperature-max | 80-110 | 97.8 | °F |
| chamber moisture-min | 10.0-39.7 | 37.7 | mg/L |
| chamber moisture-max | 10.0-39.7 | 38.2 | mg/L |
| conditioning dwell time | 90-180 | 100 | minutes |
| - | | | |
| CHARGE | | | |
| initial vacuum | 1.5-2.5 | 2.0 | inHgA |
| nitrogen dilution pressure | 4.5-5.5 | 4.6 | inHgA |
| EtO inject pressure | 13.3-14.3 | 14.1 | inHgA |
| EtO inject elapsed time | 5-60 | 26 | minutes |
| EtO gas weight used | 17-29 | 21 | lbs |
| nitrogen blanket pressure | 25.5-27.0 | 26.1 | inHgA |
| nitrogen inject elapsed time | 5-60 | 33 | minutes |
| - | | | |
| EXPOSURE | | | |
| chamber pressure-min | 25.5-27.0 | 26.1 | inHgA |
| chamber pressure-max | 25.5-27.0 | 26.2 | inHgA |
| chamber temperature-min | 88-110 | 96.6 | °F |
| chamber temperature-max | 88-110 | 98.3 | °F |
| time in specification | 10.30-11.00 | 11:00 | hrs.min |
| total exposure time | 10.30-11.00 | 11:00 | hrs.min |
| gas concentration-min | 300-525 | 442.0 | mg/L |
| gas concentration-max | 300-525 | 475.3 | mg/L |
| - | | | |
| EXHAUST | | | |
| vacuum #1 | 4.5-5.5 | 5.0 | inHgA |
| vacuum #1 elapsed time | 15-90 | 32 | minutes |
| - | | | |
| NITROGEN WASH | | | |
| nitrogen inject pressure | 28.0-29.0 | 28.4 | inHgA |
| nitrogen inject elapsed time | 15-45 | 18 | minutes |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-45 | 25 | minutes |
| - | | | |
| AIR WASHES | | | |
| dry air inject #1 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #1 time | 15-45 | 20 | minutes |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-45 | 22 | minutes |
| dry air inject #2 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #2 time | 15-45 | 20 | minutes |
| vacuum #2 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #2 elapsed time | 15-45 | 22 | minutes |

## Final Report

| Cycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| .A500129 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/9/2015 | 4:22 | 3/9/2015 | 17:00 |

| | | | |
|---|---|---|---|
| dry air inject #3 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #3 time | 15-45 | 20 | minutes |
| vacuum #3 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #3 elapsed time | 15-45 | 22 | minutes |
| dry air inject #4 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #4 time | 15-45 | 20 | minutes |
| vacuum #4 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #4 elapsed time | 15-45 | 22 | minutes |
| dry air inject #5 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #5 time | 15-45 | 20 | minutes |
| vacuum #5 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #5 elapsed time | 15-45 | 22 | minutes |
| dry air inject #6 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #6 time | 15-45 | 20 | minutes |
| vacuum #6 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #6 elapsed time | 15-45 | 22 | minutes |
| dry air inject #7 pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject #7 time | 15-45 | 19 | minutes |
| vacuum #7 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #7 elapsed time | 15-45 | 22 | minutes |
| - | | | |
| FINAL AIR BREAK | | | |
| dry air inject pressure | 28.0-30.0 | 29.2 | inHgA |
| dry air inject time | 15-45 | 20 | minutes |
| - | | | |
| PRIMARY AERATION | | | |
| elapsed time | 12.00-48.00 | 12:15 | hrs.min |
| room temperature-min | 95-115 | 105 | °F |
| room temperature-max | 95-115 | 108 | °F |
| circulator running | Yes | Yes | |
| - | | | |
| CHAMBER CYCLE SPEC. | | | |
| circulator running | Yes | Yes | |
| max chamber temperature | 0-110 | 100.8 | °F |

**Results Entered By:** Robert Blake- 4/1/2015 09:04

**Approved By:** NIcole Prego- 4/2/2015 10:28

**Confirmed By:** NIcole Prego - 4/2/2015 10:28

**Data Entry Notes**

Validation Cycle: STE14-028 & STE14-029.
Aeration Sample Set A: 1X & Set A: 1 of 3X.
System timestamps from ETC cycle record do not reflect daylight savings time adjustment.

4/1/2015 9:05:40 AM
thcg\robert.blake

COVIDIEN

COPY

NORTH HAVEN PLANT
STERILIZATION RUN RECORD

| CYCLE #: | ELIGIBILITY TIME: N/A | DATE: N/A |
|---|---|---|
| ZA500129 | CYCLE LOAD TIME: 06:30 | DATE: 3-8-15 |

(CIRCLE ONE) 311

**MECHANICAL (110) TROCAR (210) COMBO (310) CUSTOM KIT (410)** CYCLE NUMBER TYPE VERIFIED BY: CM

STARTING PCR TEMP: N/A STARTING PCR TIME: N/A START PCR DATE: N/A
PCR MIN RH: N/A PCR MIN TEMP: N/A
PCR MAX RH: N/A PCR MAX TEMP: N/A
PALLET PRODUCT LOTS VERIFIED LOAD BY: R.A

| ITEM | SHOP ORDER | SHIPMENT / LOT | QUANTITY | CASES / BINS | MATERIAL |
|---|---|---|---|---|---|
| | | 5013503 | | | |
| STE14- | 028-029 | | | | |
| (SETA: | 1x) | | | | |
| (SETA: | 1 of 3x) | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

R.A

CYCLE START TIME: 06:59 CYCLE START DATE: 3-8-15 ETC RUN #: 110
CYCLE END TIME: ~~03:22~~ RB 04:22 CYCLE END DATE: 3-9-15 PRIMARY START TIME: ~~03:45~~ RB 04:45
PRIMARY END TIME: ~~17:00~~ PRIMARY END DATE: 03-09-15 MIN TEMP: 105 MAX TEMP: 108
SECONDARY END TIME: N/A SECONDARY END DATE: N/A MIN TEMP: N/A MAX TEMP: N/A
REMARKS:

Technician Review: Management Review:

COVIDIEN
60 MIDDLETOWN AVE
NORTH HAVEN, CT
06473
203-492-5000 [T]
203-492-6398 [F]

```
*****************************************************
*                                                   *
*        COVIDIEN                                   *
*                                                   *
*****************************************************
```

CHAMBER 103369-2

DATE: 03/08/2015
TIME: 5:59:20 AM

CYCLE_NUMBER: 311  Last Modification Date/Time: 3/5/2015 9:38:00 AM
CYCLE COUNTER NUMBER: 00000110

LOAD NUMBER 1: ZA500129
LOAD NUMBER 2: 5013503
LOAD NUMBER 3: STE14-028-029
LOAD NUMBER 4: [SETA:1X]
LOAD NUMBER 5: [SETA:10F3X]
LOAD NUMBER 6:

OPERATOR ID NUMBER: 00005016

| | |
|---|---|
| CYCLE TYPE | : EtO |
| Test Vacuum | : Yes |
| Nitrogen Blanket | : Yes |
| Gas Makeup | : N2 |
| Aeration | : No |

| | |
|---|---|
| TEMPERATURE UNIT | : °F |
| PRESURE UNIT | : ''HgA |
| WEIGHT UNIT | : Lbs. |

PHASE 01 STANDBY

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Jacket Start Differential | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 10.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Pounds of EtO To Start | : 50.0 Lbs. |
| Abort Temperature | : 140.0 °F |
| Abort Pressure | : 36.0 ''HgA |
| Diff Temp | : 3.0 °F |
| Steam Valve Duty Cycle | : 2.0 % |
| Internal Recirculation | : YES |
| Door Crack Time | : 00:05:00 |

PHASE 02 INITIAL EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 18.0 °F |
| Vaporizer High Temperature Warning | : 9.0 °F |
| Vaporizer Low Temperature Alarm | : 18.0 °F |
| Vaporizer Low Temperature Warning | : 9.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.[illegible] ''HgA |
| Evacuation Slow Increment Alarm | : 0.[illegible] ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:00:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000058

PHASE 03 STABILIZATION

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 00:01:00 |
| Print Interval | : 00:01:00 |

PHASE 05 INITIAL N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 12.0 ''HgA |
| Injection Pressure Increment Per Minute | : 1.0 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:30:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 11.5 ''HgA |
| Final Pressure Maximum Level | : 12.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 04 LEAK CHECK

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Vacuum Leak Level Alarm | : 0.5 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 00:05:00 |
| Print Interval | : 00:01:00 |

PHASE 06 INITIAL EVACUATION(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000059

PHASE 07 HUMIDIFICATION(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.2 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| End Humidity Low Limit | : 22.7 mg/l |
| End Humidity High Limit | : 66.6 mg/l |
| Cycle Time to Event Minimum | : 01:00:00 |
| Cycle Time to Event Maximum | : 01:30:00 |

PHASE 09 INITIAL EVACUATION(3) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:15:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Maximum | : 00:30:00 |

PHASE 08 HUMIDIFICATION DWELL(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.1 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 01:40:00 |
| Print Interval | : 00:01:00 |
| Humidity Low Limit | : 22.7 mg/l |
| Humidity High Limit | : 66.6 mg/l |
| Low Temperature Minimum | : 107.0 °F |
| High Temperature Maximum | : 131.0 °F |
| Phase Time Minimum | : 00:08:00 |
| Phase Time Maximum | : 00:15:00 |

PHASE 10 INITIAL N2 WASH(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 4.6 ''HgA |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:[illegible] |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:00:01 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000060

| | |
|---|---|
| Phase Time Minimum | : 00:00:01 |
| Phase Time Maximum | : 00:15:00 |

PHASE 11 STERILANT INJECTION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Pressure | : 14.2 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 13.3 ''HgA |
| Final Pressure Maximum Level | : 14.3 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |
| Gas Used Minimum Weight | : 15.0 Lbs. |
| Gas Used Maximum Weight | : 40.0 Lbs. |

PHASE 13 EXPOSURE(1)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

| | |
|---|---|
| Phase Time Maximum | : 00:15:00 |

PHASE 12 N2 BLANKET(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Nitrogen Blanket Pressure | : 26.3 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 25.5 ''HgA |
| Final Pressure Maximum Level | : 27.0 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 14 EXPOSURE(2)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000061

| | |
|---|---|
| Internal Recirculation | : YES |
| Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 650.0 mg/l |
| Phase Time Minimum | : 01:00:00 |
| Phase Time Maximum | : 01:15:00 |
| Time In Specification Minimum | : 01:00:00 |
| Time In Specification Maximum | : 01:15:00 |

PHASE 15 STERILANT REMOVAL Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Removal Vacuum Level | : 5.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 0.8 ''HgA |
| Evacuation Fast Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Rate Stop Level | : 7.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:30:00 |

PHASE 17 POST EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 10:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 525.0 mg/l |
| Phase Time Minimum | : 09:30:00 |
| Phase Time Maximum | : 10:00:00 |
| Time In Specification Minimum | : 09:30:00 |
| Time In Specification Maximum | : 10:00:00 |

PHASE 16 POST N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post N2 Wash Level | : 28.5 ''HgA |
| Injection Pressure Increment Per Minute | : 1.4 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.0 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 18 AIR BACKFILL(1) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.4 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000062

| | |
|---|---|
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 19 POST EVACUATION(2) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:02:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 21 END OF CYCLE

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Internal Recirculation | : YES |

| | |
|---|---|
| Print Interval | : 00:02:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 20 AIR BACKFILL(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000063

**********

INITIAL EVACUATION(1) 03/08/2015 05:59:20

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:00:00 | 0:00:00 | 30.5 | 30.4 | 30.1 | 28.1 | 79.5 | 91.3 | 92.3 | 91.1 | 90.5 | 92.6 | 91.2 | 89.3 | 103.8 | 112.1 | 129.6 | 114.6 | 75.5 | 76.4 | 108.6 | 669.6 | 408.7 | 0.7 |
| | CHAMBER LOW TEMPERATURE WARNING 03/08/2015 05:59:20 | | | | | | | | | | | | | | | | | | | | | | |
| 0:00:00 | 0:00:00 | 30.5 | 30.4 | 30.1 | 28.1 | 79.5 | 91.3 | 92.3 | 91.1 | 90.5 | 92.6 | 91.2 | 89.3 | 103.8 | 112.1 | 129.6 | 114.6 | 75.5 | 76.4 | 108.6 | 669.6 | 408.7 | 0.7 |
| | ALARM SILENCED (ravallone) 03/08/2015 05:59:46 | | | | | | | | | | | | | | | | | | | | | | |
| 0:00:25 | 0:00:25 | 29.6 | 29.5 | 30.1 | 28.1 | 79.7 | 91.2 | 92.5 | 90.7 | 90.4 | 92.8 | 90.7 | 89.2 | 104.7 | 112.6 | 129.5 | 117.6 | 75.5 | 78.5 | 109.3 | 669.7 | 408.7 | 0.7 |
| 0:01:00 | 0:01:00 | 28.8 | 28.7 | 30.1 | 28.1 | 79.7 | 91.2 | 92.7 | 90.5 | 90.5 | 93.0 | 90.5 | 89.2 | 104.2 | 112.5 | 129.4 | 118.3 | 75.6 | 80.5 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:02:00 | 0:02:00 | 27.5 | 27.4 | 30.1 | 27.7 | 78.2 | 91.3 | 92.8 | 90.5 | 90.6 | 93.1 | 90.3 | 89.3 | 104.5 | 113.0 | 129.3 | 118.3 | 75.6 | 82.3 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:03:00 | 0:03:00 | 26.2 | 26.1 | 30.1 | 27.2 | 76.9 | 91.3 | 92.9 | 90.5 | 90.6 | 93.2 | 90.3 | 89.3 | 104.7 | 113.0 | 129.3 | 118.3 | 75.5 | 83.5 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:04:00 | 0:04:00 | 24.9 | 24.8 | 30.1 | 27.2 | 76.6 | 91.4 | 93.0 | 90.6 | 90.7 | 93.4 | 90.5 | 89.5 | 104.6 | 112.6 | 129.2 | 118.2 | 75.5 | 84.3 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:05:00 | 0:05:00 | 23.6 | 23.5 | 30.1 | 27.2 | 76.3 | 91.5 | 93.1 | 90.7 | 90.9 | 93.5 | 90.6 | 89.6 | 104.9 | 113.3 | 129.2 | 118.2 | 75.6 | 84.9 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:06:01 | 0:06:00 | 22.2 | 22.1 | 30.1 | 26.8 | 74.8 | 91.6 | 93.3 | 90.8 | 90.9 | 93.6 | 90.7 | 89.6 | 105.3 | 113.9 | 129.2 | 118.1 | 75.6 | 85.5 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:07:01 | 0:07:01 | 20.9 | 20.8 | 30.1 | 26.3 | 73.4 | 91.7 | 93.3 | 90.9 | 91.0 | 93.7 | 90.8 | 89.7 | 105.5 | 113.8 | 129.1 | 118.0 | 75.6 | 86.0 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:08:01 | 0:08:01 | 19.5 | 19.4 | 30.1 | 25.9 | 72.0 | 91.8 | 93.4 | 90.9 | 91.1 | 93.8 | 90.8 | 89.9 | 105.3 | 113.0 | 129.0 | 117.9 | 75.5 | 86.3 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:09:01 | 0:09:01 | 18.2 | 18.1 | 30.1 | 25.9 | 71.7 | 91.9 | 93.6 | 91.0 | 91.3 | 94.0 | 91.0 | 90.0 | 105.5 | 112.7 | 132.7 | 117.9 | 75.6 | 86.7 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:10:01 | 0:10:01 | 16.9 | 16.8 | 30.1 | 25.9 | 71.5 | 92.0 | 93.7 | 91.1 | 91.3 | 94.1 | 91.1 | 90.1 | 105.2 | 111.9 | 133.2 | 117.8 | 75.6 | 86.9 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:11:01 | 0:11:01 | 15.5 | 15.4 | 30.1 | 25.4 | 70.2 | 92.0 | 93.7 | 91.1 | 91.3 | 94.2 | 91.2 | 90.2 | 104.8 | 110.8 | 133.2 | 117.7 | 75.6 | 87.2 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:12:01 | 0:12:01 | 14.2 | 14.1 | 30.1 | 25.0 | 68.7 | 92.1 | 93.9 | 91.2 | 91.4 | 94.3 | 91.2 | 90.2 | 104.5 | 109.7 | 133.1 | 117.6 | 75.6 | 87.3 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:13:01 | 0:13:01 | 12.8 | 12.7 | 30.1 | 25.0 | 68.6 | 92.2 | 94.0 | 91.3 | 91.5 | 94.4 | 91.3 | 90.3 | 104.2 | 109.1 | 133.2 | 117.6 | 75.6 | 87.5 | 108.5 | 669.6 | 408.8 | 0.7 |
| 0:14:01 | 0:14:01 | 11.4 | 11.4 | 30.1 | 24.5 | 67.1 | 92.4 | 94.2 | 91.4 | 91.6 | 94.5 | 91.3 | 90.3 | 104.1 | 110.2 | 133.1 | 117.5 | 75.6 | 87.6 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:15:01 | 0:15:01 | 10.1 | 10.1 | 30.1 | 24.0 | 65.7 | 92.4 | 94.2 | 91.5 | 91.6 | 94.6 | 91.5 | 90.4 | 104.5 | 112.0 | 133.1 | 117.4 | 75.6 | 87.7 | 108.5 | 669.7 | 408.7 | 0.7 |
| 0:16:02 | 0:16:01 | 8.8 | 8.7 | 30.1 | 23.6 | 64.4 | 92.4 | 94.3 | 91.5 | 91.6 | 94.7 | 91.6 | 90.5 | 105.1 | 113.5 | 133.1 | 117.3 | 75.6 | 87.8 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:17:02 | 0:17:02 | 7.4 | 7.4 | 30.1 | 23.6 | 64.2 | 92.5 | 94.4 | 91.6 | 91.7 | 94.8 | 91.6 | 90.5 | 105.5 | 114.0 | 133.1 | 117.3 | 75.6 | 87.8 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:18:02 | 0:18:02 | 6.1 | 6.1 | 30.1 | 22.7 | 61.6 | 92.6 | 94.5 | 91.6 | 91.8 | 94.9 | 91.7 | 90.6 | 105.8 | 114.1 | 133.1 | 117.2 | 75.6 | 87.8 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:19:02 | 0:19:02 | 4.9 | 4.9 | 30.1 | 22.2 | 60.3 | 92.7 | 94.6 | 91.7 | 91.8 | 95.0 | 91.9 | 90.7 | 105.8 | 113.9 | 133.1 | 117.1 | 75.6 | 87.8 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:20:02 | 0:20:02 | 3.9 | 3.9 | 30.1 | 22.2 | 59.8 | 92.9 | 94.8 | 92.0 | 92.0 | 95.2 | 92.1 | 90.9 | 105.8 | 113.8 | 132.9 | 117.1 | 75.7 | 87.7 | 108.6 | 669.6 | [illegible] | 0.7 |
| 0:21:02 | 0:21:02 | 3.2 | 3.2 | 30.1 | 22.2 | 59.5 | 93.1 | 95.0 | 92.3 | 92.2 | 95.4 | 92.4 | 91.2 | 105.8 | 113.8 | 132.8 | 117.0 | 75.6 | 87.4 | 108.6 | 669.6 | [illegible] | [illegible] |
| 0:22:02 | 0:22:02 | 2.6 | 2.6 | 30.1 | 21.8 | 57.8 | 93.4 | 95.2 | 92.6 | 92.5 | 95.6 | 92.8 | 91.4 | 105.9 | 113.9 | 132.8 | 116.9 | 75.6 | 87.2 | 108.7 | 669.6 | [illegible] | [illegible] |
| 0:23:02 | 0:23:02 | 2.2 | 2.2 | 30.1 | 21.8 | 57.4 | 93.6 | 95.4 | 92.9 | 92.7 | 95.9 | 93.1 | 91.7 | 106.0 | 114.2 | 132.7 | 116.8 | 75.7 | 86.8 | 108.7 | 669.6 | [illegible] | [illegible] |

INITIAL EVACUATION(1) SUMMARY 03/08/2015 06:22:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:34 | 0:23:34 | 2.0 | 2.0 | 30.1 | 21.8 | 57.1 | 93.8 | 95.6 | 93.1 | 92.8 | 96.0 | 93.3 | 91.8 | 104.4 | 108.6 | 132.7 | 116.8 | 75.7 | 86.6 | 108.7 | 669.6 | 408.7 | 0.7 |

START PRESS: 0030.5 MAX PRESS: 0030.5 MAX TEMP: 096.0 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 133.3 MAX GAS TEMP: 075.7
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 089.1 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.4
PRESS CHANGE: 028.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 118.4
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.6

STABILIZATION 03/08/2015 06:22:55

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000064

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:34 | 0:00:00 | 2.0 | 2.0 | 30.1 | 21.8 | 57.1 | 93.8 | 95.6 | 93.1 | 92.8 | 96.0 | 93.3 | 91.8 | 104.4 | 108.6 | 132.7 | 116.8 | 75.7 | 86.6 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:24:34 | 0:01:00 | 2.0 | 2.0 | 30.1 | 22.2 | 57.4 | 94.3 | 96.1 | 93.7 | 93.2 | 96.4 | 93.8 | 92.2 | 104.4 | 108.5 | 132.6 | 116.7 | 75.7 | 86.1 | 108.7 | 669.6 | 408.7 | 0.7 |

STABILIZATION SUMMARY 03/08/2015 06:23:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:34 | 0:01:00 | 2.0 | 2.0 | 30.1 | 22.2 | 57.4 | 94.3 | 96.1 | 93.7 | 93.2 | 96.4 | 93.8 | 92.2 | 104.4 | 108.5 | 132.6 | 116.7 | 75.7 | 86.1 | 108.7 | 669.6 | 408.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0002.0 MAX TEMP: 096.4 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 132.8 MAX GAS TEMP: 075.8
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 091.8 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 132.6 MIN GAS TEMP: 075.6
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.8
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 116.7

LEAK CHECK 03/08/2015 06:23:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:34 | 0:00:00 | 2.0 | 2.0 | 30.1 | 22.2 | 57.4 | 94.3 | 96.1 | 93.7 | 93.2 | 96.4 | 93.8 | 92.2 | 104.4 | 108.5 | 132.6 | 116.7 | 75.7 | 86.1 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:25:34 | 0:01:00 | 2.0 | 2.0 | 30.1 | 22.2 | 56.9 | 94.7 | 96.5 | 94.1 | 93.5 | 96.7 | 94.2 | 92.5 | 104.5 | 108.6 | 132.5 | 116.6 | 75.7 | 85.5 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:26:35 | 0:02:00 | 2.1 | 2.0 | 30.1 | 22.7 | 57.6 | 94.9 | 96.7 | 94.4 | 93.7 | 97.0 | 94.6 | 92.7 | 104.5 | 108.8 | 132.5 | 116.5 | 75.7 | 85.0 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:27:35 | 0:03:00 | 2.1 | 2.0 | 30.1 | 23.1 | 58.2 | 95.2 | 97.0 | 94.7 | 94.0 | 97.3 | 94.9 | 92.9 | 104.7 | 108.9 | 132.5 | 116.5 | 75.8 | 84.4 | 108.7 | 669.6 | 408.8 | 0.7 |
| 0:28:35 | 0:04:00 | 2.1 | 2.1 | 30.1 | 23.1 | 58.0 | 95.4 | 97.1 | 94.9 | 94.1 | 97.4 | 95.1 | 93.1 | 104.8 | 109.5 | 132.5 | 116.4 | 75.8 | 83.9 | 108.8 | 669.6 | 408.7 | 0.7 |

LEAK CHECK SUMMARY 03/08/2015 06:28:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:34 | 0:05:00 | 2.1 | 2.1 | 30.1 | 23.6 | 58.8 | 95.6 | 97.3 | 95.1 | 94.3 | 97.6 | 95.3 | 93.3 | 105.1 | 110.1 | 132.4 | 116.4 | 75.8 | 83.4 | 108.8 | 669.6 | 408.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0002.1 MAX TEMP: 097.6 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 132.6 MAX GAS TEMP: 075.8
END PRESS: 0002.1 MIN PRESS: 0002.0 MIN TEMP: 092.2 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 132.4 MIN GAS TEMP: 075.7
PRESS CHANGE: 000.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 116.3

INITIAL N2 WASH(1) 03/08/2015 06:28:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:35 | 0:00:00 | 2.1 | 2.1 | 30.1 | 23.6 | 58.8 | 95.6 | 97.3 | 95.1 | 94.3 | 97.6 | 95.3 | 93.3 | 105.1 | 110.1 | 132.4 | 116.4 | 75.8 | 83.4 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:30:35 | 0:01:00 | 3.0 | 3.0 | 30.1 | 23.6 | 58.3 | 95.9 | 97.6 | 95.5 | 94.6 | 97.9 | 95.7 | 93.7 | 105.3 | 110.8 | 132.3 | 116.3 | 85.6 | 83.0 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:31:35 | 0:02:00 | 3.9 | 3.8 | 30.1 | 24.0 | 58.9 | 96.2 | 97.8 | 95.8 | 95.0 | 98.1 | 96.0 | 94.0 | 105.6 | 111.5 | 132.3 | 116.2 | 95.4 | 82.6 | 108.8 | 669.7 | 408.7 | 0.7 |
| 0:32:35 | 0:03:00 | 4.8 | 4.7 | 30.1 | 24.5 | 59.7 | 96.4 | 98.0 | 95.9 | 95.3 | 98.3 | 96.0 | 94.3 | 105.7 | 112.0 | 132.3 | 116.1 | 100.9 | 82.3 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:33:35 | 0:04:00 | 5.7 | 5.6 | 30.1 | 24.5 | 59.5 | 96.5 | 98.1 | 95.9 | 95.5 | 98.4 | 96.1 | 94.5 | 106.0 | 112.9 | 132.3 | 115.9 | 103.4 | 82.0 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:34:35 | 0:05:00 | 6.6 | 6.6 | 30.1 | 24.9 | 60.5 | 96.5 | 98.2 | 95.9 | 95.5 | 98.5 | 96.1 | 94.5 | 106.1 | 113.6 | 132.1 | 115.8 | 104.6 | 81.7 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:35:35 | 0:06:00 | 7.6 | 7.5 | 30.1 | 25.0 | 60.6 | 96.5 | 98.2 | 95.9 | 95.4 | 98.6 | 96.1 | 94.5 | 106.1 | 114.2 | 132.1 | 115.7 | 105.1 | 81.4 | 108.8 | 669.6 | 408.7 | 0.7 |
| 0:36:35 | 0:07:01 | 8.5 | 8.4 | 30.1 | 25.0 | 60.5 | 96.5 | 98.2 | 95.9 | 95.5 | 98.5 | 96.0 | 94.4 | 105.9 | 114.2 | 132.0 | 115.6 | 105.4 | 81.1 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:37:35 | 0:08:01 | 9.4 | 9.3 | 30.1 | 24.9 | 60.6 | 96.5 | 98.1 | 95.9 | 95.5 | 98.5 | 96.0 | 94.5 | 105.6 | 113.8 | 132.0 | 115.5 | 105.7 | 80.9 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:38:35 | 0:09:01 | 10.2 | 10.2 | 30.1 | 25.4 | 61.6 | 96.5 | 98.1 | 95.9 | 95.6 | 98.4 | 96.0 | 94.5 | 105.2 | 112.9 | 131.9 | 115.4 | 105.7 | 80.6 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:39:35 | 0:10:01 | 11.2 | 11.1 | 30.1 | 25.4 | 61.7 | 96.5 | 98.1 | 95.9 | 95.6 | 98.4 | 96.0 | 94.5 | 104.6 | 111.1 | 131.8 | 115.2 | 105.7 | 80.4 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:40:36 | 0:11:01 | 12.0 | 11.9 | 30.1 | 25.9 | 62.8 | 96.5 | 98.0 | 95.9 | 95.6 | 98.3 | 96.0 | 94.6 | 104.3 | 109.3 | 131.8 | 115.2 | 105.7 | 80.2 | 108.6 | 669.6 | 408.7 | 0.7 |
| 0:41:36 | 0:12:01 | 12.0 | 11.9 | 30.1 | 25.4 | 62.2 | 96.2 | 97.8 | 95.5 | 95.3 | 98.1 | 95.6 | 94.3 | 104.2 | 108.0 | 131.8 | 115.1 | 102.8 | 80.0 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:42:36 | 0:13:01 | 12.0 | 11.9 | 30.1 | 25.4 | 62.5 | 96.1 | 97.7 | 95.3 | 95.2 | 98.0 | 95.4 | 94.2 | 104.3 | 107.8 | 131.7 | 115.0 | 100.0 | 79.7 | 108.5 | 669.6 | 408.7 | 0.7 |

INITIAL N2 WASH(1) SUMMARY 03/08/2015 06:42:27

| CYCLE | PHASE | PX-1 | PX-2 | PX-4 | CH | CALC. | AVG. | CH1 | CH2 | CH3 | CH1A | CH2A | CH3A | JR | JS | PRHTR | VAP | GAS | MNFLD | MNTR | EO | EO | GAS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000065

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| TIME hh:mm:ss | TIME hh:mm:ss | PRESS (''HgA) | PRESS (''HgA) | PRESS (''HgA) | HUMID (mg/l) | HUMID (%RH) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | DRM1 (Lbs.) | DRM2 (Lbs.) | CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:43:06 | 0:13:31 | 12.0 | 11.9 | 30.1 | 25.8 | 63.6 | 96.0 | 97.6 | 95.3 | 95.2 | 98.0 | 95.4 | 94.2 | 106.2 | 114.3 | 131.7 | 115.0 | 98.7 | 79.6 | 108.5 | 669.6 | 408.7 | 0.7 |

START PRESS: 0002.1 MAX PRESS: 0012.0 MAX TEMP: 098.6 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 132.4 MAX GAS TEMP: 105.7
END PRESS: 0012.0 MIN PRESS: 0002.1 MIN TEMP: 093.3 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 131.7 MIN GAS TEMP: 075.8
PRESS CHANGE: 009.9 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.4
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.9

INITIAL EVACUATION(2) 03/08/2015 06:42:27

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:43:06 | 0:00:00 | 12.0 | 11.9 | 30.1 | 25.8 | 63.6 | 96.0 | 97.6 | 95.3 | 95.2 | 98.0 | 95.4 | 94.2 | 106.2 | 114.3 | 131.7 | 115.0 | 98.7 | 79.6 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:44:06 | 0:01:00 | 10.4 | 10.3 | 30.1 | 24.9 | 62.4 | 95.5 | 97.1 | 94.7 | 94.7 | 97.4 | 94.8 | 93.7 | 105.9 | 114.1 | 131.6 | 114.9 | 96.3 | 82.6 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:45:06 | 0:02:00 | 9.1 | 9.1 | 30.1 | 24.9 | 62.7 | 95.3 | 96.9 | 94.5 | 94.5 | 97.2 | 94.6 | 93.5 | 105.1 | 112.5 | 131.5 | 114.8 | 94.2 | 84.1 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:46:06 | 0:03:00 | 7.8 | 7.8 | 30.1 | 23.6 | 59.5 | 95.2 | 96.8 | 94.4 | 94.4 | 97.1 | 94.5 | 93.4 | 104.4 | 109.9 | 131.4 | 114.8 | 92.3 | 85.2 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:47:06 | 0:04:00 | 6.5 | 6.5 | 30.1 | 23.6 | 59.6 | 95.1 | 96.7 | 94.3 | 94.4 | 97.1 | 94.4 | 93.4 | 104.2 | 107.8 | 131.4 | 114.7 | 90.6 | 86.0 | 108.5 | 669.6 | 408.7 | 0.7 |
| 0:48:06 | 0:05:00 | 5.3 | 5.2 | 30.1 | 23.1 | 58.5 | 95.1 | 96.6 | 94.3 | 94.3 | 97.0 | 94.4 | 93.3 | 104.6 | 108.3 | 131.4 | 114.7 | 89.2 | 86.5 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:49:06 | 0:06:00 | 4.2 | 4.2 | 30.1 | 22.2 | 56.2 | 95.1 | 96.6 | 94.4 | 94.3 | 97.0 | 94.5 | 93.4 | 105.0 | 109.5 | 131.4 | 114.5 | 88.0 | 86.8 | 108.4 | 669.6 | 408.7 | 0.6 |
| 0:50:06 | 0:07:01 | 3.3 | 3.3 | 30.1 | 22.2 | 55.9 | 95.3 | 96.7 | 94.6 | 94.5 | 97.0 | 94.7 | 93.5 | 105.5 | 110.8 | 131.3 | 114.5 | 86.9 | 86.8 | 108.3 | 669.6 | 408.7 | 0.8 |
| 0:51:06 | 0:08:01 | 2.7 | 2.7 | 30.1 | 21.8 | 54.6 | 95.4 | 96.8 | 94.8 | 94.6 | 97.2 | 95.0 | 93.7 | 105.9 | 112.2 | 131.3 | 114.4 | 85.9 | 86.7 | 108.4 | 669.6 | 408.7 | 0.7 |
| 0:52:07 | 0:09:01 | 2.2 | 2.2 | 30.1 | 21.8 | 54.2 | 95.6 | 97.0 | 95.1 | 94.8 | 97.4 | 95.2 | 93.8 | 106.1 | 113.3 | 131.2 | 114.3 | 84.9 | 86.4 | 108.3 | 669.6 | 408.7 | 0.7 |

INITIAL EVACUATION(2) SUMMARY 03/08/2015 06:52:06

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:52:45 | 0:09:40 | 2.0 | 2.0 | 30.1 | 21.8 | 53.9 | 95.8 | 97.2 | 95.3 | 94.9 | 97.5 | 95.5 | 93.9 | 104.1 | 108.3 | 131.2 | 114.3 | 84.4 | 86.2 | 108.3 | 669.6 | 408.7 | 0.7 |

START PRESS: 0012.0 MAX PRESS: 0012.0 MAX TEMP: 098.0 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 131.7 MAX GAS TEMP: 098.7
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 093.3 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 131.1 MIN GAS TEMP: 084.4
PRESS CHANGE: 010.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.0
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.3

HUMIDIFICATION(1) 03/08/2015 06:52:06

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:52:46 | 0:00:00 | 2.0 | 2.0 | 30.1 | 21.8 | 53.9 | 95.8 | 97.2 | 95.3 | 94.9 | 97.5 | 95.5 | 93.9 | 104.1 | 108.3 | 131.2 | 114.3 | 84.4 | 86.2 | 108.3 | 669.6 | 408.7 | 0.7 |
| 0:53:46 | 0:01:00 | 2.3 | 2.3 | 30.1 | 30.9 | 75.8 | 96.1 | 97.3 | 95.8 | 95.2 | 97.7 | 95.9 | 94.2 | 104.6 | 108.1 | 131.2 | 114.3 | 83.8 | 85.7 | 108.3 | 669.6 | 408.7 | 0.7 |
| 0:54:46 | 0:02:00 | 2.5 | 2.5 | 30.1 | 36.8 | 89.8 | 96.3 | 97.5 | 96.1 | 95.3 | 97.8 | 96.3 | 94.4 | 103.9 | 105.4 | 131.1 | 114.2 | 83.1 | 85.0 | 108.3 | 669.6 | 408.7 | 0.7 |
| 0:55:46 | 0:03:00 | 2.6 | 2.6 | 30.1 | 40.9 | 99.4 | 96.4 | 97.5 | 96.3 | 95.5 | 97.8 | 96.4 | 94.5 | 103.6 | 104.7 | 131.0 | 114.1 | 82.6 | 84.4 | 108.2 | 669.6 | 408.7 | 0.7 |
| 0:56:46 | 0:04:00 | 2.7 | 2.7 | 30.1 | 43.6 | 100.0 | 96.4 | 97.5 | 96.3 | 95.5 | 97.8 | 96.6 | 94.6 | 103.3 | 104.4 | 131.0 | 114.1 | 82.1 | 83.8 | 108.2 | 669.6 | 408.7 | 0.7 |
| 0:57:46 | 0:05:00 | 2.8 | 2.8 | 30.1 | 45.4 | 100.0 | 96.5 | 97.5 | 96.5 | 95.6 | 97.8 | 96.6 | 94.6 | 103.1 | 104.3 | 130.9 | 117.3 | 81.6 | 83.2 | 108.9 | 669.6 | 408.7 | 0.7 |
| 0:58:46 | 0:06:00 | 2.9 | 2.8 | 30.1 | 46.8 | 100.0 | 96.6 | 97.5 | 96.6 | 95.7 | 97.8 | 96.7 | 94.7 | 103.0 | 104.1 | 130.9 | 117.6 | 81.2 | 82.7 | 108.7 | 669.6 | 408.7 | 0.7 |
| 0:59:46 | 0:07:01 | 2.9 | 2.9 | 30.1 | 48.6 | 100.0 | 96.6 | 97.4 | 96.6 | 95.7 | 97.8 | 96.8 | 94.7 | 102.8 | 104.1 | 130.8 | 117.5 | 80.8 | 82.2 | 108.7 | 669.6 | 408.8 | 0.8 |
| 1:00:46 | 0:08:01 | 3.0 | 2.9 | 30.1 | 49.5 | 100.0 | 96.6 | 97.4 | 96.6 | 95.7 | 97.7 | 96.8 | 94.7 | 102.7 | 103.8 | 130.8 | 117.5 | 80.5 | 81.8 | 108.7 | 669.6 | 408.7 | 0.7 |
| 1:01:46 | 0:09:01 | 3.0 | 3.0 | 30.1 | 50.4 | 100.0 | 96.6 | 97.4 | 96.7 | 95.8 | 97.7 | 96.7 | 94.7 | 102.5 | 103.8 | 130.7 | 117.3 | 80.1 | 81.4 | 108.7 | 669.6 | 408.7 | 0.7 |
| 1:02:46 | 0:10:01 | 3.1 | 3.0 | 30.1 | 51.3 | 100.0 | 96.6 | 97.4 | 96.7 | 95.8 | 97.6 | 96.8 | 94.7 | 102.3 | 103.6 | 130.6 | 117.3 | 79.9 | 81.0 | 108.6 | 669.6 | 408.7 | 0.7 |
| 1:03:47 | 0:11:01 | 3.1 | 3.1 | 30.1 | 51.8 | 100.0 | 96.7 | 97.3 | 96.8 | 95.9 | 97.6 | 96.8 | 94.7 | 102.2 | 103.4 | 130.6 | 117.3 | 79.6 | 80.8 | 108.7 | 669.6 | 408.7 | 0.7 |

HUMIDIFICATION(1) SUMMARY 03/08/2015 07:03:11

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:03:51 | 0:11:05 | 3.2 | 3.2 | 30.1 | 51.8 | 100.0 | 96.7 | 97.3 | 96.8 | 95.9 | 97.6 | 96.8 | 94.7 | 102.2 | 103.4 | 130.6 | 117.2 | 79.6 | 80.7 | 108.7 | 669.7 | 408.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000066

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

START PRESS: 0002.0 MAX PRESS: 0003.2 MAX TEMP: 097.9 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 131.2 MAX GAS TEMP: 084.4
END PRESS: 0003.2 MIN PRESS: 0002.0 MIN TEMP: 093.9 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 130.5 MIN GAS TEMP: 079.6
PRESS CHANGE: 001.2 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.0

HUMIDIFICATION DWELL(1) 03/08/2015 07:03:11

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:03:51 | 0:00:00 | 3.2 | 3.2 | 30.1 | 51.8 | 100.0 | 96.7 | 97.3 | 96.8 | 95.9 | 97.6 | 96.8 | 94.7 | 102.2 | 103.4 | 130.6 | 117.2 | 79.6 | 80.7 | 108.7 | 669.7 | 408.7 | 0.7 |
| 1:04:51 | 0:01:00 | 3.2 | 3.1 | 30.1 | 52.2 | 100.0 | 96.6 | 97.2 | 96.7 | 95.8 | 97.5 | 96.8 | 94.7 | 102.0 | 103.3 | 130.5 | 117.1 | 79.3 | 80.4 | 108.6 | 669.6 | 408.7 | 0.7 |
| 1:05:51 | 0:02:00 | 3.1 | 3.1 | 30.1 | 51.8 | 100.0 | 96.6 | 97.2 | 96.8 | 95.9 | 97.5 | 96.8 | 94.8 | 101.9 | 103.2 | 130.6 | 117.1 | 79.1 | 80.1 | 108.6 | 669.6 | 408.7 | 0.7 |
| 1:06:51 | 0:03:00 | 3.1 | 3.1 | 30.1 | 50.8 | 100.0 | 96.6 | 97.2 | 96.8 | 95.9 | 97.4 | 96.8 | 94.7 | 101.8 | 103.1 | 130.5 | 117.0 | 79.1 | 79.9 | 108.6 | 669.7 | 408.7 | 0.7 |
| 1:07:51 | 0:04:00 | 3.1 | 3.0 | 30.1 | 49.9 | 100.0 | 96.6 | 97.2 | 96.8 | 95.9 | 97.5 | 96.8 | 94.8 | 101.7 | 102.9 | 130.4 | 117.0 | 78.8 | 79.6 | 108.6 | 669.6 | 408.7 | 0.7 |
| 1:08:51 | 0:05:00 | 3.2 | 3.1 | 30.1 | 51.8 | 100.0 | 96.5 | 97.0 | 96.7 | 95.8 | 97.3 | 96.7 | 94.7 | 101.5 | 102.8 | 130.3 | 116.9 | 78.7 | 79.4 | 108.6 | 669.6 | 408.7 | 0.7 |
| 1:09:51 | 0:06:01 | 3.2 | 3.1 | 30.1 | 50.9 | 100.0 | 96.5 | 97.0 | 96.7 | 95.9 | 97.2 | 96.7 | 94.6 | 101.4 | 102.7 | 130.2 | 116.8 | 78.4 | 79.2 | 108.5 | 669.6 | 408.7 | 0.7 |
| 1:10:51 | 0:07:01 | 3.1 | 3.1 | 30.1 | 50.0 | 100.0 | 96.5 | 97.0 | 96.7 | 95.8 | 97.2 | 96.7 | 94.7 | 101.3 | 102.7 | 130.3 | 116.7 | 78.4 | 79.0 | 108.5 | 669.6 | 408.7 | 0.7 |
| 1:11:51 | 0:08:01 | 3.1 | 3.1 | 30.1 | 49.5 | 100.0 | 96.5 | 97.0 | 96.7 | 95.8 | 97.2 | 96.7 | 94.7 | 101.2 | 102.4 | 130.2 | 116.6 | 78.2 | 78.9 | 108.5 | 669.7 | 408.7 | 0.7 |
| 1:12:51 | 0:09:01 | 3.1 | 3.1 | 30.1 | 48.6 | 100.0 | 96.4 | 96.9 | 96.6 | 95.8 | 97.2 | 96.6 | 94.6 | 101.1 | 102.4 | 130.2 | 116.6 | 78.0 | 78.7 | 108.5 | 669.6 | 408.8 | 0.7 |
| 1:13:52 | 0:10:01 | 3.1 | 3.0 | 30.1 | 47.7 | 100.0 | 96.4 | 96.9 | 96.6 | 95.8 | 97.1 | 96.6 | 94.5 | 101.0 | 103.3 | 130.1 | 116.4 | 77.9 | 78.6 | 108.4 | 669.7 | 408.7 | 0.7 |
| 1:14:52 | 0:11:01 | 3.2 | 3.2 | 30.1 | 50.8 | 100.0 | 96.4 | 96.8 | 96.6 | 95.7 | 97.1 | 96.6 | 94.6 | 102.0 | 105.6 | 130.0 | 116.4 | 77.9 | 78.5 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:15:52 | 0:12:01 | 3.2 | 3.2 | 30.1 | 50.4 | 100.0 | 96.4 | 96.8 | 96.6 | 95.7 | 97.1 | 96.6 | 94.6 | 101.3 | 103.4 | 130.0 | 116.3 | 77.7 | 78.3 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:16:52 | 0:13:01 | 3.2 | 3.2 | 30.1 | 50.0 | 100.0 | 96.4 | 96.8 | 96.7 | 95.8 | 97.1 | 96.7 | 94.6 | 101.2 | 102.7 | 129.9 | 116.3 | 77.7 | 78.2 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:17:52 | 0:14:01 | 3.2 | 3.1 | 30.1 | 49.0 | 100.0 | 96.4 | 96.8 | 96.6 | 95.7 | 97.0 | 96.6 | 94.6 | 101.0 | 102.4 | 129.8 | 116.2 | 77.5 | 78.1 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:18:52 | 0:15:01 | 3.2 | 3.1 | 30.1 | 48.6 | 100.0 | 96.4 | 96.8 | 96.6 | 95.8 | 97.0 | 96.6 | 94.6 | 102.5 | 107.1 | 129.7 | 116.1 | 77.5 | 77.9 | 108.3 | 669.6 | 408.7 | 0.7 |
| 1:19:52 | 0:16:02 | 3.2 | 3.1 | 30.1 | 47.7 | 100.0 | 96.4 | 96.8 | 96.6 | 95.8 | 97.1 | 96.6 | 94.6 | 101.5 | 103.9 | 129.8 | 116.0 | 77.3 | 77.8 | 108.3 | 669.6 | 408.7 | 0.7 |
| 1:20:52 | 0:17:02 | 3.2 | 3.1 | 30.1 | 47.2 | 100.0 | 96.4 | 96.8 | 96.6 | 95.8 | 97.0 | 96.6 | 94.6 | 101.1 | 102.9 | 129.7 | 116.0 | 77.3 | 77.7 | 108.3 | 669.7 | 408.7 | 0.7 |
| 1:21:52 | 0:18:02 | 3.2 | 3.1 | 30.1 | 46.8 | 100.0 | 96.4 | 96.8 | 96.6 | 95.8 | 97.0 | 96.7 | 94.6 | 100.9 | 103.1 | 129.7 | 115.9 | 77.1 | 77.7 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:22:52 | 0:19:02 | 3.2 | 3.1 | 30.1 | 45.9 | 100.0 | 96.4 | 96.8 | 96.6 | 95.9 | 97.1 | 96.7 | 94.7 | 101.9 | 105.6 | 129.7 | 115.8 | 77.1 | 77.6 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:23:53 | 0:20:02 | 3.1 | 3.1 | 30.1 | 45.9 | 100.0 | 96.5 | 96.9 | 96.6 | 95.9 | 97.1 | 96.7 | 94.7 | 101.3 | 103.4 | 129.5 | 115.7 | 77.0 | 77.5 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:24:53 | 0:21:02 | 3.1 | 3.1 | 30.1 | 45.4 | 100.0 | 96.6 | 97.0 | 96.8 | 95.9 | 97.1 | 96.7 | 94.7 | 101.1 | 102.7 | 129.5 | 115.7 | 77.0 | 77.4 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:25:53 | 0:22:02 | 3.1 | 3.1 | 30.1 | 44.9 | 100.0 | 96.6 | 97.0 | 96.8 | 95.9 | 97.2 | 96.7 | 94.7 | 102.2 | 107.9 | 129.5 | 115.6 | 76.8 | 77.4 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:26:53 | 0:23:02 | 3.1 | 3.1 | 30.1 | 44.5 | 100.0 | 96.6 | 97.0 | 96.8 | 95.9 | 97.2 | 96.7 | 94.7 | 101.7 | 104.9 | 129.4 | 115.5 | 76.8 | 77.4 | 108.2 | 669.6 | 408.7 | 0.7 |
| 1:27:53 | 0:24:02 | 3.1 | 3.1 | 30.1 | 44.0 | 100.0 | 96.6 | 97.0 | 96.8 | 95.9 | 97.2 | 96.8 | 94.7 | 101.2 | 103.3 | 129.3 | 115.4 | 76.7 | 77.3 | 108.1 | 669.6 | 408.7 | 0.7 |
| 1:28:53 | 0:25:02 | 3.1 | 3.1 | 30.1 | 43.6 | 100.0 | 96.6 | 97.0 | 96.8 | 95.9 | 97.2 | 96.8 | 94.8 | 101.0 | 103.4 | 129.3 | 115.4 | 76.7 | 77.3 | 108.1 | 669.6 | 408.7 | 0.7 |
| 1:29:53 | 0:26:03 | 3.1 | 3.1 | 30.1 | 43.6 | 100.0 | 96.6 | 97.0 | 96.8 | 96.0 | 97.2 | 96.7 | 94.7 | 101.8 | 105.4 | 129.3 | 115.3 | 76.7 | 77.2 | 108.1 | 669.6 | 408.8 | 0.7 |
| 1:30:53 | 0:27:03 | 3.1 | 3.1 | 30.1 | 43.6 | 100.0 | 96.6 | 97.1 | 96.8 | 96.0 | 97.3 | 96.9 | 94.9 | 101.2 | 103.3 | 129.1 | 115.2 | 76.6 | 77.2 | 108.1 | 669.6 | 408.7 | 0.7 |
| 1:31:53 | 0:28:03 | 3.1 | 3.1 | 30.1 | 42.7 | 100.0 | 96.6 | 97.0 | 96.8 | 96.0 | 97.3 | 96.8 | 94.8 | 101.0 | 102.7 | 129.1 | 115.2 | 76.6 | 77.2 | 108.1 | 669.6 | 408.7 | 0.7 |
| 1:32:53 | 0:29:03 | 3.1 | 3.1 | 30.1 | 42.7 | 100.0 | 96.7 | 97.1 | 96.9 | 96.0 | 97.4 | 96.9 | 94.9 | 102.2 | 106.6 | 129.1 | 115.1 | 76.4 | 77.1 | 108.0 | 669.6 | 408.7 | 0.7 |
| 1:33:54 | 0:30:03 | 3.2 | 3.1 | 30.1 | 42.7 | 100.0 | 96.7 | 97.1 | 96.9 | 96.0 | 97.4 | 96.9 | 94.9 | 101.4 | 103.8 | 129.1 | 115.0 | 76.4 | 77.2 | 108.0 | 669.6 | 408.7 | 0.7 |
| 1:34:54 | 0:31:03 | 3.2 | 3.1 | 30.1 | 42.2 | 100.0 | 96.7 | 97.1 | 96.9 | 96.1 | 97.4 | 96.9 | 94.8 | 101.0 | 102.8 | 129.0 | 115.0 | 76.4 | 77.1 | 108.0 | 669.6 | 408.7 | 0.7 |
| 1:35:54 | 0:32:03 | 3.2 | 3.1 | 30.1 | 42.2 | 100.0 | 96.8 | 97.2 | 97.0 | 96.2 | 97.4 | 96.9 | 94.9 | 102.2 | 107.8 | 131.1 | 115.0 | 76.4 | 77.1 | 108.0 | 669.6 | 408.7 | 0.7 |
| 1:36:54 | 0:33:03 | 3.2 | 3.1 | 30.1 | 42.2 | 100.0 | 96.8 | 97.2 | 97.0 | 96.1 | 97.5 | 97.0 | 94.9 | 101.7 | 104.8 | 133.6 | 114.9 | 76.4 | 77.1 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:37:54 | 0:34:03 | 3.2 | 3.1 | 30.1 | 41.8 | 100.0 | 96.8 | 97.3 | 97.0 | 96.2 | 97.5 | 97.0 | 94.9 | 101.2 | 103.3 | 133.7 | 114.8 | 76.3 | 77.2 | 108.0 | 669.6 | 408.7 | 0.7 |
| 1:38:54 | 0:35:03 | 3.2 | 3.1 | 30.1 | 41.3 | 99.4 | 96.8 | 97.3 | 97.0 | 96.2 | 97.5 | 97.0 | 94.9 | 101.0 | 102.7 | 133.7 | 114.8 | 76.4 | 77.1 | 107.9 | 669.7 | 408.8 | 0.7 |
| 1:39:54 | 0:36:04 | 3.2 | 3.1 | 30.1 | 41.3 | 99.1 | 96.9 | 97.4 | 97.1 | 96.3 | 97.5 | 97.0 | 94.9 | 102.2 | 106.4 | 133.6 | 114.7 | 76.4 | 77.2 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:40:54 | 0:37:04 | 3.2 | 3.2 | 30.1 | 41.3 | 99.1 | 96.9 | 97.4 | 97.1 | 96.3 | 97.5 | 97.0 | 95.1 | 101.3 | 103.8 | 133.5 | 114.6 | 76.3 | 77.2 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:41:54 | 0:38:04 | 3.2 | 3.2 | 30.1 | 41.3 | 99.1 | 96.9 | 97.4 | 97.1 | 96.3 | 97.6 | 97.1 | 95.1 | 101.0 | 102.8 | 133.5 | 114.5 | 76.3 | 77.2 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:42:54 | 0:39:04 | 3.2 | 3.2 | 30.1 | 41.3 | 99.1 | 96.9 | 97.4 | 97.1 | 96.3 | 97.7 | 97.1 | 95.1 | 102.7 | 108.2 | 133.5 | 114.5 | 76.3 | 77.2 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:43:55 | 0:40:04 | 3.2 | 3.2 | 30.1 | 40.9 | 98.0 | 96.9 | 97.4 | 97.1 | 96.3 | 97.7 | 97.1 | 95.1 | 101.6 | 104.7 | 133.5 | 114.4 | 76.3 | 77.2 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:44:55 | 0:41:04 | 3.2 | 3.2 | 30.1 | 40.9 | 97.9 | 97.0 | 97.5 | 97.2 | 96.3 | 97.7 | 97.2 | 95.1 | 101.2 | 103.2 | 133.5 | 114.3 | 76.3 | 77.2 | 107.9 | 669.7 | 408.7 | 0.7 |
| 1:45:55 | 0:42:04 | 3.2 | 3.2 | 30.1 | 40.9 | 97.8 | 97.0 | 97.5 | 97.2 | 96.3 | 97.7 | 97.2 | 95.1 | 101.0 | 102.7 | 133.4 | 114.3 | 76.3 | 77.3 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:46:55 | 0:43:04 | 3.2 | 3.2 | 30.1 | 40.4 | 96.6 | 97.0 | 97.5 | 97.2 | 96.4 | 97.7 | 97.2 | 95.1 | 102.2 | 106.5 | 133.4 | 114.2 | 76.3 | 77.3 | 107.8 | 669.6 | 408.7 | 0.7 |
| 1:47:55 | 0:44:04 | 3.2 | 3.2 | 30.1 | 40.4 | 96.4 | 97.1 | 97.6 | 97.3 | 96.4 | 97.7 | 97.2 | 95.1 | 101.3 | 103.8 | 133.3 | 114.1 | 76.3 | 77.3 | 107.9 | 669.6 | 408.7 | 0.7 |
| 1:48:55 | 0:45:04 | 3.3 | 3.2 | 30.1 | 40.4 | 96.4 | 97.1 | 97.6 | 97.3 | 96.4 | 97.7 | 97.2 | 95.1 | 101.0 | 102.8 | 133.3 | 114.1 | 76.3 | 77.3 | 107.9 | 669.6 | 408.8 | 0.7 |
| 1:49:55 | 0:46:05 | 3.3 | 3.2 | 30.1 | 40.4 | 96.5 | 97.1 | 97.5 | 97.3 | 96.4 | 97.7 | 97.2 | 95.2 | 100.9 | 102.4 | 133.2 | 117.0 | 76.3 | 77.3 | 109.5 | 669.6 | 408.7 | 0.7 |
| 1:50:55 | 0:47:05 | 3.3 | 3.2 | 30.1 | 40.0 | 95.5 | 97.1 | 97.5 | 97.3 | 96.4 | 97.8 | 97.2 | 95.2 | 100.7 | 102.3 | 133.2 | 117.6 | 76.3 | 77.3 | 108.4 | 669.6 | 408.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000067

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:51:55 | 0:48:05 | 3.3 | 3.2 | 30.1 | 40.0 | 95.5 | 97.1 | 97.5 | 97.3 | 96.4 | 97.7 | 97.2 | 95.1 | 100.6 | 102.1 | 133.1 | 117.6 | 76.2 | 77.4 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:52:55 | 0:49:05 | 3.3 | 3.2 | 30.1 | 40.0 | 95.5 | 97.1 | 97.5 | 97.3 | 96.4 | 97.7 | 97.2 | 95.1 | 100.5 | 101.8 | 133.0 | 117.6 | 76.2 | 77.4 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:53:56 | 0:50:05 | 3.3 | 3.3 | 30.1 | 40.0 | 95.5 | 97.0 | 97.5 | 97.2 | 96.4 | 97.7 | 97.2 | 95.2 | 101.0 | 104.3 | 133.0 | 117.5 | 76.2 | 77.4 | 108.4 | 669.7 | 408.7 | 0.7 |
| 1:54:56 | 0:51:05 | 3.3 | 3.3 | 30.1 | 39.5 | 94.5 | 97.0 | 97.4 | 97.2 | 96.4 | 97.6 | 97.2 | 95.1 | 100.8 | 104.8 | 132.9 | 117.4 | 76.2 | 77.4 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:55:56 | 0:52:05 | 3.3 | 3.3 | 30.1 | 39.5 | 94.4 | 97.1 | 97.5 | 97.3 | 96.4 | 97.7 | 97.2 | 95.2 | 101.3 | 104.7 | 132.8 | 117.4 | 76.2 | 77.4 | 108.4 | 669.7 | 408.7 | 0.7 |
| 1:56:56 | 0:53:05 | 3.3 | 3.3 | 30.1 | 39.5 | 94.5 | 97.0 | 97.5 | 97.2 | 96.4 | 97.7 | 97.2 | 95.2 | 100.8 | 102.8 | 132.7 | 117.3 | 76.1 | 77.3 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:57:56 | 0:54:05 | 3.3 | 3.3 | 30.1 | 39.5 | 94.3 | 97.1 | 97.5 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.6 | 102.3 | 132.7 | 117.2 | 76.2 | 77.4 | 108.4 | 669.7 | 408.7 | 0.7 |
| 1:58:56 | 0:55:05 | 3.3 | 3.3 | 30.1 | 39.5 | 94.6 | 97.0 | 97.4 | 97.2 | 96.4 | 97.7 | 97.2 | 95.2 | 100.4 | 102.0 | 132.7 | 117.2 | 76.2 | 77.4 | 108.4 | 669.6 | 408.7 | 0.7 |
| 1:59:56 | 0:56:06 | 3.3 | 3.3 | 30.1 | 39.5 | 94.4 | 97.1 | 97.5 | 97.3 | 96.4 | 97.7 | 97.2 | 95.2 | 101.3 | 104.9 | 132.7 | 117.0 | 76.1 | 77.4 | 108.4 | 669.7 | 408.7 | 0.7 |
| 2:00:56 | 0:57:06 | 3.3 | 3.3 | 30.1 | 39.5 | 94.2 | 97.1 | 97.5 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.7 | 102.9 | 132.6 | 117.0 | 76.2 | 77.3 | 108.4 | 669.6 | 408.8 | 0.7 |
| 2:01:56 | 0:58:06 | 3.3 | 3.3 | 30.1 | 39.5 | 94.3 | 97.1 | 97.5 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.5 | 102.3 | 132.5 | 117.0 | 76.2 | 77.3 | 108.4 | 669.7 | 408.7 | 0.7 |
| 2:02:56 | 0:59:06 | 3.4 | 3.3 | 30.1 | 39.0 | 93.2 | 97.1 | 97.5 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.3 | 101.8 | 132.5 | 116.9 | 76.1 | 77.4 | 108.4 | 669.6 | 408.7 | 0.7 |
| 2:03:57 | 1:00:06 | 3.4 | 3.3 | 30.1 | 39.0 | 93.2 | 97.1 | 97.5 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.2 | 101.8 | 132.5 | 116.8 | 76.1 | 77.3 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:04:57 | 1:01:06 | 3.4 | 3.3 | 30.1 | 39.0 | 93.3 | 97.1 | 97.4 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.0 | 101.6 | 132.4 | 116.7 | 76.1 | 77.3 | 108.3 | 669.6 | 408.8 | 0.7 |
| 2:05:57 | 1:02:06 | 3.4 | 3.3 | 30.1 | 39.0 | 93.3 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 100.0 | 101.5 | 132.4 | 116.6 | 76.1 | 77.3 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:06:57 | 1:03:06 | 3.4 | 3.3 | 30.1 | 39.0 | 93.3 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 99.9 | 101.3 | 132.3 | 116.6 | 76.0 | 77.3 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:07:57 | 1:04:06 | 3.4 | 3.4 | 30.1 | 39.0 | 93.3 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 99.8 | 101.2 | 132.2 | 116.5 | 76.0 | 77.2 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:08:57 | 1:05:06 | 3.4 | 3.4 | 30.1 | 39.0 | 93.6 | 97.0 | 97.3 | 97.2 | 96.4 | 97.6 | 97.2 | 95.2 | 101.4 | 106.4 | 132.2 | 116.4 | 76.1 | 77.2 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:09:57 | 1:06:07 | 3.4 | 3.4 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.7 | 97.2 | 95.2 | 100.5 | 103.2 | 132.1 | 116.4 | 76.0 | 77.1 | 108.2 | 669.6 | 408.7 | 0.7 |
| 2:10:57 | 1:07:07 | 3.4 | 3.4 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 101.5 | 106.0 | 132.0 | 116.3 | 76.0 | 77.1 | 108.3 | 669.6 | 408.7 | 0.7 |
| 2:11:57 | 1:08:07 | 3.5 | 3.4 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 100.7 | 103.3 | 132.0 | 116.3 | 76.0 | 77.1 | 108.2 | 669.6 | 408.7 | 0.7 |
| 2:12:57 | 1:09:07 | 3.5 | 3.4 | 30.1 | 38.6 | 92.1 | 97.1 | 97.5 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 100.3 | 102.2 | 132.0 | 116.1 | 76.0 | 77.0 | 108.2 | 669.7 | 408.7 | 0.7 |
| 2:13:58 | 1:10:07 | 3.5 | 3.4 | 30.1 | 38.6 | 92.0 | 97.1 | 97.5 | 97.4 | 96.5 | 97.6 | 97.2 | 95.2 | 100.2 | 101.8 | 131.8 | 116.1 | 76.0 | 77.0 | 108.2 | 669.7 | 408.7 | 0.7 |
| 2:14:58 | 1:11:07 | 3.5 | 3.4 | 30.1 | 38.6 | 91.9 | 97.2 | 97.5 | 97.4 | 96.6 | 97.6 | 97.2 | 95.2 | 100.0 | 101.5 | 131.8 | 116.0 | 76.0 | 77.0 | 108.2 | 669.6 | 408.8 | 0.7 |
| 2:15:58 | 1:12:07 | 3.5 | 3.4 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.7 | 97.3 | 95.2 | 99.8 | 101.3 | 131.8 | 115.9 | 75.9 | 77.0 | 108.2 | 669.7 | 408.7 | 0.7 |
| 2:16:58 | 1:13:07 | 3.5 | 3.4 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 99.7 | 101.2 | 131.8 | 115.8 | 75.9 | 77.0 | 108.2 | 669.7 | 408.7 | 0.7 |
| 2:17:58 | 1:14:07 | 3.5 | 3.5 | 30.1 | 38.6 | 92.2 | 97.1 | 97.4 | 97.3 | 96.5 | 97.6 | 97.2 | 95.2 | 99.7 | 101.1 | 131.7 | 115.8 | 75.9 | 76.9 | 108.1 | 669.6 | 408.7 | 0.7 |
| 2:18:58 | 1:15:07 | 3.5 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.5 | 101.0 | 131.6 | 115.7 | 75.9 | 76.9 | 108.1 | 669.6 | 408.7 | 0.7 |
| 2:19:58 | 1:16:08 | 3.5 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.4 | 100.9 | 131.6 | 115.7 | 75.9 | 76.8 | 108.0 | 669.6 | 408.7 | 0.7 |
| 2:20:58 | 1:17:08 | 3.5 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.4 | 100.8 | 131.5 | 115.6 | 75.9 | 76.9 | 108.0 | 669.6 | 408.7 | 0.7 |
| 2:21:58 | 1:18:08 | 3.5 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.4 | 97.1 | 95.1 | 100.0 | 104.8 | 131.5 | 115.5 | 75.9 | 76.9 | 108.0 | 669.6 | 408.7 | 0.7 |
| 2:22:58 | 1:19:08 | 3.5 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.4 | 97.1 | 95.1 | 100.5 | 104.3 | 131.5 | 115.4 | 75.8 | 76.8 | 107.9 | 669.6 | 408.7 | 0.7 |
| 2:23:59 | 1:20:08 | 3.6 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.9 | 102.2 | 131.3 | 115.4 | 75.8 | 76.8 | 107.9 | 669.6 | 408.7 | 1.1 |
| 2:24:59 | 1:21:08 | 3.6 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.6 | 101.3 | 131.3 | 115.3 | 75.8 | 76.8 | 107.9 | 669.6 | 408.7 | 0.7 |
| 2:25:59 | 1:22:08 | 3.6 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.5 | 101.1 | 131.3 | 115.2 | 75.8 | 76.8 | 107.9 | 669.6 | 408.8 | 0.7 |
| 2:26:59 | 1:23:08 | 3.6 | 3.5 | 30.1 | 38.6 | 92.3 | 97.0 | 97.3 | 97.3 | 96.5 | 97.4 | 97.1 | 95.1 | 99.3 | 100.8 | 131.3 | 115.1 | 75.8 | 76.7 | 107.9 | 669.6 | 408.7 | 0.7 |
| 2:27:59 | 1:24:08 | 3.6 | 3.6 | 30.1 | 38.6 | 92.3 | 97.0 | 97.2 | 97.3 | 96.5 | 97.4 | 97.2 | 95.1 | 100.2 | 106.2 | 131.3 | 115.1 | 75.8 | 76.8 | 107.9 | 669.6 | 408.7 | 0.7 |
| 2:28:59 | 1:25:08 | 3.6 | 3.6 | 30.1 | 38.1 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.4 | 97.2 | 95.2 | 100.4 | 104.3 | 131.2 | 115.0 | 75.8 | 76.8 | 107.9 | 669.6 | 408.7 | 0.7 |
| 2:29:59 | 1:26:09 | 3.6 | 3.6 | 30.1 | 38.1 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.9 | 102.2 | 131.1 | 115.0 | 75.8 | 76.7 | 107.8 | 669.6 | 408.7 | 0.7 |
| 2:30:59 | 1:27:09 | 3.6 | 3.6 | 30.1 | 38.1 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.6 | 101.3 | 131.1 | 114.9 | 75.7 | 76.7 | 107.8 | 669.6 | 408.7 | 0.7 |
| 2:31:59 | 1:28:09 | 3.6 | 3.6 | 30.1 | 38.2 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 99.5 | 101.1 | 131.0 | 114.9 | 75.8 | 76.7 | 107.8 | 669.7 | 408.7 | 0.7 |
| 2:32:59 | 1:29:09 | 3.7 | 3.6 | 30.1 | 38.1 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.4 | 97.2 | 95.2 | 99.4 | 100.9 | 131.0 | 114.8 | 75.8 | 76.7 | 107.7 | 669.6 | 408.7 | 0.7 |
| 2:34:00 | 1:30:09 | 3.7 | 3.6 | 30.1 | 38.1 | 91.3 | 97.0 | 97.2 | 97.3 | 96.5 | 97.4 | 97.2 | 95.2 | 99.5 | 102.8 | 131.0 | 114.7 | 75.7 | 76.7 | 107.7 | 669.6 | 408.7 | 0.7 |
| 2:35:00 | 1:31:09 | 3.7 | 3.6 | 30.1 | 38.1 | 91.0 | 97.1 | 97.3 | 97.4 | 96.6 | 97.4 | 97.2 | 95.2 | 100.1 | 103.3 | 130.9 | 114.7 | 75.8 | 76.7 | 107.7 | 669.6 | 408.8 | 0.7 |
| 2:36:00 | 1:32:09 | 3.7 | 3.6 | 30.1 | 38.1 | 91.2 | 97.0 | 97.3 | 97.3 | 96.5 | 97.5 | 97.2 | 95.2 | 101.4 | 108.1 | 130.8 | 114.5 | 75.7 | 76.7 | 107.7 | 669.7 | 408.7 | 0.7 |
| 2:37:00 | 1:33:09 | 3.7 | 3.7 | 30.1 | 38.1 | 90.9 | 97.1 | 97.4 | 97.4 | 96.6 | 97.5 | 97.2 | 95.2 | 100.3 | 103.8 | 130.6 | 114.5 | 75.7 | 76.6 | 107.6 | 669.6 | 408.7 | 0.7 |
| 2:38:00 | 1:34:09 | 3.7 | 3.7 | 30.1 | 37.7 | 89.8 | 97.1 | 97.4 | 97.4 | 96.6 | 97.5 | 97.3 | 95.3 | 99.9 | 102.1 | 130.7 | 114.5 | 75.8 | 76.6 | 107.6 | 669.6 | 408.7 | 0.7 |
| 2:39:00 | 1:35:09 | 3.7 | 3.7 | 30.1 | 38.1 | 90.9 | 97.1 | 97.4 | 97.4 | 96.6 | 97.5 | 97.3 | 95.3 | 99.6 | 101.3 | 130.6 | 114.4 | 75.7 | 76.7 | 107.6 | 669.6 | 408.7 | 0.7 |
| 2:40:00 | 1:36:10 | 3.7 | 3.7 | 30.1 | 37.7 | 89.8 | 97.1 | 97.4 | 97.4 | 96.6 | 97.6 | 97.3 | 95.3 | 99.5 | 101.1 | 130.6 | 114.3 | 75.7 | 76.7 | 107.6 | 669.6 | 408.7 | 0.7 |
| 2:41:00 | 1:37:10 | 3.7 | 3.7 | 30.1 | 38.1 | 90.9 | 97.1 | 97.4 | 97.4 | 96.6 | 97.5 | 97.3 | 95.3 | 99.4 | 100.9 | 130.5 | 114.2 | 75.6 | 76.6 | 107.5 | 669.6 | 408.7 | 0.8 |
| 2:42:00 | 1:38:10 | 3.7 | 3.7 | 30.1 | 37.7 | 89.9 | 97.1 | 97.3 | 97.4 | 96.6 | 97.5 | 97.3 | 95.3 | 99.2 | 100.8 | 130.5 | 114.2 | 75.7 | 76.6 | 107.6 | 669.7 | 408.7 | 0.7 |
| 2:43:00 | 1:39:10 | 3.8 | 3.7 | 30.1 | 38.1 | 91.0 | 97.1 | 97.3 | 97.4 | 96.6 | 97.5 | 97.3 | 95.3 | 99.1 | 100.6 | 130.5 | 114.1 | 75.6 | 76.6 | 107.5 | 669.6 | 408.7 | 0.7 |

HUMIDIFICATION DWELL(1) SUMMARY 03/08/2015 08:43:11

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:43:51 | 1:40:00 | 3.8 | 3.7 | 30.1 | 37.7 | 89.9 | 97.1 | 97.3 | 97.4 | 96.6 | 97.5 | 97.3 | 95.2 | 99.0 | 100.4 | 130.4 | 114.3 | 75.6 | 76.7 | 107.7 | 669.6 | 408.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000068

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

START PRESS: 0003.2 MAX PRESS: 0003.8 MAX TEMP: 097.8 DRM1 START: 669.7 DRM2 START: 408.7 MAX PRE TEMP: 133.9 MAX GAS TEMP: 079.6
END PRESS: 0003.8 MIN PRESS: 0003.1 MIN TEMP: 094.5 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.6
PRESS CHANGE: 000.6 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.0

INITIAL EVACUATION(3) 03/08/2015 08:43:11

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:43:51 | 0:00:00 | 3.8 | 3.7 | 30.1 | 37.7 | 89.9 | 97.1 | 97.3 | 97.4 | 96.6 | 97.5 | 97.3 | 95.2 | 99.0 | 100.4 | 130.4 | 114.3 | 75.6 | 76.7 | 107.7 | 669.6 | 408.7 | 0.7 |
| 2:44:51 | 0:01:00 | 3.0 | 3.0 | 30.1 | 35.4 | 85.1 | 96.9 | 97.1 | 97.2 | 96.3 | 97.3 | 97.1 | 95.1 | 103.0 | 112.4 | 130.3 | 117.5 | 75.7 | 79.4 | 108.1 | 669.6 | 408.7 | 0.8 |
| 2:45:51 | 0:02:00 | 2.5 | 2.4 | 30.1 | 32.2 | 77.7 | 96.8 | 97.0 | 97.1 | 96.2 | 97.2 | 97.0 | 94.9 | 102.8 | 111.1 | 130.3 | 117.5 | 75.7 | 81.0 | 108.1 | 669.6 | 408.7 | 0.7 |
| 2:46:51 | 0:03:00 | 2.0 | 2.0 | 30.1 | 30.9 | 74.4 | 96.8 | 97.0 | 97.1 | 96.2 | 97.2 | 97.0 | 94.9 | 102.8 | 110.2 | 130.2 | 117.5 | 75.7 | 81.7 | 108.1 | 669.6 | 408.7 | 0.7 |

INITIAL EVACUATION(3) SUMMARY 03/08/2015 08:46:20

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:47:00 | 0:03:09 | 2.0 | 2.0 | 30.1 | 30.4 | 73.2 | 96.8 | 97.1 | 97.1 | 96.2 | 97.2 | 97.0 | 94.9 | 102.4 | 109.5 | 130.2 | 117.5 | 75.6 | 81.7 | 108.1 | 669.6 | 408.7 | 0.7 |

START PRESS: 0003.8 MAX PRESS: 0003.8 MAX TEMP: 097.5 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 130.4 MAX GAS TEMP: 075.7
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 094.9 DRM1 END: 669.6 DRM2 END: 408.7 MIN PRE TEMP: 130.2 MIN GAS TEMP: 075.6
PRESS CHANGE: 001.8 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.3

INITIAL N2 WASE(2) 03/08/2015 08:46:20

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:47:00 | 0:00:00 | 2.0 | 2.0 | 30.1 | 30.4 | 73.2 | 96.8 | 97.1 | 97.1 | 96.2 | 97.2 | 97.0 | 94.9 | 102.4 | 109.5 | 130.2 | 117.5 | 75.6 | 81.7 | 108.1 | 669.6 | 408.7 | 0.7 |
| 2:48:00 | 0:01:00 | 3.3 | 3.3 | 30.1 | 31.8 | 75.3 | 97.4 | 97.7 | 97.7 | 96.7 | 97.9 | 97.6 | 95.4 | 102.8 | 110.7 | 130.1 | 117.4 | 90.0 | 81.4 | 108.2 | 669.6 | 408.7 | 0.7 |
| CHAMBER LOW TEMPERATURE WARNING RESET 03/08/2015 08:47:45 | | | | | | | | | | | | | | | | | | | | | | | |
| 2:48:25 | 0:01:25 | 3.9 | 3.8 | 30.1 | 32.2 | 75.7 | 97.6 | 98.0 | 97.9 | 97.0 | 98.1 | 97.8 | 95.7 | 104.1 | 112.9 | 130.1 | 117.3 | 96.1 | 81.2 | 108.2 | 669.6 | 408.7 | 0.7 |

INITIAL N2 WASE(2) SUMMARY 03/08/2015 08:48:17

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:48:57 | 0:01:57 | 4.6 | 4.6 | 30.1 | 33.1 | 77.2 | 97.9 | 98.3 | 98.2 | 97.3 | 98.4 | 98.0 | 96.0 | 103.0 | 110.6 | 130.0 | 117.3 | 101.4 | 80.9 | 108.2 | 669.6 | 408.8 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0004.6 MAX TEMP: 098.4 DRM1 START: 669.6 DRM2 START: 408.7 MAX PRE TEMP: 130.2 MAX GAS TEMP: 101.4
END PRESS: 0004.6 MIN PRESS: 0002.0 MIN TEMP: 094.9 DRM1 END: 669.6 DRM2 END: 408.8 MIN PRE TEMP: 130.0 MIN GAS TEMP: 075.6
PRESS CHANGE: 002.6 ETO USED 1: 000.0 ETO USED 2: -000.1 MAX VAP TEMP: 117.5
EO USED PHASE: -000.1 EO USED CYCLE:000.0 MIN VAP TEMP: 117.2

STERILANT INJECTION(1) 03/08/2015 08:48:17

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:48:57 | 0:00:00 | 4.6 | 4.6 | 30.1 | 33.1 | 77.2 | 97.9 | 98.3 | 98.2 | 97.3 | 98.4 | 98.0 | 96.0 | 103.0 | 110.6 | 130.0 | 117.3 | 101.4 | 80.9 | 108.2 | 669.6 | 408.8 | 0.7 |
| 2:49:57 | 0:01:00 | 4.9 | 4.9 | 30.1 | 33.1 | 76.9 | 98.1 | 98.5 | 98.3 | 97.4 | 98.6 | 98.1 | 96.2 | 103.1 | 108.6 | 129.1 | 116.9 | 107.8 | 80.5 | 108.2 | 669.7 | 399.1 | 0.7 |
| 2:50:57 | 0:02:00 | 5.6 | 5.5 | 30.1 | 34.9 | 81.8 | 97.8 | 98.2 | 98.0 | 97.2 | 98.4 | 97.9 | 96.0 | 100.9 | 102.2 | 132.4 | 116.5 | 111.7 | 80.1 | 108.2 | 669.6 | 399.1 | 24.8 |
| 2:51:57 | 0:03:00 | 5.9 | 5.8 | 30.1 | 36.3 | 85.3 | 97.6 | 97.9 | 97.9 | 97.1 | 98.1 | 97.8 | 95.9 | 100.7 | 101.5 | 132.4 | 116.3 | 111.9 | 79.8 | 108.2 | 669.7 | 399.1 | 47.3 |
| 2:52:57 | 0:04:00 | 6.2 | 6.2 | 30.1 | 38.6 | 91.7 | 97.2 | 97.3 | 97.6 | 96.8 | 97.5 | 97.5 | 95.6 | 100.5 | 101.5 | 131.8 | 116.1 | 113.4 | 79.5 | 108.2 | 669.6 | 399.1 | 78.9 |
| 2:53:57 | 0:05:00 | 6.6 | 6.6 | 30.1 | 39.9 | 95.8 | 96.9 | 96.8 | 97.4 | 96.6 | 97.0 | 97.3 | 95.4 | 101.3 | 106.6 | 131.7 | 115.9 | 104.6 | 79.2 | 108.2 | 669.6 | 399.1 | 92.5 |
| 2:54:57 | 0:06:00 | 7.1 | 7.0 | 30.1 | 40.4 | 97.3 | 96.8 | 96.5 | 97.3 | 96.5 | 96.7 | 97.2 | 95.3 | 101.5 | 105.2 | 131.5 | 115.7 | 104.8 | 79.0 | 108.2 | 669.7 | 399.1 | 109.1 |
| 2:55:57 | 0:07:01 | 7.4 | 7.4 | 30.1 | 41.3 | 99.3 | 96.8 | 96.7 | 97.3 | 96.5 | 97.0 | 97.2 | 95.4 | 100.8 | 103.1 | 131.3 | 115.5 | 107.0 | 78.9 | 108.2 | 669.7 | 399.1 | 128.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000069

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:56:57 | 0:08:01 | 7.5 | 7.4 | 30.1 | 42.2 | 100.0 | 96.8 | 96.6 | 97.3 | 96.5 | 96.9 | 97.2 | 95.3 | 101.7 | 105.6 | 131.2 | 115.4 | 110.0 | 78.7 | 108.1 | 669.6 | 399.1 | 148.3 |
| 2:57:57 | 0:09:01 | 7.9 | 7.8 | 30.1 | 43.1 | 100.0 | 96.7 | 96.5 | 97.2 | 96.5 | 96.7 | 97.0 | 95.2 | 101.0 | 103.3 | 131.1 | 115.1 | 107.8 | 78.5 | 108.1 | 669.6 | 399.1 | 166.3 |
| 2:58:58 | 0:10:01 | 8.3 | 8.3 | 30.1 | 43.6 | 100.0 | 96.5 | 96.2 | 97.1 | 96.3 | 96.5 | 96.9 | 95.1 | 102.0 | 106.6 | 130.9 | 114.9 | 105.7 | 78.5 | 108.1 | 669.7 | 399.1 | 185.9 |
| 2:59:58 | 0:11:01 | 8.8 | 8.7 | 30.1 | 44.9 | 100.0 | 96.4 | 96.0 | 97.0 | 96.2 | 96.2 | 96.8 | 94.9 | 101.0 | 103.8 | 130.8 | 114.8 | 102.8 | 78.3 | 108.0 | 669.6 | 399.1 | 207.0 |
| 3:00:58 | 0:12:01 | 9.1 | 9.0 | 30.1 | 45.4 | 100.0 | 96.3 | 95.9 | 96.9 | 96.2 | 96.2 | 96.8 | 95.1 | 102.0 | 107.2 | 130.6 | 114.5 | 97.9 | 78.3 | 108.0 | 669.6 | 399.1 | 222.0 |
| 3:01:58 | 0:13:01 | 9.4 | 9.3 | 30.1 | 45.8 | 100.0 | 96.4 | 96.0 | 96.9 | 96.2 | 96.2 | 96.8 | 94.9 | 101.1 | 103.9 | 130.5 | 114.4 | 107.9 | 78.1 | 108.0 | 669.7 | 399.2 | 240.1 |
| 3:02:58 | 0:14:01 | 9.7 | 9.6 | 30.1 | 46.8 | 100.0 | 96.6 | 96.3 | 97.1 | 96.4 | 96.5 | 96.9 | 95.1 | 101.9 | 107.5 | 130.6 | 114.1 | 107.9 | 78.1 | 107.9 | 669.6 | 399.1 | 255.3 |
| 3:03:58 | 0:15:01 | 10.1 | 10.0 | 30.1 | 47.6 | 100.0 | 96.8 | 96.6 | 97.3 | 96.6 | 96.7 | 97.1 | 95.2 | 101.2 | 104.3 | 130.0 | 116.8 | 106.8 | 77.9 | 109.4 | 669.7 | 396.4 | 273.2 |
| 3:04:58 | 0:16:01 | 10.4 | 10.3 | 30.1 | 48.6 | 100.0 | 96.9 | 96.7 | 97.3 | 96.7 | 96.9 | 97.2 | 95.4 | 100.7 | 103.3 | 129.2 | 117.1 | 106.2 | 77.8 | 108.4 | 669.6 | 394.6 | 291.3 |
| 3:05:58 | 0:17:02 | 10.8 | 10.7 | 30.1 | 49.5 | 100.0 | 97.1 | 96.9 | 97.5 | 96.8 | 97.0 | 97.2 | 95.4 | 101.5 | 105.2 | 131.8 | 116.7 | 106.6 | 77.7 | 108.3 | 669.6 | 393.6 | 311.0 |
| 3:06:58 | 0:18:02 | 11.2 | 11.1 | 30.1 | 50.8 | 100.0 | 97.0 | 96.8 | 97.4 | 96.8 | 97.0 | 97.1 | 95.4 | 100.8 | 103.1 | 132.8 | 116.1 | 110.7 | 77.5 | 108.2 | 669.7 | 393.6 | 333.5 |
| 3:07:58 | 0:19:02 | 11.6 | 11.5 | 30.1 | 51.3 | 100.0 | 97.0 | 96.9 | 97.4 | 96.8 | 97.0 | 97.2 | 95.4 | 101.5 | 105.6 | 132.5 | 115.7 | 109.4 | 77.5 | 108.2 | 669.7 | 393.6 | 353.2 |
| 3:08:59 | 0:20:02 | 11.9 | 11.8 | 30.1 | 52.2 | 100.0 | 97.1 | 97.0 | 97.5 | 96.9 | 97.2 | 97.2 | 95.6 | 100.8 | 103.3 | 132.2 | 115.3 | 109.0 | 77.3 | 108.1 | 669.7 | 393.4 | 371.2 |
| 3:09:59 | 0:21:02 | 12.2 | 12.1 | 30.1 | 52.7 | 100.0 | 97.2 | 97.1 | 97.5 | 96.9 | 97.2 | 97.3 | 95.7 | 100.5 | 102.4 | 131.5 | 115.0 | 107.8 | 77.2 | 108.0 | 669.6 | 390.9 | 392.3 |
| 3:10:59 | 0:22:02 | 12.6 | 12.5 | 30.1 | 53.6 | 100.0 | 97.2 | 97.1 | 97.6 | 97.0 | 97.3 | 97.3 | 95.8 | 100.3 | 101.8 | 130.3 | 114.8 | 106.7 | 77.1 | 108.0 | 669.7 | 387.7 | 413.5 |
| 3:11:59 | 0:23:02 | 12.9 | 12.9 | 30.1 | 54.3 | 100.0 | 97.3 | 97.2 | 97.6 | 97.1 | 97.4 | 97.4 | 95.8 | 100.1 | 101.7 | 129.3 | 114.1 | 107.7 | 77.0 | 107.9 | 669.7 | 387.3 | 434.6 |
| 3:12:59 | 0:24:02 | 13.4 | 13.3 | 30.1 | 55.4 | 100.0 | 97.2 | 97.1 | 97.6 | 97.0 | 97.3 | 97.4 | 95.8 | 99.9 | 101.5 | 130.2 | 116.9 | 107.2 | 76.9 | 109.0 | 669.6 | 387.3 | 455.7 |
| 3:13:59 | 0:25:02 | 13.7 | 13.6 | 30.1 | 55.5 | 100.0 | 97.2 | 97.1 | 97.6 | 97.0 | 97.2 | 97.3 | 95.7 | 99.8 | 101.3 | 133.0 | 116.9 | 110.3 | 76.8 | 108.3 | 669.7 | 387.3 | 476.8 |
| 3:14:59 | 0:26:02 | 14.1 | 14.0 | 30.1 | 56.3 | 100.0 | 97.3 | 97.1 | 97.6 | 97.1 | 97.4 | 97.4 | 95.8 | 99.6 | 101.1 | 132.6 | 116.5 | 110.2 | 76.8 | 108.2 | 669.6 | 387.3 | 496.4 |

STERILANT INJECTION(1) SUMMARY 03/08/2015 09:14:43

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:15:23 | 0:26:26 | 14.2 | 14.1 | 30.1 | 56.3 | 100.0 | 97.3 | 97.2 | 97.6 | 97.1 | 97.3 | 97.4 | 95.8 | 99.6 | 101.1 | 132.4 | 116.3 | 109.7 | 76.8 | 108.2 | 669.7 | 387.3 | 506.9 |

START PRESS: 0004.6 MAX PRESS: 0014.2 MAX TEMP: 098.6 DRM1 START: 669.6 DRM2 START: 408.8 MAX PRE TEMP: 133.0 MAX GAS TEMP: 113.5
END PRESS: 0014.2 MIN PRESS: 0004.6 MIN TEMP: 094.9 DRM1 END: 669.7 DRM2 END: 387.3 MIN PRE TEMP: 128.4 MIN GAS TEMP: 096.4
PRESS CHANGE: 009.6 ETO USED 1: 000.0 ETO USED 2: 021.4 MAX VAP TEMP: 117.3
EO USED PHASE: 021.4 EO USED CYCLE: 021.4 MIN VAP TEMP: 113.9

N2 BLANKET(1) 03/08/2015 09:14:43

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:15:23 | 0:00:00 | 14.2 | 14.1 | 30.1 | 56.3 | 100.0 | 97.3 | 97.2 | 97.6 | 97.1 | 97.3 | 97.4 | 95.8 | 99.6 | 101.1 | 132.4 | 116.3 | 109.7 | 76.8 | 108.2 | 669.7 | 387.3 | 506.9 |
| 3:16:23 | 0:01:00 | 14.6 | 14.4 | 30.1 | 57.2 | 100.0 | 97.4 | 97.2 | 97.7 | 97.2 | 97.4 | 97.4 | 95.9 | 99.5 | 101.0 | 131.8 | 116.1 | 108.1 | 76.7 | 108.2 | 669.7 | 387.3 | 525.0 |
| 3:17:23 | 0:02:00 | 15.0 | 14.9 | 30.1 | 57.2 | 100.0 | 97.4 | 97.3 | 97.7 | 97.2 | 97.4 | 97.4 | 96.0 | 99.3 | 100.8 | 131.4 | 116.0 | 106.6 | 76.6 | 108.1 | 669.6 | 387.3 | 531.0 |
| 3:18:23 | 0:03:00 | 15.3 | 15.2 | 30.1 | 57.2 | 100.0 | 97.4 | 97.3 | 97.7 | 97.3 | 97.4 | 97.5 | 96.0 | 99.2 | 100.7 | 131.1 | 116.0 | 105.5 | 76.5 | 108.0 | 669.7 | 387.2 | 532.6 |
| 3:19:23 | 0:04:00 | 15.7 | 15.6 | 30.1 | 57.2 | 100.0 | 97.5 | 97.3 | 97.8 | 97.3 | 97.5 | 97.5 | 96.1 | 99.1 | 100.6 | 131.0 | 115.8 | 104.6 | 76.5 | 108.0 | 669.7 | 387.3 | 531.1 |
| 3:20:23 | 0:05:00 | 16.0 | 15.9 | 30.1 | 57.2 | 100.0 | 97.5 | 97.3 | 97.8 | 97.4 | 97.5 | 97.6 | 96.1 | 99.0 | 100.4 | 131.0 | 115.8 | 104.1 | 76.5 | 108.0 | 669.6 | 387.3 | 528.0 |
| 3:21:23 | 0:06:01 | 16.4 | 16.3 | 30.1 | 57.2 | 100.0 | 97.5 | 97.4 | 97.8 | 97.4 | 97.5 | 97.5 | 96.0 | 98.9 | 100.4 | 130.9 | 115.8 | 103.5 | 76.5 | 107.9 | 669.7 | 387.2 | 526.5 |
| 3:22:23 | 0:07:01 | 16.7 | 16.6 | 30.1 | 57.2 | 100.0 | 97.5 | 97.4 | 97.8 | 97.4 | 97.6 | 97.6 | 96.1 | 98.8 | 100.3 | 130.8 | 115.6 | 103.2 | 76.5 | 107.9 | 669.6 | 387.2 | 523.5 |
| 3:23:24 | 0:08:01 | 17.1 | 17.0 | 30.1 | 57.2 | 100.0 | 97.5 | 97.4 | 97.8 | 97.4 | 97.5 | 97.5 | 96.1 | 98.7 | 100.1 | 130.7 | 115.5 | 102.8 | 76.4 | 107.9 | 669.7 | 387.2 | 520.6 |
| 3:24:24 | 0:09:01 | 17.5 | 17.4 | 30.1 | 57.2 | 100.0 | 97.6 | 97.5 | 97.8 | 97.5 | 97.6 | 97.6 | 96.2 | 98.6 | 100.1 | 130.6 | 115.5 | 102.7 | 76.4 | 107.9 | 669.6 | 387.2 | 519.1 |
| 3:25:24 | 0:10:01 | 17.9 | 17.8 | 30.1 | 57.2 | 100.0 | 97.5 | 97.4 | 97.8 | 97.4 | 97.5 | 97.5 | 96.2 | 98.5 | 100.0 | 130.5 | 115.4 | 102.3 | 76.4 | 107.8 | 669.6 | 387.2 | 517.5 |
| 3:26:24 | 0:11:01 | 18.2 | 18.1 | 30.1 | 57.2 | 100.0 | 97.6 | 97.4 | 97.9 | 97.5 | 97.6 | 97.6 | 96.2 | 98.5 | 100.0 | 130.5 | 115.3 | 102.3 | 76.4 | 107.8 | 669.6 | 387.3 | 514.5 |
| 3:27:24 | 0:12:01 | 18.6 | 18.5 | 30.1 | 57.2 | 100.0 | 97.7 | 97.5 | 98.0 | 97.6 | 97.5 | 97.6 | 96.2 | 98.4 | 99.9 | 130.4 | 115.2 | 102.1 | 76.4 | 107.7 | 669.7 | 387.3 | 513.0 |
| 3:28:24 | 0:13:01 | 18.9 | 18.8 | 30.1 | 57.7 | 100.0 | 97.6 | 97.4 | 97.9 | 97.5 | 97.5 | 97.6 | 96.2 | 98.4 | 99.8 | 130.4 | 115.1 | 102.0 | 76.4 | 107.7 | 669.7 | 387.3 | 511.5 |
| 3:29:24 | 0:14:01 | 19.3 | 19.2 | 30.1 | 57.7 | 100.0 | 97.6 | 97.4 | 97.9 | 97.6 | 97.5 | 97.6 | 96.2 | 98.2 | 99.6 | 130.3 | 115.0 | 101.7 | 76.4 | 107.6 | 669.7 | 387.2 | 510.0 |
| 3:30:24 | 0:15:01 | 19.6 | 19.5 | 30.1 | 57.7 | 100.0 | 97.7 | 97.5 | 97.9 | 97.6 | 97.5 | 97.6 | 96.3 | 98.2 | 99.6 | 130.2 | 115.0 | 101.6 | 76.4 | 107.6 | 669.6 | 387.3 | 510.0 |
| 3:31:24 | 0:16:02 | 20.1 | 20.0 | 30.1 | 57.7 | 100.0 | 97.7 | 97.5 | 98.0 | 97.6 | 97.6 | 97.7 | 96.3 | 98.1 | 99.5 | 130.1 | 114.8 | 101.3 | 76.4 | 107.6 | 669.7 | 387.2 | 508.5 |
| 3:32:24 | 0:17:02 | 20.4 | 20.3 | 30.1 | 57.7 | 100.0 | 97.7 | 97.5 | 98.0 | 97.6 | 97.6 | 97.7 | 96.3 | 98.0 | 99.4 | 130.1 | 114.8 | 101.2 | 76.4 | 107.5 | 669.7 | 387.2 | 507.0 |
| 3:33:25 | 0:18:02 | 20.8 | 20.7 | 30.1 | 57.7 | 100.0 | 97.7 | 97.5 | 98.0 | 97.6 | 97.6 | 97.7 | 96.4 | 100.4 | 106.6 | 129.9 | 114.7 | 101.0 | 76.4 | 107.5 | 669.7 | 387.2 | 505.4 |
| 3:34:25 | 0:19:02 | 21.1 | 21.0 | 30.1 | 57.6 | 100.0 | 97.8 | 97.6 | 98.1 | 97.7 | 97.7 | 97.7 | 96.4 | 99.0 | 102.3 | 129.9 | 114.6 | 100.9 | 76.4 | 107.5 | 669.7 | 387.3 | 505.4 |
| 3:35:25 | 0:20:02 | 21.5 | 21.4 | 30.1 | 57.7 | 100.0 | 97.8 | 97.6 | 98.1 | 97.8 | 97.7 | 97.8 | 96.4 | 98.6 | 100.8 | 129.7 | 114.5 | 100.8 | 76.4 | 107.4 | 669.7 | 387.3 | 503.9 |
| 3:36:25 | 0:21:02 | 21.8 | 21.7 | 30.1 | 57.7 | 100.0 | 97.8 | 97.6 | 98.1 | 97.8 | 97.7 | 97.7 | 96.4 | 98.4 | 100.2 | 129.7 | 114.5 | 100.7 | 76.4 | 107.4 | 669.7 | 387.3 | 502.4 |
| 3:37:25 | 0:22:02 | 22.2 | 22.1 | 30.1 | 57.7 | 100.0 | 97.8 | 97.6 | 98.1 | 97.8 | 97.7 | 97.9 | 96.5 | 98.3 | 99.9 | 129.7 | 114.3 | 100.6 | 76.4 | 107.4 | 669.6 | 387.3 | 502.4 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000070

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:38:25 | 0:23:02 | 22.5 | 22.4 | 30.1 | 57.7 | 100.0 | 97.8 | 97.6 | 98.1 | 97.8 | 97.7 | 97.8 | 96.5 | 98.2 | 99.7 | 129.6 | 114.3 | 100.4 | 76.4 | 107.3 | 669.7 | 387.2 | 500.9 |
| 3:39:25 | 0:24:02 | 23.0 | 22.9 | 30.1 | 58.1 | 100.0 | 97.9 | 97.6 | 98.2 | 97.9 | 97.8 | 97.9 | 96.6 | 98.1 | 99.6 | 129.5 | 114.2 | 100.2 | 76.4 | 107.3 | 669.6 | 387.2 | 500.9 |
| 3:40:25 | 0:25:02 | 23.3 | 23.2 | 30.1 | 58.1 | 100.0 | 97.9 | 97.6 | 98.2 | 97.8 | 97.7 | 97.8 | 96.6 | 98.0 | 99.5 | 129.4 | 114.1 | 100.2 | 76.3 | 107.2 | 669.7 | 387.3 | 498.0 |
| 3:41:25 | 0:26:03 | 23.7 | 23.6 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 97.9 | 97.8 | 97.9 | 96.6 | 100.6 | 107.8 | 129.4 | 114.1 | 100.0 | 76.3 | 107.3 | 669.6 | 387.3 | 496.4 |
| 3:42:25 | 0:27:03 | 24.0 | 23.9 | 30.1 | 58.1 | 100.0 | 97.9 | 97.7 | 98.2 | 97.9 | 97.9 | 97.9 | 96.6 | 99.2 | 102.7 | 129.3 | 117.3 | 100.2 | 76.3 | 108.0 | 669.6 | 387.2 | 496.4 |
| 3:43:26 | 0:28:03 | 24.4 | 24.3 | 30.1 | 58.6 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 98.6 | 100.9 | 129.3 | 117.6 | 100.6 | 76.2 | 107.7 | 669.7 | 387.3 | 494.9 |
| 3:44:26 | 0:29:03 | 24.8 | 24.6 | 30.1 | 58.6 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 97.9 | 96.7 | 98.4 | 100.2 | 129.2 | 117.5 | 100.8 | 76.2 | 107.7 | 669.6 | 387.3 | 494.9 |
| 3:45:26 | 0:30:03 | 25.1 | 25.0 | 30.1 | 58.5 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 98.2 | 99.8 | 129.2 | 117.4 | 101.0 | 76.3 | 107.7 | 669.7 | 387.3 | 494.8 |
| 3:46:26 | 0:31:03 | 25.5 | 25.4 | 30.1 | 58.5 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.1 | 96.8 | 97.5 | 98.0 | 129.2 | 117.3 | 101.1 | 76.3 | 107.7 | 669.7 | 387.2 | 494.8 |
| 3:47:26 | 0:32:03 | 25.8 | 25.7 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.8 | 97.9 | 96.7 | 96.2 | 94.9 | 129.1 | 117.2 | 101.1 | 76.2 | 107.7 | 669.7 | 387.3 | 493.4 |

N2 BLANKET(1) SUMMARY 03/08/2015 09:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:48:26 | 0:33:03 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 97.9 | 96.7 | 95.5 | 93.5 | 129.1 | 117.2 | 101.2 | 76.1 | 107.6 | 669.6 | 387.3 | 493.3 |

START PRESS: 0014.2 MAX PRESS: 0026.3 MAX TEMP: 098.1 DRM1 START: 669.7 DRM2 START: 387.3 MAX PRE TEMP: 132.4 MAX GAS TEMP: 109.7
END PRESS: 0026.3 MIN PRESS: 0014.2 MIN TEMP: 095.8 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 099.9
PRESS CHANGE: 012.1 ETO USED 1: 000.0 ETO USED 2: 000.1 MAX VAP TEMP: 117.6
EO USED PHASE: 000.1 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

EXPOSURE(1) 03/08/2015 09:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:48:26 | 0:00:00 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 97.9 | 96.7 | 95.5 | 93.5 | 129.1 | 117.2 | 101.2 | 76.1 | 107.6 | 669.6 | 387.3 | 493.3 |
| 3:49:26 | 0:01:00 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 97.8 | 96.6 | 100.3 | 108.6 | 129.0 | 117.1 | 99.8 | 76.1 | 107.6 | 669.7 | 387.3 | 488.8 |
| 3:50:26 | 0:02:00 | 26.3 | 26.1 | 30.1 | 58.5 | 100.0 | 97.9 | 97.6 | 98.2 | 97.9 | 97.7 | 97.9 | 96.6 | 98.2 | 101.6 | 132.4 | 117.0 | 97.7 | 76.1 | 107.6 | 669.7 | 387.2 | 482.7 |
| 3:51:26 | 0:03:00 | 26.3 | 26.1 | 30.1 | 58.1 | 100.0 | 97.9 | 97.6 | 98.2 | 97.9 | 97.8 | 97.9 | 96.6 | 100.7 | 108.9 | 133.7 | 116.9 | 95.9 | 76.1 | 107.6 | 669.7 | 387.2 | 479.8 |
| 3:52:26 | 0:04:00 | 26.3 | 26.1 | 30.1 | 58.1 | 100.0 | 98.0 | 97.7 | 98.2 | 98.0 | 97.8 | 97.9 | 96.7 | 99.0 | 102.7 | 133.5 | 116.9 | 94.3 | 76.1 | 107.7 | 669.7 | 387.2 | 478.3 |
| 3:53:26 | 0:05:00 | 26.3 | 26.1 | 30.1 | 58.1 | 100.0 | 98.0 | 97.7 | 98.2 | 98.0 | 97.8 | 97.9 | 96.7 | 98.4 | 100.6 | 133.5 | 116.8 | 92.8 | 76.0 | 107.6 | 669.7 | 387.3 | 478.3 |
| 3:54:26 | 0:06:00 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.8 | 97.9 | 96.7 | 98.2 | 99.9 | 133.5 | 116.7 | 91.5 | 76.0 | 107.7 | 669.7 | 387.2 | 476.8 |
| 3:55:26 | 0:07:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.2 | 98.0 | 97.8 | 97.9 | 96.7 | 98.1 | 99.6 | 133.5 | 116.7 | 90.4 | 76.0 | 107.6 | 669.7 | 387.3 | 476.8 |
| 3:56:26 | 0:08:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.2 | 98.0 | 97.9 | 97.9 | 96.8 | 97.9 | 99.4 | 133.5 | 116.5 | 89.3 | 76.0 | 107.6 | 669.6 | 387.3 | 476.8 |
| 3:57:26 | 0:09:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.9 | 97.9 | 96.8 | 97.9 | 99.3 | 133.5 | 116.5 | 88.4 | 76.0 | 107.6 | 669.7 | 387.3 | 476.8 |
| 3:58:27 | 0:10:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.8 | 97.9 | 96.7 | 97.7 | 99.2 | 133.4 | 116.4 | 87.5 | 76.0 | 107.6 | 669.7 | 387.3 | 476.8 |
| 3:59:27 | 0:11:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.8 | 97.9 | 96.8 | 97.7 | 99.1 | 133.4 | 116.3 | 86.7 | 76.0 | 107.6 | 669.6 | 387.3 | 476.8 |
| 4:00:27 | 0:12:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.8 | 97.9 | 96.8 | 97.7 | 99.0 | 133.3 | 116.3 | 85.9 | 76.0 | 107.6 | 669.7 | 387.2 | 476.8 |
| 4:01:27 | 0:13:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.1 | 97.8 | 97.9 | 96.7 | 97.5 | 98.9 | 133.3 | 116.2 | 85.3 | 76.0 | 107.6 | 669.7 | 387.3 | 476.8 |
| 4:02:27 | 0:14:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 98.0 | 97.6 | 98.3 | 98.0 | 97.7 | 97.9 | 96.7 | 97.5 | 98.9 | 133.3 | 116.1 | 84.7 | 76.0 | 107.5 | 669.7 | 387.2 | 478.3 |
| 4:03:27 | 0:15:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 97.8 | 96.6 | 97.4 | 98.8 | 133.1 | 116.0 | 84.2 | 75.9 | 107.4 | 669.7 | 387.3 | 478.3 |
| 4:04:27 | 0:16:01 | 26.3 | 26.1 | 30.1 | 58.6 | 100.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 97.9 | 96.6 | 97.4 | 98.8 | 133.0 | 116.0 | 83.6 | 75.9 | 107.4 | 669.7 | 387.2 | 478.3 |
| 4:05:27 | 0:17:02 | 26.3 | 26.1 | 30.1 | 59.0 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.9 | 98.0 | 96.8 | 103.7 | 120.5 | 133.0 | 115.9 | 83.1 | 76.0 | 107.4 | 669.7 | 387.3 | 478.3 |
| 4:06:27 | 0:18:02 | 26.3 | 26.1 | 30.1 | 59.0 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.9 | 103.2 | 115.6 | 133.1 | 115.8 | 82.7 | 76.0 | 107.5 | 669.7 | 387.3 | 478.3 |
| 4:07:27 | 0:19:02 | 26.3 | 26.2 | 30.1 | 59.0 | 100.0 | 98.4 | 98.1 | 98.6 | 98.4 | 98.3 | 98.3 | 97.0 | 99.3 | 102.3 | 133.0 | 115.8 | 82.3 | 76.0 | 107.5 | 669.7 | 387.3 | 478.3 |
| 4:08:28 | 0:20:02 | 26.3 | 26.2 | 30.1 | 59.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.2 | 98.3 | 97.1 | 97.7 | 97.1 | 133.0 | 115.7 | 81.9 | 76.0 | 107.5 | 669.7 | 387.3 | 478.3 |
| 4:09:28 | 0:21:02 | 26.3 | 26.2 | 30.1 | 59.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 97.0 | 97.3 | 96.5 | 133.0 | 115.6 | 81.6 | 75.9 | 107.4 | 669.7 | 387.3 | 478.3 |
| 4:10:28 | 0:22:02 | 26.3 | 26.2 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.3 | 98.0 | 98.2 | 97.0 | 97.5 | 97.5 | 133.0 | 115.5 | 81.3 | 76.0 | 107.5 | 669.6 | 387.3 | 478.3 |
| 4:11:28 | 0:23:02 | 26.3 | 26.1 | 30.1 | 59.0 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.1 | 96.9 | 97.5 | 98.1 | 132.9 | 115.5 | 81.0 | 75.9 | 107.4 | 669.6 | 387.3 | 478.3 |
| 4:12:28 | 0:24:02 | 26.3 | 26.1 | 30.1 | 59.0 | 100.0 | 98.2 | 97.9 | 98.6 | 98.3 | 98.0 | 98.1 | 97.0 | 97.7 | 98.5 | 132.8 | 115.4 | 80.7 | 75.9 | 107.4 | 669.6 | 387.3 | 478.3 |
| 4:13:28 | 0:25:02 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 96.9 | 97.5 | 98.6 | 132.8 | 115.3 | 80.4 | 75.9 | 107.3 | 669.7 | 387.3 | 478.3 |
| 4:14:28 | 0:26:02 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.5 | 98.6 | 132.7 | 115.2 | 80.2 | 75.9 | 107.3 | 669.6 | 387.2 | 478.3 |
| 4:15:28 | 0:27:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.4 | 98.6 | 132.7 | 115.1 | 79.8 | 75.8 | 107.3 | 669.6 | 387.2 | 478.3 |
| 4:16:28 | 0:28:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.3 | 98.6 | 132.6 | 115.0 | 79.6 | 75.8 | 107.3 | 669.7 | 387.2 | 478.3 |
| 4:17:28 | 0:29:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.3 | 98.6 | 132.6 | 115.0 | 79.4 | 75.8 | 107.2 | 669.7 | 387.2 | 478.3 |
| 4:18:29 | 0:30:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.3 | 98.5 | 132.4 | 114.9 | 79.3 | 75.8 | 107.1 | 669.7 | 387.2 | 478.4 |
| 4:19:29 | 0:31:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.8 | 98.0 | 96.8 | 97.3 | 98.6 | 132.4 | 114.9 | 79.1 | 75.7 | 107.1 | 669.7 | 387.3 | 478.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000071

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:20:29 | 0:32:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.8 | 98.0 | 96.8 | 97.1 | 98.5 | 132.4 | 114.8 | 78.8 | 75.7 | 107.1 | 669.7 | 387.3 | 478.3 |
| 4:21:29 | 0:33:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 98.0 | 96.8 | 97.1 | 98.5 | 132.2 | 114.8 | 78.7 | 75.7 | 107.1 | 669.6 | 387.3 | 478.3 |
| 4:22:29 | 0:34:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.8 | 97.1 | 98.5 | 132.2 | 114.7 | 78.6 | 75.7 | 107.0 | 669.7 | 387.2 | 476.8 |
| 4:23:29 | 0:35:03 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.7 | 98.0 | 96.8 | 97.1 | 98.4 | 132.2 | 114.6 | 78.4 | 75.7 | 107.0 | 669.6 | 387.2 | 476.8 |
| 4:24:29 | 0:36:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.1 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 132.1 | 114.5 | 78.3 | 75.7 | 107.0 | 669.6 | 387.2 | 478.3 |
| 4:25:29 | 0:37:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.1 | 97.7 | 97.9 | 96.8 | 96.9 | 98.3 | 132.1 | 114.5 | 78.2 | 75.7 | 107.0 | 669.6 | 387.3 | 476.8 |
| 4:26:29 | 0:38:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.1 | 97.7 | 97.9 | 96.8 | 96.9 | 98.3 | 132.0 | 114.4 | 77.9 | 75.7 | 107.0 | 669.6 | 387.2 | 476.8 |
| 4:27:29 | 0:39:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.1 | 97.7 | 98.0 | 96.8 | 96.8 | 99.1 | 132.0 | 114.3 | 77.9 | 75.7 | 107.0 | 669.6 | 387.3 | 476.7 |
| 4:28:30 | 0:40:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 103.8 | 121.3 | 131.9 | 114.3 | 77.8 | 75.7 | 106.9 | 669.6 | 387.3 | 476.8 |
| 4:29:30 | 0:41:04 | 26.3 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 97.0 | 100.5 | 108.3 | 131.8 | 114.2 | 77.7 | 75.8 | 107.0 | 669.7 | 387.3 | 476.8 |
| 4:30:30 | 0:42:04 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.3 | 98.1 | 98.2 | 97.0 | 97.7 | 98.9 | 131.8 | 114.2 | 77.6 | 75.8 | 107.0 | 669.7 | 387.3 | 476.8 |
| 4:31:30 | 0:43:04 | 26.3 | 26.1 | 30.1 | 60.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 96.9 | 131.7 | 114.1 | 77.5 | 75.8 | 107.0 | 669.6 | 387.3 | 476.8 |
| 4:32:30 | 0:44:04 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.6 | 98.3 | 97.9 | 98.1 | 97.0 | 97.3 | 97.4 | 131.8 | 116.8 | 77.3 | 75.8 | 108.9 | 669.7 | 387.2 | 476.8 |
| 4:33:30 | 0:45:04 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.6 | 98.3 | 97.9 | 98.1 | 97.0 | 97.3 | 97.9 | 131.8 | 117.6 | 77.3 | 75.8 | 107.5 | 669.7 | 387.2 | 476.7 |
| 4:34:30 | 0:46:05 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.3 | 98.2 | 131.7 | 117.6 | 77.2 | 75.8 | 107.5 | 669.6 | 387.3 | 475.3 |
| 4:35:30 | 0:47:05 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 96.9 | 97.3 | 98.4 | 131.6 | 117.6 | 77.1 | 75.9 | 107.5 | 669.7 | 387.2 | 475.3 |
| 4:36:30 | 0:48:05 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.1 | 96.9 | 97.1 | 98.4 | 131.5 | 117.5 | 77.0 | 75.8 | 107.5 | 669.6 | 387.3 | 475.2 |
| 4:37:30 | 0:49:05 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.6 | 98.3 | 97.8 | 98.0 | 96.9 | 97.3 | 98.4 | 131.4 | 117.4 | 77.0 | 75.8 | 107.5 | 669.7 | 387.3 | 475.3 |
| 4:38:31 | 0:50:05 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.8 | 98.0 | 96.9 | 97.1 | 98.4 | 131.3 | 117.3 | 76.8 | 75.8 | 107.4 | 669.6 | 387.2 | 475.3 |
| 4:39:31 | 0:51:05 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 97.1 | 98.3 | 131.3 | 117.3 | 76.8 | 75.9 | 107.5 | 669.7 | 387.3 | 475.3 |
| 4:40:31 | 0:52:05 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 131.3 | 117.2 | 76.7 | 75.8 | 107.4 | 669.7 | 387.3 | 475.2 |
| 4:41:31 | 0:53:05 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 98.0 | 96.8 | 96.9 | 98.3 | 131.4 | 117.1 | 76.7 | 75.8 | 107.4 | 669.7 | 387.3 | 475.2 |
| 4:42:31 | 0:54:05 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 98.0 | 96.9 | 96.9 | 98.3 | 131.3 | 117.1 | 76.6 | 75.8 | 107.4 | 669.6 | 387.3 | 475.3 |
| 4:43:31 | 0:55:05 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 97.9 | 96.8 | 96.8 | 98.2 | 131.3 | 117.0 | 76.4 | 75.8 | 107.4 | 669.6 | 387.2 | 475.3 |
| 4:44:31 | 0:56:06 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.1 | 97.7 | 98.0 | 96.8 | 96.8 | 98.1 | 131.2 | 116.9 | 76.4 | 75.8 | 107.4 | 669.6 | 387.2 | 475.2 |
| 4:45:31 | 0:57:06 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.8 | 98.1 | 131.1 | 116.8 | 76.4 | 75.7 | 107.4 | 669.7 | 387.3 | 475.3 |
| 4:46:31 | 0:58:06 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 96.8 | 98.1 | 131.0 | 116.7 | 76.3 | 75.7 | 107.3 | 669.6 | 387.2 | 475.3 |
| 4:47:31 | 0:59:06 | 26.3 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.9 | 96.8 | 96.6 | 98.0 | 130.9 | 116.7 | 76.2 | 75.7 | 107.4 | 669.6 | 387.2 | 475.3 |

EXPOSURE(1) SUMMARY 03/08/2015 10:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:48:26 | 1:00:00 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.9 | 96.7 | 96.6 | 98.0 | 130.9 | 116.6 | 76.2 | 75.7 | 107.3 | 669.6 | 387.2 | 475.3 |

START PRESS: 0026.3 MAX PRESS: 0026.3 MAX TEMP: 098.3 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.8 MAX GAS TEMP: 101.2
END PRESS: 0026.2 MIN PRESS: 0026.2 MIN TEMP: 096.6 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 128.9 MIN GAS TEMP: 076.1
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

EXPOSURE(2) 03/08/2015 10:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:48:26 | 0:00:00 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.9 | 96.7 | 96.6 | 98.0 | 130.9 | 116.6 | 76.2 | 75.7 | 107.3 | 669.6 | 387.2 | 475.3 |
| 4:49:26 | 0:01:00 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 99.1 | 108.7 | 130.8 | 116.5 | 76.1 | 75.6 | 107.3 | 669.7 | 387.3 | 475.3 |
| 4:50:26 | 0:02:00 | 26.3 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.2 | 97.9 | 98.1 | 96.9 | 104.8 | 124.9 | 130.8 | 116.4 | 76.0 | 75.6 | 107.3 | 669.7 | 387.3 | 473.8 |
| 4:51:26 | 0:03:00 | 26.2 | 26.1 | 30.0 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 100.8 | 108.9 | 130.7 | 116.4 | 76.0 | 75.6 | 107.3 | 669.6 | 387.3 | 475.3 |
| 4:52:26 | 0:04:00 | 26.2 | 26.1 | 30.0 | 59.9 | 100.0 | 98.4 | 98.1 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 98.0 | 99.3 | 130.6 | 116.3 | 76.0 | 75.5 | 107.4 | 669.6 | 387.3 | 473.8 |
| 4:53:26 | 0:05:00 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 96.6 | 130.6 | 116.2 | 75.9 | 75.6 | 107.4 | 669.6 | 387.2 | 473.7 |
| 4:54:26 | 0:06:00 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 97.3 | 130.6 | 116.1 | 75.9 | 75.6 | 107.4 | 669.6 | 387.2 | 473.8 |
| 4:55:26 | 0:07:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.0 | 97.3 | 97.9 | 130.5 | 116.1 | 75.9 | 75.6 | 107.3 | 669.6 | 387.2 | 473.8 |
| 4:56:27 | 0:08:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.3 | 130.5 | 116.0 | 75.8 | 75.6 | 107.4 | 669.7 | 387.3 | 473.8 |
| 4:57:27 | 0:09:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 98.4 | 130.4 | 115.9 | 75.8 | 75.6 | 107.3 | 669.6 | 387.2 | 473.8 |
| 4:58:27 | 0:10:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.6 | 98.4 | 98.0 | 98.1 | 97.0 | 97.3 | 98.5 | 130.3 | 115.8 | 75.8 | 75.6 | 107.3 | 669.6 | 387.3 | 473.8 |
| 4:59:27 | 0:11:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.3 | 98.5 | 130.3 | 115.8 | 75.8 | 75.6 | 107.3 | 669.7 | 387.3 | 473.8 |
| 5:00:27 | 0:12:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.5 | 130.2 | 115.7 | 75.7 | 75.6 | 107.3 | 669.6 | 387.3 | 473.8 |
| 5:01:27 | 0:13:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.6 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.5 | 130.1 | 115.7 | 75.7 | 75.6 | 107.2 | 669.6 | 387.3 | 473.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000072

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5:02:27 | 0:14:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 130.1 | 115.6 | 75.7 | 75.6 | 107.2 | 669.6 | 387.3 | 473.6 |
| 5:03:27 | 0:15:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 130.1 | 115.5 | 75.7 | 75.7 | 107.2 | 669.6 | 387.2 | 473.7 |
| 5:04:27 | 0:16:01 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.8 | 98.1 | 96.9 | 97.1 | 98.3 | 130.0 | 115.5 | 75.6 | 75.7 | 107.2 | 669.6 | 387.3 | 472.2 |
| 5:05:27 | 0:17:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 130.0 | 115.4 | 75.6 | 75.7 | 107.2 | 669.6 | 387.3 | 472.3 |
| 5:06:28 | 0:18:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 130.0 | 115.3 | 75.6 | 75.7 | 107.2 | 669.6 | 387.3 | 473.7 |
| 5:07:28 | 0:19:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.7 | 98.0 | 96.9 | 96.8 | 98.2 | 130.0 | 115.2 | 75.5 | 75.8 | 107.2 | 669.7 | 387.3 | 473.7 |
| 5:08:28 | 0:20:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.8 | 96.8 | 98.1 | 129.9 | 115.2 | 75.6 | 75.8 | 107.1 | 669.6 | 387.3 | 472.3 |
| 5:09:28 | 0:21:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.2 | 97.7 | 98.0 | 96.9 | 96.8 | 98.1 | 129.8 | 115.1 | 75.6 | 75.7 | 107.0 | 669.6 | 387.2 | 472.3 |
| 5:10:28 | 0:22:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 129.7 | 115.0 | 75.4 | 75.7 | 107.0 | 669.6 | 387.3 | 472.3 |
| 5:11:28 | 0:23:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 98.0 | 129.7 | 115.0 | 75.5 | 75.7 | 107.0 | 669.6 | 387.2 | 472.3 |
| 5:12:28 | 0:24:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 129.6 | 114.8 | 75.4 | 75.6 | 107.0 | 669.6 | 387.2 | 472.3 |
| 5:13:28 | 0:25:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 98.0 | 129.6 | 114.9 | 75.5 | 75.7 | 107.0 | 669.7 | 387.2 | 472.3 |
| 5:14:28 | 0:26:02 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 129.5 | 114.8 | 75.4 | 75.6 | 106.9 | 669.6 | 387.2 | 472.2 |
| 5:15:28 | 0:27:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 129.4 | 114.7 | 75.4 | 75.5 | 106.9 | 669.6 | 387.2 | 472.3 |
| 5:16:29 | 0:28:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 100.5 | 112.4 | 129.4 | 114.6 | 75.4 | 75.5 | 106.8 | 669.6 | 387.2 | 472.3 |
| 5:17:29 | 0:29:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 98.0 | 98.1 | 96.9 | 105.1 | 124.8 | 129.3 | 114.5 | 75.3 | 75.5 | 106.9 | 669.6 | 387.2 | 472.3 |
| 5:18:29 | 0:30:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 99.9 | 106.3 | 129.4 | 114.5 | 75.3 | 75.6 | 107.0 | 669.6 | 387.2 | 470.8 |
| 5:19:29 | 0:31:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 97.5 | 98.2 | 129.3 | 114.4 | 75.3 | 75.5 | 106.9 | 669.6 | 387.3 | 472.9 |
| 5:20:29 | 0:32:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 129.3 | 114.3 | 75.3 | 75.6 | 106.9 | 669.6 | 387.2 | 472.2 |
| 5:21:29 | 0:33:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 97.5 | 129.3 | 114.3 | 75.2 | 75.5 | 106.9 | 669.6 | 387.2 | 472.3 |
| 5:22:29 | 0:34:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 98.0 | 129.2 | 114.2 | 75.3 | 75.6 | 106.9 | 669.6 | 387.2 | 470.8 |
| 5:23:29 | 0:35:03 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 98.3 | 129.1 | 114.2 | 75.3 | 75.6 | 106.9 | 669.6 | 387.3 | 470.8 |
| 5:24:29 | 0:36:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.3 | 98.4 | 129.0 | 114.1 | 75.3 | 75.6 | 106.9 | 669.6 | 387.2 | 470.8 |
| 5:25:29 | 0:37:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 97.9 | 98.1 | 97.0 | 97.3 | 98.4 | 132.9 | 116.5 | 75.3 | 75.6 | 109.0 | 669.6 | 387.3 | 470.8 |
| 5:26:30 | 0:38:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.6 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 133.5 | 117.6 | 75.3 | 75.6 | 107.4 | 669.6 | 387.2 | 470.8 |
| 5:27:30 | 0:39:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 133.4 | 117.6 | 75.3 | 75.6 | 107.3 | 669.6 | 387.2 | 470.8 |
| 5:28:30 | 0:40:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 133.5 | 117.6 | 75.3 | 75.7 | 107.4 | 669.6 | 387.2 | 470.7 |
| 5:29:30 | 0:41:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 133.4 | 117.5 | 75.3 | 75.7 | 107.4 | 669.6 | 387.2 | 470.8 |
| 5:30:30 | 0:42:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 133.4 | 117.5 | 75.3 | 75.7 | 107.4 | 669.6 | 387.3 | 470.8 |
| 5:31:30 | 0:43:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.3 | 133.4 | 117.4 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.7 |
| 5:32:30 | 0:44:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.1 | 97.0 | 96.8 | 98.1 | 133.4 | 117.2 | 75.2 | 75.7 | 107.4 | 669.6 | 387.2 | 470.8 |
| 5:33:30 | 0:45:04 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.8 | 98.1 | 96.9 | 96.8 | 98.1 | 133.2 | 117.2 | 75.2 | 75.6 | 107.3 | 669.6 | 387.2 | 470.8 |
| 5:34:30 | 0:46:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 133.2 | 117.2 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.8 |
| 5:35:30 | 0:47:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 133.2 | 117.0 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.7 |
| 5:36:30 | 0:48:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 133.1 | 116.9 | 75.2 | 75.6 | 107.3 | 669.6 | 387.2 | 470.7 |
| 5:37:31 | 0:49:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 133.1 | 116.9 | 75.2 | 75.6 | 107.3 | 669.6 | 387.2 | 470.8 |
| 5:38:31 | 0:50:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 133.1 | 116.9 | 75.2 | 75.7 | 107.4 | 669.6 | 387.3 | 470.8 |
| 5:39:31 | 0:51:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.9 | 133.0 | 116.7 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.8 |
| 5:40:31 | 0:52:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.8 | 96.4 | 97.8 | 133.0 | 116.7 | 75.2 | 75.6 | 107.3 | 669.6 | 387.2 | 470.7 |
| 5:41:31 | 0:53:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 133.0 | 116.6 | 75.1 | 75.6 | 107.3 | 669.6 | 387.2 | 470.7 |
| 5:42:31 | 0:54:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 132.9 | 116.6 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.7 |
| 5:43:31 | 0:55:05 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 96.3 | 97.8 | 132.8 | 116.5 | 75.1 | 75.6 | 107.2 | 669.6 | [illegible] | 470.7 |
| 5:44:31 | 0:56:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.5 | 97.8 | 96.7 | 96.4 | 97.8 | 132.7 | 116.5 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 470.7 |
| 5:45:31 | 0:57:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.5 | 97.8 | 96.7 | 96.3 | 98.6 | 132.6 | 116.3 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 470.8 |
| 5:46:31 | 0:58:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 103.2 | 120.7 | 132.6 | 116.3 | 75.1 | 75.5 | 107.2 | 669.6 | 387.2 | 469.3 |
| 5:47:32 | 0:59:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 98.0 | 98.4 | 98.3 | 98.1 | 98.2 | 97.0 | 102.9 | 116.6 | 132.6 | 116.2 | 75.1 | 75.6 | 107.3 | 669.6 | 387.2 | 470.8 |
| 5:48:32 | 1:00:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 98.7 | 102.1 | 132.5 | 116.1 | 75.2 | 75.6 | 107.3 | 669.6 | 387.3 | 469.2 |
| 5:49:32 | 1:01:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 132.5 | 116.1 | 75.2 | 75.6 | 107.3 | 669.6 | 387.2 | 469.2 |
| 5:50:32 | 1:02:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 97.2 | 132.5 | 115.9 | 75.1 | 75.6 | 107.3 | 669.6 | 387.3 | 469.3 |
| 5:51:32 | 1:03:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 97.7 | 132.4 | 115.9 | 75.1 | 75.6 | 107.3 | 669.6 | 387.3 | 469.3 |
| 5:52:32 | 1:04:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.1 | 132.4 | 115.8 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 469.3 |
| 5:53:32 | 1:05:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.3 | 132.4 | 115.7 | 75.1 | 75.6 | 107.3 | 669.6 | 387.2 | 469.3 |
| 5:54:32 | 1:06:06 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.3 | 132.3 | 115.7 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 469.3 |
| 5:55:32 | 1:07:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.4 | 132.3 | 115.6 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 469.3 |
| 5:56:33 | 1:08:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.3 | 132.1 | 115.5 | 75.0 | 75.6 | 107.1 | 669.6 | 387.2 | 469.3 |
| 5:57:33 | 1:09:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 132.0 | 115.5 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 469.2 |
| 5:58:33 | 1:10:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 132.0 | 115.4 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 469.2 |
| 5:59:33 | 1:11:07 | 26.2 | 26.1 | 30.0 | 60.8 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.9 | 98.2 | 131.8 | 115.3 | 75.0 | 75.4 | 107.0 | 669.6 | 387.2 | 469.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000073

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:00:33 | 1:12:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 98.0 | 96.9 | 96.8 | 98.2 | 131.8 | 115.2 | 75.1 | 75.4 | 107.0 | 669.6 | 387.3 | 469.3 |
| 6:01:33 | 1:13:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 131.8 | 115.2 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 469.2 |
| 6:02:33 | 1:14:07 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 131.8 | 115.1 | 75.0 | 75.4 | 107.0 | 669.6 | 387.2 | 469.3 |
| 6:03:33 | 1:15:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.7 | 98.0 | 96.9 | 96.6 | 98.1 | 131.8 | 115.0 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 469.3 |
| 6:04:33 | 1:16:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 131.8 | 115.0 | 75.0 | 75.4 | 107.0 | 669.6 | 387.2 | 469.3 |
| 6:05:33 | 1:17:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 131.6 | 114.9 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 469.2 |
| 6:06:34 | 1:18:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.7 | 98.0 | 96.9 | 96.6 | 98.0 | 131.7 | 114.9 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 469.2 |
| 6:07:34 | 1:19:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 98.0 | 131.6 | 114.8 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 469.2 |
| 6:08:34 | 1:20:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 131.6 | 114.7 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 469.3 |
| 6:09:34 | 1:21:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 131.4 | 114.7 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 469.3 |
| 6:10:34 | 1:22:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 131.3 | 114.6 | 75.1 | 75.5 | 106.8 | 669.7 | 387.3 | 469.2 |
| 6:11:34 | 1:23:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.3 | 97.8 | 131.2 | 114.5 | 75.0 | 75.6 | 106.8 | 669.6 | 387.3 | 468.3 |
| 6:12:34 | 1:24:08 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.3 | 97.8 | 131.2 | 114.4 | 75.1 | 75.6 | 106.8 | 669.6 | 387.3 | 467.7 |
| 6:13:34 | 1:25:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.5 | 97.9 | 96.7 | 96.3 | 97.7 | 131.3 | 114.4 | 75.1 | 75.6 | 106.8 | 669.7 | 387.2 | 467.8 |
| 6:14:34 | 1:26:09 | 26.2 | 26.1 | 30.0 | 60.8 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.7 | 97.1 | 102.4 | 131.2 | 114.3 | 75.1 | 75.6 | 106.8 | 669.6 | 387.3 | 467.7 |
| 6:15:35 | 1:27:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 99.1 | 106.1 | 131.2 | 114.2 | 75.1 | 75.6 | 106.7 | 669.6 | 387.3 | 467.8 |
| 6:16:35 | 1:28:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 97.7 | 101.3 | 131.0 | 114.1 | 75.1 | 75.7 | 106.7 | 669.6 | 387.3 | 467.8 |
| 6:17:35 | 1:29:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 97.4 | 99.6 | 131.0 | 114.1 | 75.1 | 75.7 | 106.7 | 669.6 | 387.3 | 467.7 |
| 6:18:35 | 1:30:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.8 | 97.3 | 99.0 | 130.9 | 114.2 | 75.1 | 75.6 | 106.8 | 669.6 | 387.2 | 467.7 |
| 6:19:35 | 1:31:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.8 | 97.1 | 98.7 | 130.8 | 117.4 | 75.1 | 75.6 | 107.3 | 669.6 | 387.2 | 467.7 |
| 6:20:35 | 1:32:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 97.1 | 98.5 | 130.8 | 117.5 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 467.8 |
| 6:21:35 | 1:33:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.9 | 98.4 | 130.8 | 117.5 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 467.8 |
| 6:22:35 | 1:34:09 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.8 | 98.3 | 130.8 | 117.4 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 467.7 |
| 6:23:35 | 1:35:09 | 26.2 | 26.1 | 30.0 | 60.8 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.8 | 98.2 | 130.8 | 117.4 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 467.7 |
| 6:24:35 | 1:36:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.8 | 98.1 | 130.7 | 117.3 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 467.7 |
| 6:25:36 | 1:37:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 98.1 | 130.6 | 117.2 | 75.0 | 75.5 | 107.2 | 669.6 | 387.2 | 466.3 |
| 6:26:36 | 1:38:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.9 | 96.8 | 96.6 | 98.0 | 130.5 | 117.2 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 466.3 |
| 6:27:36 | 1:39:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.8 | 96.8 | 96.6 | 98.0 | 130.5 | 117.1 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 466.3 |
| 6:28:36 | 1:40:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.9 | 96.8 | 96.6 | 98.0 | 130.4 | 117.0 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 466.2 |
| 6:29:36 | 1:41:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.7 | 96.4 | 97.8 | 130.3 | 116.9 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 466.2 |
| 6:30:36 | 1:42:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.3 | 98.1 | 97.6 | 97.8 | 96.8 | 96.6 | 97.9 | 130.3 | 116.9 | 75.1 | 75.4 | 107.2 | 669.6 | 387.2 | 466.2 |
| 6:31:36 | 1:43:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.5 | 97.8 | 96.7 | 98.2 | 105.7 | 130.3 | 116.8 | 75.1 | 75.4 | 107.1 | 669.6 | 387.3 | 466.2 |
| 6:32:36 | 1:44:10 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.8 | 104.3 | 123.8 | 130.2 | 116.7 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 466.3 |
| 6:33:36 | 1:45:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.0 | 101.2 | 110.8 | 130.1 | 116.6 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 466.3 |
| 6:34:36 | 1:46:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 98.0 | 99.9 | 130.2 | 116.5 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 466.3 |
| 6:35:37 | 1:47:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 96.9 | 130.1 | 116.5 | 75.1 | 75.4 | 107.3 | 669.6 | 387.3 | 466.2 |
| 6:36:37 | 1:48:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.3 | 97.4 | 130.0 | 116.4 | 75.1 | 75.4 | 107.2 | 669.6 | 387.3 | 466.2 |
| 6:37:37 | 1:49:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.0 | 130.0 | 116.4 | 75.1 | 75.4 | 107.2 | 669.6 | 387.3 | 464.7 |
| 6:38:37 | 1:50:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 97.3 | 98.2 | 130.0 | 116.3 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 466.2 |
| 6:39:37 | 1:51:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.4 | 129.8 | 116.3 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 464.7 |
| 6:40:37 | 1:52:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.5 | 129.8 | 116.2 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 464.7 |
| 6:41:37 | 1:53:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 129.7 | 116.1 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 464.7 |
| 6:42:37 | 1:54:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.4 | 129.7 | 116.0 | 75.2 | 75.5 | 107.2 | 669.6 | 387.3 | 464.7 |
| 6:43:37 | 1:55:11 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 129.6 | 115.9 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 464.7 |
| 6:44:37 | 1:56:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 129.5 | 115.8 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 464.7 |
| 6:45:38 | 1:57:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 129.5 | 115.8 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 464.7 |
| 6:46:38 | 1:58:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 129.4 | 115.7 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 464.8 |
| 6:47:38 | 1:59:12 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.2 | 129.4 | 115.6 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 464.8 |
| 6:48:38 | 2:00:12 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.2 | 129.4 | 115.6 | 75.2 | 75.6 | 107.0 | 669.6 | 387.3 | 464.8 |
| 6:49:38 | 2:01:12 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 129.3 | 115.5 | 75.1 | 75.6 | 107.0 | 669.6 | 387.3 | 464.7 |
| 6:50:38 | 2:02:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.1 | 129.3 | 115.4 | 75.1 | 75.6 | 107.1 | 669.6 | 387.3 | 464.7 |
| 6:51:38 | 2:03:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.2 | 115.4 | 75.2 | 75.6 | 107.0 | 669.6 | 387.3 | 464.8 |
| 6:52:38 | 2:04:12 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.2 | 115.3 | 75.1 | 75.6 | 106.9 | 669.6 | 387.3 | 464.8 |
| 6:53:38 | 2:05:13 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.1 | 115.2 | 75.1 | 75.5 | 106.9 | 669.6 | 387.3 | 464.7 |
| 6:54:38 | 2:06:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.9 | 129.1 | 115.1 | 75.1 | 75.5 | 106.9 | 669.6 | 387.3 | 464.7 |
| 6:55:39 | 2:07:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.0 | 115.1 | 75.1 | 75.5 | 106.9 | 669.6 | 387.3 | 464.7 |
| 6:56:39 | 2:08:13 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 132.2 | 115.0 | 75.1 | 75.5 | 106.9 | 669.6 | 387.3 | 464.7 |
| 6:57:39 | 2:09:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 96.3 | 97.7 | 133.2 | 115.0 | 75.1 | 75.5 | 106.8 | 669.6 | 387.2 | 464.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000074

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:58:39 | 2:10:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 101.9 | 117.1 | 133.3 | 114.8 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 464.7 |
| 6:59:39 | 2:11:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 102.0 | 114.2 | 133.1 | 114.8 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 464.8 |
| 7:00:39 | 2:12:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 98.0 | 101.0 | 133.0 | 114.8 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 464.8 |
| 7:01:39 | 2:13:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 97.2 | 133.0 | 114.7 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 463.2 |
| 7:02:39 | 2:14:13 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.1 | 97.4 | 133.0 | 114.6 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 464.7 |
| 7:03:39 | 2:15:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.8 | 133.0 | 114.5 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 463.2 |
| 7:04:39 | 2:16:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.0 | 133.1 | 114.5 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 463.2 |
| 7:05:40 | 2:17:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.1 | 132.9 | 114.4 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 463.3 |
| 7:06:40 | 2:18:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 132.8 | 114.4 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 463.2 |
| 7:07:40 | 2:19:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.2 | 132.7 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 463.2 |
| 7:08:40 | 2:20:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.2 | 132.7 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 463.2 |
| 7:09:40 | 2:21:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 132.7 | 114.1 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 463.2 |
| 7:10:40 | 2:22:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 132.7 | 117.1 | 75.0 | 75.5 | 107.9 | 669.6 | 387.3 | 463.2 |
| 7:11:40 | 2:23:14 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 132.6 | 117.6 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:12:40 | 2:24:15 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 98.0 | 96.9 | 96.8 | 98.1 | 132.6 | 117.6 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:13:40 | 2:25:15 | 26.2 | 26.1 | 30.1 | 60.8 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.1 | 132.5 | 117.5 | 75.1 | 75.6 | 107.2 | 669.6 | 387.2 | 463.2 |
| 7:14:40 | 2:26:15 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 97.9 | 132.5 | 117.4 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 463.2 |
| 7:15:41 | 2:27:15 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 132.3 | 117.4 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:16:41 | 2:28:15 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.4 | 117.3 | 75.1 | 75.6 | 107.3 | 669.6 | 387.3 | 463.2 |
| 7:17:41 | 2:29:15 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 132.4 | 117.2 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:18:41 | 2:30:15 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 132.3 | 117.1 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:19:41 | 2:31:15 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 132.1 | 117.1 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 463.2 |
| 7:20:41 | 2:32:15 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 96.3 | 97.7 | 132.1 | 117.0 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:21:41 | 2:33:15 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 99.2 | 108.9 | 132.0 | 116.9 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 463.2 |
| 7:22:41 | 2:34:15 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 98.0 | 96.9 | 98.7 | 104.7 | 132.0 | 116.8 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:23:41 | 2:35:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 97.3 | 99.5 | 131.9 | 116.7 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 463.1 |
| 7:24:42 | 2:36:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 95.8 | 95.3 | 131.9 | 116.7 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:25:42 | 2:37:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 95.9 | 95.8 | 131.9 | 116.6 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 461.7 |
| 7:26:42 | 2:38:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.1 | 98.1 | 97.6 | 97.9 | 96.8 | 96.1 | 96.5 | 131.7 | 116.5 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 461.8 |
| 7:27:42 | 2:39:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 102.3 | 118.2 | 131.7 | 116.4 | 75.0 | 75.5 | 107.2 | 669.6 | 387.2 | 461.7 |
| 7:28:42 | 2:40:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 103.2 | 117.6 | 131.7 | 116.4 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:29:42 | 2:41:16 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.1 | 97.1 | 98.6 | 102.2 | 131.7 | 116.3 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 461.7 |
| 7:30:42 | 2:42:16 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.4 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 131.6 | 116.2 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:31:42 | 2:43:16 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.1 | 97.2 | 131.6 | 116.2 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.6 |
| 7:32:42 | 2:44:16 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 97.7 | 131.5 | 116.1 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:33:42 | 2:45:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 131.4 | 116.0 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:34:43 | 2:46:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.2 | 131.4 | 115.9 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:35:43 | 2:47:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.3 | 131.4 | 115.8 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 461.7 |
| 7:36:43 | 2:48:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.3 | 131.3 | 115.8 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 461.7 |
| 7:37:43 | 2:49:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.3 | 131.2 | 115.8 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 461.7 |
| 7:38:43 | 2:50:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 131.2 | 115.6 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 461.7 |
| 7:39:43 | 2:51:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.2 | 131.2 | 115.6 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 461.7 |
| 7:40:43 | 2:52:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.2 | 131.1 | 115.5 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 460.2 |
| 7:41:43 | 2:53:17 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 131.1 | 115.4 | 75.0 | 75.6 | 107.0 | 669.6 | 387.3 | 461.7 |
| 7:42:43 | 2:54:18 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 131.0 | 115.4 | 75.0 | 75.6 | 107.0 | 669.6 | 387.2 | 460.2 |
| 7:43:43 | 2:55:18 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.8 | 98.1 | 130.9 | 115.3 | 75.1 | 75.5 | 107.0 | 669.6 | 387.3 | 460.2 |
| 7:44:44 | 2:56:18 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 130.8 | 115.2 | 75.0 | 75.6 | 107.0 | 669.6 | 387.3 | 460.1 |
| 7:45:44 | 2:57:18 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 130.7 | 115.1 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 460.1 |
| 7:46:44 | 2:58:18 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 130.7 | 115.1 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 460.2 |
| 7:47:44 | 2:59:18 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.0 | 96.9 | 96.6 | 97.9 | 130.6 | 115.0 | 75.0 | 75.5 | 106.9 | 669.6 | 387.2 | 460.2 |
| 7:48:44 | 3:00:18 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 130.5 | 114.9 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:49:44 | 3:01:18 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.5 | 114.9 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:50:44 | 3:02:18 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.4 | 97.8 | 130.4 | 114.8 | 75.0 | 75.4 | 106.7 | 669.6 | 387.2 | 460.2 |
| 7:51:44 | 3:03:18 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 100.4 | 112.6 | 130.5 | 114.7 | 74.9 | 75.4 | 106.7 | 669.6 | 387.2 | 460.2 |
| 7:52:44 | 3:04:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.0 | 97.0 | 105.0 | 124.6 | 130.5 | 114.7 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:53:44 | 3:05:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 99.8 | 106.2 | 130.4 | 114.6 | 74.9 | 75.3 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:54:45 | 3:06:19 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 97.5 | 98.3 | 130.3 | 114.6 | 75.0 | 75.3 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:55:45 | 3:07:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 130.3 | 114.5 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000075

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7:56:45 | 3:08:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.0 | 98.2 | 97.1 | 97.3 | 97.5 | 130.3 | 114.4 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:57:45 | 3:09:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.2 | 97.1 | 97.3 | 98.0 | 130.2 | 114.4 | 75.0 | 75.4 | 106.8 | 669.6 | 387.3 | 460.2 |
| 7:58:45 | 3:10:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.3 | 98.2 | 130.2 | 114.3 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 460.2 |
| 7:59:45 | 3:11:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 130.0 | 114.2 | 74.9 | 75.4 | 106.7 | 669.6 | 387.3 | 460.2 |
| 8:00:45 | 3:12:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 129.9 | 114.1 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 460.2 |
| 8:01:45 | 3:13:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.4 | 129.9 | 114.1 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 460.2 |
| 8:02:45 | 3:14:19 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.3 | 130.0 | 117.1 | 75.0 | 75.5 | 107.7 | 669.6 | 387.3 | 460.2 |
| 8:03:45 | 3:15:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 129.9 | 117.5 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 460.2 |
| 8:04:45 | 3:16:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.2 | 129.8 | 117.5 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:05:46 | 3:17:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.8 | 98.2 | 129.8 | 117.4 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 460.2 |
| 8:06:46 | 3:18:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 129.7 | 117.3 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:07:46 | 3:19:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.7 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 129.6 | 117.2 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:08:46 | 3:20:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 129.6 | 117.2 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:09:46 | 3:21:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.0 | 129.5 | 117.1 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:10:46 | 3:22:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.5 | 117.0 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:11:46 | 3:23:20 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.0 | 129.5 | 116.9 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 460.2 |
| 8:12:46 | 3:24:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.4 | 116.9 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 460.3 |
| 8:13:46 | 3:25:21 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.4 | 116.8 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:14:47 | 3:26:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.3 | 116.7 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.1 |
| 8:15:47 | 3:27:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.3 | 116.6 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 460.2 |
| 8:16:47 | 3:28:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 129.2 | 116.5 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:17:47 | 3:29:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.3 | 97.7 | 129.1 | 116.5 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:18:47 | 3:30:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 96.2 | 97.7 | 129.0 | 116.4 | 75.0 | 75.6 | 107.2 | 669.6 | 387.2 | 460.2 |
| 8:19:47 | 3:31:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 102.7 | 119.5 | 130.6 | 116.4 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 460.2 |
| 8:20:47 | 3:32:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 104.1 | 120.3 | 133.4 | 116.3 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:21:47 | 3:33:21 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.3 | 98.3 | 97.2 | 99.2 | 103.6 | 133.4 | 116.2 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 460.2 |
| 8:22:47 | 3:34:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.2 | 97.3 | 97.3 | 133.3 | 116.1 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 460.2 |
| 8:23:47 | 3:35:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 133.2 | 116.0 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.1 |
| 8:24:48 | 3:36:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.3 | 97.7 | 133.0 | 116.0 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:25:48 | 3:37:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.3 | 98.1 | 133.1 | 115.9 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:26:48 | 3:38:22 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.3 | 98.3 | 133.1 | 115.8 | 75.0 | 75.6 | 107.2 | 669.6 | 387.3 | 460.2 |
| 8:27:48 | 3:39:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 133.0 | 115.8 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 460.2 |
| 8:28:48 | 3:40:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.4 | 132.9 | 115.7 | 75.0 | 75.5 | 107.1 | 669.6 | 387.2 | 458.7 |
| 8:29:48 | 3:41:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.4 | 132.9 | 115.6 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 458.7 |
| 8:30:48 | 3:42:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.3 | 132.9 | 115.6 | 75.0 | 75.4 | 107.1 | 669.6 | 387.2 | 459.9 |
| 8:31:48 | 3:43:22 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 96.9 | 98.3 | 132.8 | 115.5 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 458.7 |
| 8:32:48 | 3:44:23 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 132.9 | 115.4 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 458.7 |
| 8:33:48 | 3:45:23 | 26.2 | 26.1 | 30.0 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 132.8 | 115.4 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 458.8 |
| 8:34:49 | 3:46:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.8 | 98.2 | 132.8 | 115.3 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 458.7 |
| 8:35:49 | 3:47:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.1 | 97.0 | 96.8 | 98.1 | 132.7 | 115.2 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 458.7 |
| 8:36:49 | 3:48:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 132.6 | 115.1 | 74.9 | 75.4 | 107.0 | 669.6 | 387.3 | 458.6 |
| 8:37:49 | 3:49:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 132.6 | 115.1 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:38:49 | 3:50:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.1 | 132.5 | 115.0 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:39:49 | 3:51:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.6 | 98.0 | 132.4 | 114.9 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:40:49 | 3:52:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 97.0 | 96.6 | 97.9 | 132.4 | 114.8 | 75.0 | 75.4 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:41:49 | 3:53:23 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 132.3 | 114.8 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:42:49 | 3:54:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.9 | 132.2 | 114.7 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 458.7 |
| 8:43:49 | 3:55:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.2 | 114.6 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 458.6 |
| 8:44:50 | 3:56:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 132.2 | 114.6 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 458.7 |
| 8:45:50 | 3:57:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.3 | 97.7 | 132.1 | 114.5 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 458.7 |
| 8:46:50 | 3:58:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.2 | 97.7 | 132.1 | 114.4 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 458.7 |
| 8:47:50 | 3:59:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.3 | 97.7 | 132.1 | 114.4 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 458.8 |
| 8:48:50 | 4:00:24 | 26.2 | 26.1 | 30.1 | 60.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 101.2 | 115.2 | 132.1 | 114.3 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 458.6 |
| 8:49:50 | 4:01:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.1 | 97.0 | 104.3 | 121.7 | 132.1 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 458.7 |
| 8:50:50 | 4:02:24 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 99.0 | 104.1 | 132.0 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 458.7 |
| 8:51:50 | 4:03:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 97.5 | 132.0 | 114.1 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 458.8 |
| 8:52:50 | 4:04:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.2 | 97.1 | 97.2 | 131.9 | 114.3 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 458.7 |
| 8:53:51 | 4:05:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 97.8 | 131.8 | 117.6 | 75.0 | 75.4 | 107.4 | 669.6 | 387.3 | 458.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000076

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8:54:51 | 4:06:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 98.0 | 131.7 | 117.6 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 457.2 |
| 8:55:51 | 4:07:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.1 | 98.2 | 131.6 | 117.6 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 457.2 |
| 8:56:51 | 4:08:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.5 | 117.6 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 457.2 |
| 8:57:51 | 4:09:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.3 | 131.6 | 117.5 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 457.2 |
| 8:58:51 | 4:10:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.3 | 131.5 | 117.4 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 457.2 |
| 8:59:51 | 4:11:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 131.4 | 117.3 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:00:51 | 4:12:25 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 131.4 | 117.3 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:01:51 | 4:13:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 131.3 | 117.2 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:02:51 | 4:14:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 96.8 | 98.2 | 131.3 | 117.2 | 75.1 | 75.5 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:03:52 | 4:15:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 131.3 | 117.0 | 75.1 | 75.5 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:04:52 | 4:16:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 131.3 | 116.9 | 75.0 | 75.5 | 107.3 | 669.6 | 387.3 | 457.2 |
| 9:05:52 | 4:17:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.0 | 131.2 | 116.9 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 457.1 |
| 9:06:52 | 4:18:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 98.0 | 96.9 | 96.8 | 98.1 | 131.2 | 116.9 | 75.1 | 75.5 | 107.2 | 669.6 | 387.3 | 457.1 |
| 9:07:52 | 4:19:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 98.0 | 97.0 | 96.6 | 97.9 | 131.1 | 116.7 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 457.2 |
| 9:08:52 | 4:20:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 131.0 | 116.6 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 457.2 |
| 9:09:52 | 4:21:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 131.0 | 116.6 | 75.0 | 75.5 | 107.2 | 669.6 | 387.2 | 457.2 |
| 9:10:52 | 4:22:26 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.9 | 116.5 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 457.1 |
| 9:11:52 | 4:23:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 130.9 | 116.4 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 457.1 |
| 9:12:52 | 4:24:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 130.8 | 116.3 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 457.2 |
| 9:13:52 | 4:25:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.7 | 130.7 | 116.3 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 457.2 |
| 9:14:53 | 4:26:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.2 | 97.7 | 130.7 | 116.3 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:15:53 | 4:27:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.2 | 97.6 | 130.7 | 116.1 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 457.2 |
| 9:16:53 | 4:28:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.2 | 97.6 | 130.6 | 116.1 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 457.2 |
| 9:17:53 | 4:29:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.5 | 97.8 | 96.8 | 96.2 | 98.5 | 130.6 | 116.0 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:18:53 | 4:30:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.8 | 103.1 | 120.7 | 130.5 | 115.9 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.6 |
| 9:19:53 | 4:31:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.4 | 98.4 | 98.1 | 98.1 | 97.0 | 101.5 | 112.7 | 130.4 | 115.8 | 74.9 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:20:53 | 4:32:27 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 98.0 | 100.6 | 130.4 | 115.8 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:21:53 | 4:33:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 97.1 | 97.2 | 130.4 | 115.7 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:22:53 | 4:34:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 97.1 | 97.4 | 130.3 | 115.6 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:23:53 | 4:35:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.8 | 130.3 | 115.6 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:24:54 | 4:36:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.0 | 130.2 | 115.5 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 455.7 |
| 9:25:54 | 4:37:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 97.1 | 98.2 | 130.1 | 115.4 | 75.0 | 75.5 | 107.0 | 669.6 | 387.3 | 455.7 |
| 9:26:54 | 4:38:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.2 | 130.1 | 115.4 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 455.6 |
| 9:27:54 | 4:39:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.9 | 98.3 | 130.0 | 115.3 | 75.0 | 75.5 | 107.0 | 669.6 | 387.3 | 455.6 |
| 9:28:54 | 4:40:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.9 | 98.2 | 130.0 | 115.2 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 455.7 |
| 9:29:54 | 4:41:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.8 | 98.2 | 130.0 | 115.2 | 75.1 | 75.5 | 107.0 | 669.6 | 387.3 | 455.7 |
| 9:30:54 | 4:42:28 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 129.8 | 115.0 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 455.6 |
| 9:31:54 | 4:43:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 129.8 | 115.0 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 455.6 |
| 9:32:54 | 4:44:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.1 | 129.7 | 115.0 | 75.1 | 75.5 | 106.9 | 669.6 | 387.3 | 455.7 |
| 9:33:55 | 4:45:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.7 | 114.8 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 455.7 |
| 9:34:55 | 4:46:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 129.7 | 114.8 | 75.1 | 75.5 | 106.8 | 669.6 | 387.2 | 455.7 |
| 9:35:55 | 4:47:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.6 | 114.7 | 75.0 | 75.4 | 106.8 | 669.6 | [illegible] | 455.7 |
| 9:36:55 | 4:48:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.5 | 114.7 | 75.0 | 75.4 | 106.7 | 669.6 | [illegible]87.3 | [illegible]55.7 |
| 9:37:55 | 4:49:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.4 | 114.6 | 75.0 | 75.4 | 106.7 | 669.6 | [illegible]87.3 | [illegible]54.2 |
| 9:38:55 | 4:50:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.5 | 114.5 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 455.7 |
| 9:39:55 | 4:51:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.9 | 96.8 | 96.3 | 97.8 | 129.4 | 114.5 | 75.0 | 75.4 | 106.7 | 669.6 | [illegible]87.3 | 455.6 |
| 9:40:55 | 4:52:29 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.3 | 97.8 | 129.3 | 114.4 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 454.2 |
| 9:41:55 | 4:53:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.3 | 97.7 | 129.2 | 114.3 | 75.0 | 75.4 | 106.6 | 669.6 | 387.2 | 454.2 |
| 9:42:55 | 4:54:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.1 | 98.1 | 97.7 | 97.9 | 96.8 | 98.2 | 106.4 | 129.2 | 114.3 | 75.0 | 75.4 | 106.6 | 669.6 | 387.3 | 454.2 |
| 9:43:56 | 4:55:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 96.9 | 104.3 | 123.5 | 129.2 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 454.1 |
| 9:44:56 | 4:56:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.1 | 98.1 | 97.1 | 99.7 | 106.4 | 129.1 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 454.2 |
| 9:45:56 | 4:57:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.3 | 98.1 | 129.1 | 114.7 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 454.2 |
| 9:46:56 | 4:58:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.3 | 129.0 | 117.4 | 75.0 | 75.4 | 107.3 | 669.6 | 387.3 | 454.2 |
| 9:47:56 | 4:59:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.1 | 97.7 | 132.9 | 117.5 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 454.1 |
| 9:48:56 | 5:00:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 97.1 | 98.0 | 133.2 | 117.4 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 454.2 |
| 9:49:56 | 5:01:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 133.0 | 117.3 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 454.2 |
| 9:50:56 | 5:02:30 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.2 | 133.1 | 117.3 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 454.2 |
| 9:51:56 | 5:03:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.2 | 133.1 | 117.2 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 454.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000077

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:52:56 | 5:04:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 96.9 | 98.2 | 132.9 | 117.1 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 454.1 |
| 9:53:57 | 5:05:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.8 | 98.2 | 133.1 | 117.1 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 454.1 |
| 9:54:57 | 5:06:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.1 | 97.0 | 96.8 | 98.1 | 133.0 | 116.9 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 454.2 |
| 9:55:57 | 5:07:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.8 | 98.1 | 132.9 | 116.9 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 454.2 |
| 9:56:57 | 5:08:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 132.9 | 116.8 | 75.1 | 75.6 | 107.2 | 669.6 | 387.3 | 454.2 |
| 9:57:57 | 5:09:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 132.8 | 116.7 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 454.2 |
| 9:58:57 | 5:10:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 98.0 | 132.8 | 116.7 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 454.2 |
| 9:59:57 | 5:11:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.7 | 98.0 | 96.9 | 96.6 | 97.9 | 132.7 | 116.6 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 454.2 |
| 10:00:57 | 5:12:31 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 132.7 | 116.5 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 454.1 |
| 10:01:57 | 5:13:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 132.7 | 116.5 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 454.2 |
| 10:02:57 | 5:14:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.6 | 116.4 | 75.0 | 75.4 | 107.1 | 669.6 | 387.2 | 454.2 |
| 10:03:58 | 5:15:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.4 | 116.4 | 75.0 | 75.3 | 107.0 | 669.6 | 387.3 | 454.2 |
| 10:04:58 | 5:16:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.5 | 116.3 | 75.0 | 75.4 | 107.0 | 669.6 | 387.3 | 454.1 |
| 10:05:58 | 5:17:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 132.4 | 116.2 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:06:58 | 5:18:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 132.4 | 116.1 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:07:58 | 5:19:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.2 | 97.7 | 132.3 | 116.1 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:08:58 | 5:20:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.2 | 97.7 | 132.2 | 116.0 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:09:58 | 5:21:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.8 | 96.2 | 97.6 | 132.2 | 115.9 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 452.6 |
| 10:10:58 | 5:22:32 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 102.4 | 118.8 | 132.1 | 115.8 | 75.0 | 75.5 | 107.0 | 669.6 | 387.3 | 452.6 |
| 10:11:58 | 5:23:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.0 | 97.0 | 103.0 | 117.3 | 132.1 | 115.8 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:12:58 | 5:24:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 98.5 | 102.2 | 132.0 | 115.7 | 75.1 | 75.6 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:13:59 | 5:25:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.1 | 97.1 | 97.2 | 132.0 | 115.6 | 75.1 | 75.5 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:14:59 | 5:26:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.1 | 97.1 | 97.1 | 97.3 | 132.0 | 115.5 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:15:59 | 5:27:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.8 | 131.9 | 115.5 | 75.1 | 75.6 | 107.1 | 669.6 | 387.2 | 452.7 |
| 10:16:59 | 5:28:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 131.8 | 115.4 | 75.1 | 75.6 | 107.1 | 669.6 | 387.3 | 452.7 |
| 10:17:59 | 5:29:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 97.9 | 98.1 | 97.1 | 97.1 | 98.2 | 131.8 | 115.3 | 75.1 | 75.6 | 107.0 | 669.6 | 387.3 | 452.7 |
| 10:18:59 | 5:30:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 97.9 | 98.1 | 97.1 | 97.1 | 98.3 | 131.8 | 115.3 | 75.1 | 75.6 | 107.0 | 669.6 | 387.3 | 452.7 |
| 10:19:59 | 5:31:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.0 | 96.9 | 98.3 | 131.8 | 115.2 | 75.1 | 75.5 | 107.0 | 669.6 | 387.3 | 452.7 |
| 10:20:59 | 5:32:33 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 131.6 | 115.1 | 75.1 | 75.5 | 107.0 | 669.6 | 387.3 | 452.7 |
| 10:21:59 | 5:33:34 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 131.6 | 115.0 | 75.0 | 75.6 | 106.9 | 669.6 | 387.3 | 452.6 |
| 10:22:59 | 5:34:34 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 97.0 | 96.9 | 98.2 | 131.5 | 115.0 | 75.1 | 75.6 | 107.0 | 669.6 | 387.3 | 452.6 |
| 10:24:00 | 5:35:34 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 131.4 | 114.9 | 75.1 | 75.6 | 106.9 | 669.6 | 387.3 | 452.7 |
| 10:25:00 | 5:36:34 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 131.4 | 114.8 | 75.0 | 75.5 | 106.9 | 669.6 | 387.3 | 452.7 |
| 10:26:00 | 5:37:34 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 131.3 | 114.8 | 75.0 | 75.6 | 106.9 | 669.6 | 387.3 | 452.7 |
| 10:27:00 | 5:38:34 | 26.2 | 26.1 | 30.1 | 60.2 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 131.3 | 114.7 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 452.7 |
| 10:28:00 | 5:39:34 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 131.2 | 114.6 | 75.0 | 75.5 | 106.8 | 669.6 | 387.3 | 452.6 |
| 10:29:00 | 5:40:34 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 131.2 | 114.6 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:30:00 | 5:41:34 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.4 | 97.9 | 131.1 | 114.5 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:31:00 | 5:42:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 131.1 | 114.4 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:32:00 | 5:43:35 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 131.0 | 114.3 | 75.0 | 75.5 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:33:01 | 5:44:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.8 | 130.9 | 114.3 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:34:01 | 5:45:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.8 | 96.8 | 96.4 | 97.8 | 130.9 | 114.2 | 75.0 | 75.4 | 106.7 | 669.6 | 387.3 | 452.7 |
| 10:35:01 | 5:46:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 130.8 | 114.2 | 75.0 | 75.4 | 106.6 | 669.6 | 387.3 | 452.7 |
| 10:36:01 | 5:47:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.2 | 97.7 | 130.8 | 114.1 | 75.0 | 75.4 | 106.6 | 669.6 | 387.3 | 451.2 |
| 10:37:01 | 5:48:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.8 | 101.5 | 130.8 | 116.7 | 74.9 | 75.4 | 108.6 | 669.6 | 387.3 | 451.2 |
| 10:38:01 | 5:49:35 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.7 | 97.8 | 96.8 | 99.5 | 107.6 | 130.8 | 117.6 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 451.1 |
| 10:39:01 | 5:50:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 98.0 | 101.8 | 130.8 | 117.6 | 75.0 | 75.4 | 107.1 | 669.6 | 387.3 | 451.1 |
| 10:40:01 | 5:51:35 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 97.5 | 99.9 | 130.7 | 117.5 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:41:01 | 5:52:36 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 96.9 | 97.3 | 99.1 | 130.5 | 117.4 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:42:01 | 5:53:36 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 97.1 | 98.8 | 130.6 | 117.4 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:43:02 | 5:54:36 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 97.1 | 98.6 | 130.5 | 117.3 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:44:02 | 5:55:36 | 26.2 | 26.1 | 30.1 | 60.1 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 97.1 | 98.5 | 130.5 | 117.3 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:45:02 | 5:56:36 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.9 | 98.4 | 130.3 | 117.2 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:46:02 | 5:57:36 | 26.2 | 26.1 | 30.1 | 60.0 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.8 | 98.3 | 130.4 | 117.0 | 74.9 | 75.5 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:47:02 | 5:58:36 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.8 | 98.2 | 130.4 | 117.0 | 75.0 | 75.5 | 107.3 | 669.6 | 387.2 | 451.2 |
| 10:48:02 | 5:59:36 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.8 | 98.1 | 130.3 | 116.9 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 451.1 |
| 10:49:02 | 6:00:36 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.1 | 130.2 | 116.9 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:50:02 | 6:01:36 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 130.1 | 116.7 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000078

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:51:02 | 6:02:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 130.1 | 116.7 | 75.0 | 75.5 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:52:02 | 6:03:37 | 26.2 | 26.1 | 30.1 | 60.0 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 130.0 | 116.6 | 75.0 | 75.4 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:53:03 | 6:04:37 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 96.4 | 97.8 | 130.0 | 116.5 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:54:03 | 6:05:37 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.8 | 96.3 | 97.8 | 130.0 | 116.4 | 74.9 | 75.4 | 107.1 | 669.6 | 387.3 | 451.2 |
| 10:55:03 | 6:06:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 102.3 | 118.3 | 129.9 | 116.4 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:56:03 | 6:07:37 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.1 | 98.1 | 97.1 | 101.2 | 111.5 | 129.8 | 116.3 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:57:03 | 6:08:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 97.7 | 99.9 | 129.7 | 116.3 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 10:58:03 | 6:09:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 97.1 | 97.3 | 129.7 | 116.2 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.2 |
| 10:59:03 | 6:10:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 98.0 | 98.1 | 97.1 | 96.9 | 97.4 | 129.7 | 116.1 | 74.8 | 75.4 | 107.3 | 669.6 | 387.3 | 451.2 |
| 11:00:03 | 6:11:37 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.9 | 129.7 | 116.1 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 11:01:03 | 6:12:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 129.7 | 116.0 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 451.1 |
| 11:02:03 | 6:13:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.2 | 129.5 | 115.9 | 74.9 | 75.4 | 107.1 | 669.6 | 387.3 | 451.1 |
| 11:03:04 | 6:14:38 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 129.5 | 115.8 | 74.9 | 75.4 | 107.1 | 669.6 | 387.3 | 451.2 |
| 11:04:04 | 6:15:38 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 129.4 | 115.7 | 74.9 | 75.5 | 107.2 | 669.6 | 387.3 | 451.2 |
| 11:05:04 | 6:16:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 129.3 | 115.7 | 74.9 | 75.5 | 107.2 | 669.6 | 387.3 | 451.1 |
| 11:06:04 | 6:17:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 129.4 | 115.6 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 451.1 |
| 11:07:04 | 6:18:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 129.3 | 115.5 | 74.9 | 75.5 | 107.1 | 669.6 | 387.3 | 451.2 |
| 11:08:04 | 6:19:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.1 | 129.2 | 115.5 | 75.0 | 75.5 | 107.1 | 669.6 | 387.3 | 451.2 |
| 11:09:04 | 6:20:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 129.2 | 115.4 | 75.0 | 75.6 | 107.1 | 669.6 | 387.3 | 451.2 |
| 11:10:04 | 6:21:38 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 129.2 | 115.3 | 74.9 | 75.6 | 107.1 | 669.6 | 387.2 | 451.8 |
| 11:11:04 | 6:22:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.1 | 115.2 | 74.9 | 75.6 | 107.0 | 669.6 | 387.3 | 451.2 |
| 11:12:04 | 6:23:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.1 | 115.2 | 75.0 | 75.6 | 107.0 | 669.6 | 387.3 | 451.1 |
| 11:13:05 | 6:24:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 129.0 | 115.1 | 75.0 | 75.6 | 107.0 | 669.6 | 387.3 | 451.1 |
| 11:14:05 | 6:25:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.9 | 115.0 | 74.9 | 75.6 | 107.0 | 669.6 | 387.3 | 451.1 |
| 11:15:05 | 6:26:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.4 | 97.8 | 133.2 | 115.0 | 75.0 | 75.6 | 106.9 | 669.6 | 387.3 | 451.2 |
| 11:16:05 | 6:27:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.3 | 97.7 | 133.2 | 114.9 | 74.9 | 75.6 | 106.9 | 669.6 | 387.3 | 451.2 |
| 11:17:05 | 6:28:39 | 26.2 | 26.1 | 30.1 | 60.0 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.2 | 97.7 | 133.2 | 114.8 | 74.9 | 75.5 | 106.8 | 669.6 | 387.3 | 451.2 |
| 11:18:05 | 6:29:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.9 | 102.0 | 133.2 | 114.7 | 74.9 | 75.5 | 106.8 | 669.6 | 387.3 | 451.1 |
| 11:19:05 | 6:30:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.7 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 100.2 | 109.3 | 133.2 | 114.7 | 74.9 | 75.5 | 106.8 | 669.6 | 387.3 | 451.1 |
| 11:20:05 | 6:31:39 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.9 | 98.0 | 96.9 | 98.0 | 101.7 | 133.1 | 114.6 | 74.9 | 75.4 | 106.8 | 669.6 | 387.3 | 451.2 |
| 11:21:05 | 6:32:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 96.9 | 96.8 | 97.7 | 133.1 | 114.6 | 74.9 | 75.4 | 106.8 | 669.6 | 387.3 | 451.2 |
| 11:22:05 | 6:33:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.4 | 133.1 | 114.4 | 74.8 | 75.4 | 106.8 | 669.6 | 387.3 | 451.2 |
| 11:23:06 | 6:34:40 | 26.2 | 26.1 | 30.1 | 60.4 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.6 | 133.0 | 114.4 | 74.8 | 75.4 | 106.7 | 669.6 | 387.3 | 451.2 |
| 11:24:06 | 6:35:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.7 | 133.0 | 114.3 | 74.8 | 75.4 | 106.7 | 669.6 | 387.3 | 449.7 |
| 11:25:06 | 6:36:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.8 | 133.0 | 114.3 | 74.9 | 75.4 | 106.7 | 669.6 | 387.3 | 451.1 |
| 11:26:06 | 6:37:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.8 | 132.9 | 114.2 | 74.8 | 75.4 | 106.7 | 669.6 | 387.3 | 451.1 |
| 11:27:06 | 6:38:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 96.4 | 97.8 | 132.8 | 114.1 | 74.8 | 75.4 | 106.7 | 669.6 | 387.3 | 449.7 |
| 11:28:06 | 6:39:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 132.9 | 114.1 | 74.8 | 75.4 | 106.7 | 669.6 | 387.2 | 449.7 |
| 11:29:06 | 6:40:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.8 | 96.8 | 96.4 | 97.8 | 132.8 | 117.4 | 74.8 | 75.4 | 107.4 | 669.6 | 387.3 | 449.7 |
| 11:30:06 | 6:41:40 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 96.3 | 97.7 | 132.7 | 117.5 | 74.8 | 75.5 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:31:06 | 6:42:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.3 | 97.7 | 132.7 | 117.5 | 74.8 | 75.5 | 107.2 | 669.6 | 387.3 | 449.6 |
| 11:32:06 | 6:43:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 97.5 | 104.1 | 132.6 | 117.5 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 449.6 |
| 11:33:07 | 6:44:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.2 | 97.9 | 98.0 | 96.9 | 103.2 | 119.5 | 132.5 | 117.4 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 449.7 |
| 11:34:07 | 6:45:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.0 | 97.0 | 98.9 | 104.1 | 132.5 | 117.3 | 74.9 | 75.5 | 107.3 | 669.6 | 387.2 | 449.6 |
| 11:35:07 | 6:46:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.1 | 97.1 | 96.9 | 97.7 | 132.5 | 117.2 | 74.8 | 75.5 | 107.3 | 669.6 | 387.3 | 449.6 |
| 11:36:07 | 6:47:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 97.3 | 132.4 | 117.2 | 74.9 | 75.5 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:37:07 | 6:48:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 96.9 | 96.9 | 97.7 | 132.4 | 117.1 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:38:07 | 6:49:41 | 26.2 | 26.1 | 30.1 | 60.0 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.9 | 97.9 | 132.4 | 117.0 | 74.8 | 75.6 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:39:07 | 6:50:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 96.9 | 96.9 | 98.0 | 132.2 | 116.9 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 449.6 |
| 11:40:07 | 6:51:41 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.1 | 132.2 | 116.9 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 449.6 |
| 11:41:07 | 6:52:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 96.8 | 98.0 | 132.1 | 116.7 | 74.8 | 75.6 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:42:07 | 6:53:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.1 | 132.1 | 116.7 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 449.7 |
| 11:43:08 | 6:54:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 132.1 | 116.6 | 74.8 | 75.6 | 107.3 | 669.6 | 387.3 | 449.6 |
| 11:44:08 | 6:55:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 132.0 | 116.6 | 74.9 | 75.5 | 107.2 | 669.6 | 387.3 | 449.7 |
| 11:45:08 | 6:56:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 131.9 | 116.5 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 449.6 |
| 11:46:08 | 6:57:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 131.8 | 116.4 | 74.9 | 75.5 | 107.2 | 669.6 | 387.3 | 449.7 |
| 11:47:08 | 6:58:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 131.8 | 116.3 | 74.8 | 75.6 | 107.2 | 669.6 | 387.2 | 449.9 |
| 11:48:08 | 6:59:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.8 | 131.8 | 116.3 | 74.9 | 75.6 | 107.2 | 669.6 | 387.3 | 449.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000079

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:49:08 | 7:00:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.8 | 96.9 | 96.4 | 97.7 | 131.7 | 116.2 | 74.8 | 75.5 | 107.1 | 669.6 | 387.3 | 449.6 |
| 11:50:08 | 7:01:42 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 96.3 | 97.7 | 131.7 | 116.1 | 74.9 | 75.5 | 107.1 | 669.6 | 387.2 | 449.7 |
| 11:51:08 | 7:02:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 101.1 | 114.4 | 131.6 | 116.1 | 74.9 | 75.5 | 107.1 | 669.6 | 387.3 | 449.7 |
| 11:52:08 | 7:03:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.0 | 97.0 | 105.1 | 124.5 | 131.6 | 116.0 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 449.6 |
| 11:53:09 | 7:04:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.1 | 97.1 | 99.7 | 105.7 | 131.6 | 115.9 | 74.9 | 75.4 | 107.2 | 669.6 | 387.3 | 449.6 |
| 11:54:09 | 7:05:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.2 | 97.4 | 98.1 | 131.5 | 115.8 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 449.7 |
| 11:55:09 | 7:06:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 97.0 | 131.5 | 115.8 | 74.8 | 75.4 | 107.2 | 669.6 | 387.3 | 449.7 |
| 11:56:09 | 7:07:43 | 26.2 | 26.1 | 30.1 | 60.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.3 | 97.6 | 131.4 | 115.7 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 449.5 |
| 11:57:09 | 7:08:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.0 | 131.3 | 115.5 | 74.7 | 75.3 | 107.1 | 669.6 | 387.3 | 448.1 |
| 11:58:09 | 7:09:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.2 | 131.2 | 115.5 | 74.8 | 75.3 | 107.1 | 669.6 | 387.3 | 449.6 |
| 11:59:09 | 7:10:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.2 | 115.5 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 448.2 |
| 12:00:09 | 7:11:43 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.4 | 131.2 | 115.4 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 448.1 |
| 12:01:09 | 7:12:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.2 | 115.3 | 74.8 | 75.4 | 107.1 | 669.6 | 387.3 | 448.1 |
| 12:02:09 | 7:13:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 131.2 | 115.2 | 74.8 | 75.4 | 107.0 | 669.6 | 387.3 | 448.2 |
| 12:03:10 | 7:14:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.3 | 131.0 | 115.2 | 74.8 | 75.4 | 107.0 | 669.6 | 387.3 | 448.1 |
| 12:04:10 | 7:15:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 96.8 | 98.2 | 130.9 | 115.1 | 74.8 | 75.4 | 107.0 | 669.6 | 387.3 | 448.1 |
| 12:05:10 | 7:16:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 130.9 | 115.1 | 74.8 | 75.4 | 107.0 | 669.6 | 387.3 | 448.1 |
| 12:06:10 | 7:17:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 130.9 | 115.0 | 74.8 | 75.5 | 107.0 | 669.6 | 387.3 | 448.1 |
| 12:07:10 | 7:18:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 130.7 | 115.0 | 74.9 | 75.4 | 106.9 | 669.6 | 387.3 | 448.2 |
| 12:08:10 | 7:19:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.1 | 130.8 | 114.8 | 74.8 | 75.5 | 107.0 | 669.6 | 387.3 | 448.2 |
| 12:09:10 | 7:20:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 130.7 | 114.8 | 74.8 | 75.5 | 106.9 | 669.6 | 387.3 | 448.1 |
| 12:10:10 | 7:21:44 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 97.0 | 96.6 | 98.0 | 130.6 | 114.7 | 74.8 | 75.5 | 106.9 | 669.6 | 387.3 | 448.1 |
| 12:11:10 | 7:22:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 130.5 | 114.6 | 74.8 | 75.5 | 106.9 | 669.6 | 387.2 | 448.2 |
| 12:12:10 | 7:23:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 130.5 | 114.6 | 74.8 | 75.5 | 106.9 | 669.6 | 387.3 | 448.2 |
| 12:13:11 | 7:24:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.4 | 114.5 | 74.8 | 75.5 | 106.8 | 669.6 | 387.3 | 448.3 |
| 12:14:11 | 7:25:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.3 | 114.4 | 74.8 | 75.5 | 106.8 | 669.6 | 387.3 | 448.1 |
| 12:15:11 | 7:26:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.3 | 114.4 | 74.8 | 75.6 | 106.8 | 669.6 | 387.3 | 448.1 |
| 12:16:11 | 7:27:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.3 | 114.3 | 74.9 | 75.6 | 106.8 | 669.6 | 387.3 | 448.1 |
| 12:17:11 | 7:28:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.3 | 97.7 | 130.3 | 114.2 | 74.9 | 75.6 | 106.8 | 669.6 | 387.3 | 448.1 |
| 12:18:11 | 7:29:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.8 | 96.8 | 96.3 | 97.8 | 130.2 | 114.2 | 74.9 | 75.6 | 106.8 | 669.6 | 387.3 | 448.1 |
| 12:19:11 | 7:30:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.8 | 96.4 | 99.6 | 130.2 | 114.1 | 74.9 | 75.7 | 106.8 | 669.6 | 387.3 | 448.2 |
| 12:20:11 | 7:31:45 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 100.8 | 111.5 | 130.1 | 114.2 | 74.9 | 75.7 | 106.9 | 669.6 | 387.3 | 448.1 |
| 12:21:11 | 7:32:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 97.8 | 101.3 | 130.1 | 117.6 | 75.0 | 75.8 | 107.5 | 669.6 | 387.3 | 448.2 |
| 12:22:11 | 7:33:46 | 26.2 | 26.1 | 30.1 | 59.8 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 97.7 | 130.0 | 117.7 | 75.0 | 75.8 | 107.3 | 669.6 | 387.2 | 446.6 |
| 12:23:12 | 7:34:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 97.4 | 129.8 | 117.6 | 75.0 | 75.8 | 107.4 | 669.6 | 387.3 | 446.6 |
| 12:24:12 | 7:35:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.7 | 129.8 | 117.6 | 75.0 | 75.9 | 107.4 | 669.6 | 387.3 | 446.6 |
| 12:25:12 | 7:36:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.8 | 129.7 | 117.5 | 75.0 | 76.0 | 107.4 | 669.6 | 387.3 | 446.7 |
| 12:26:12 | 7:37:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.6 | 97.9 | 129.8 | 117.5 | 75.1 | 76.0 | 107.4 | 669.6 | 387.3 | 446.6 |
| 12:27:12 | 7:38:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 129.8 | 117.4 | 75.1 | 76.1 | 107.4 | 669.6 | 387.2 | 446.6 |
| 12:28:12 | 7:39:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.0 | 97.7 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 102.4 | 118.1 | 129.6 | 117.3 | 75.1 | 76.0 | 107.4 | 669.6 | 387.3 | 446.7 |
| 12:29:12 | 7:40:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.4 | 98.4 | 98.1 | 98.1 | 97.0 | 101.9 | 113.4 | 129.6 | 117.2 | 75.1 | 76.1 | 107.5 | 669.6 | 387.3 | 446.6 |
| 12:30:12 | 7:41:46 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 98.1 | 100.7 | 129.5 | 117.1 | 75.2 | 76.2 | 107.5 | 669.6 | 387.3 | 446.6 |
| 12:31:12 | 7:42:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.4 | 98.4 | 98.1 | 98.1 | 97.1 | 97.1 | 97.2 | 129.5 | 117.0 | 75.2 | 76.2 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:32:12 | 7:43:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.4 | 129.4 | 116.9 | 75.2 | 76.3 | 107.6 | 669.6 | 387.3 | 446.7 |
| 12:33:13 | 7:44:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 97.9 | 129.2 | 116.9 | 75.2 | 76.3 | 107.6 | 669.6 | 387.3 | 446.7 |
| 12:34:13 | 7:45:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.3 | 98.2 | 129.2 | 116.8 | 75.3 | 76.4 | 107.6 | 669.6 | 387.2 | 446.6 |
| 12:35:13 | 7:46:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 97.1 | 98.3 | 129.3 | 116.7 | 75.3 | 76.4 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:36:13 | 7:47:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.4 | 129.2 | 116.7 | 75.3 | 76.4 | 107.6 | 669.6 | 387.3 | 446.7 |
| 12:37:13 | 7:48:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 97.1 | 98.4 | 129.2 | 116.6 | 75.3 | 76.4 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:38:13 | 7:49:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.1 | 97.1 | 98.4 | 129.2 | 116.5 | 75.4 | 76.5 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:39:13 | 7:50:47 | 26.2 | 26.1 | 30.1 | 60.1 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 97.9 | 97.0 | 97.1 | 98.4 | 129.0 | 116.5 | 75.4 | 76.5 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:40:13 | 7:51:47 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 133.7 | 116.4 | 75.4 | 76.5 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:41:13 | 7:52:48 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 133.9 | 116.3 | 75.5 | 76.6 | 107.6 | 669.6 | 387.3 | 446.7 |
| 12:42:13 | 7:53:48 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 133.8 | 116.2 | 75.4 | 76.6 | 107.6 | 669.6 | 387.3 | 446.7 |
| 12:43:14 | 7:54:48 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 97.9 | 97.0 | 96.8 | 98.1 | 133.7 | 116.1 | 75.4 | 76.6 | 107.6 | 669.6 | 387.3 | 446.6 |
| 12:44:14 | 7:55:48 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.2 | 133.8 | 116.1 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 446.6 |
| 12:45:14 | 7:56:48 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.8 | 98.1 | 133.6 | 116.0 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 446.7 |
| 12:46:14 | 7:57:48 | 26.2 | 26.1 | 30.1 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 96.8 | 98.1 | 133.6 | 116.0 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 446.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000080

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:47:14 | 7:58:48 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 133.6 | 115.8 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 446.6 |
| 12:48:14 | 7:59:48 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.6 | 98.0 | 133.5 | 115.8 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 445.1 |
| 12:49:14 | 8:00:48 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 133.7 | 115.7 | 75.5 | 76.6 | 107.5 | 669.6 | 387.3 | 446.6 |
| 12:50:14 | 8:01:48 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 133.5 | 115.7 | 75.6 | 76.6 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:51:14 | 8:02:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 133.4 | 115.6 | 75.6 | 76.6 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:52:14 | 8:03:49 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 133.4 | 115.5 | 75.5 | 76.6 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:53:15 | 8:04:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.8 | 96.8 | 96.4 | 97.8 | 133.4 | 115.4 | 75.5 | 76.6 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:54:15 | 8:05:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.4 | 97.8 | 133.4 | 115.4 | 75.6 | 76.6 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:55:15 | 8:06:49 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 100.7 | 113.2 | 133.2 | 115.3 | 75.5 | 76.5 | 107.3 | 669.6 | 387.3 | 445.1 |
| 12:56:15 | 8:07:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.4 | 98.3 | 98.0 | 98.0 | 97.0 | 105.0 | 124.4 | 133.2 | 115.2 | 75.5 | 76.5 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:57:15 | 8:08:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.4 | 98.2 | 98.1 | 97.1 | 99.6 | 105.7 | 133.1 | 115.1 | 75.4 | 76.4 | 107.4 | 669.6 | 387.3 | 445.1 |
| 12:58:15 | 8:09:49 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 97.4 | 98.0 | 133.0 | 115.1 | 75.5 | 76.4 | 107.4 | 669.6 | 387.3 | 446.6 |
| 12:59:15 | 8:10:49 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 97.1 | 97.0 | 133.0 | 115.0 | 75.5 | 76.4 | 107.4 | 669.6 | 387.3 | 445.1 |
| 13:00:15 | 8:11:49 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.1 | 97.1 | 97.3 | 97.6 | 133.0 | 115.0 | 75.5 | 76.4 | 107.3 | 669.6 | 387.3 | 445.1 |
| 13:01:15 | 8:12:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.1 | 97.1 | 97.3 | 98.0 | 132.9 | 114.9 | 75.5 | 76.4 | 107.3 | 669.6 | 387.3 | 445.1 |
| 13:02:15 | 8:13:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 132.9 | 114.8 | 75.4 | 76.4 | 107.3 | 669.6 | 387.3 | 445.1 |
| 13:03:16 | 8:14:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 97.1 | 98.2 | 132.7 | 114.7 | 75.4 | 76.3 | 107.2 | 669.6 | 387.2 | 445.2 |
| 13:04:16 | 8:15:50 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 132.6 | 114.6 | 75.4 | 76.2 | 107.2 | 669.6 | 387.3 | 445.1 |
| 13:05:16 | 8:16:50 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 132.7 | 114.5 | 75.4 | 76.3 | 107.2 | 669.6 | 387.3 | 445.3 |
| 13:06:16 | 8:17:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.3 | 132.6 | 114.5 | 75.4 | 76.2 | 107.1 | 669.6 | 387.3 | 445.1 |
| 13:07:16 | 8:18:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.2 | 132.5 | 114.4 | 75.4 | 76.2 | 107.1 | 669.6 | 387.3 | 445.1 |
| 13:08:16 | 8:19:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 132.5 | 114.4 | 75.4 | 76.1 | 107.1 | 669.6 | 387.3 | 445.1 |
| 13:09:16 | 8:20:50 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 132.5 | 114.3 | 75.3 | 76.1 | 107.1 | 669.6 | 387.3 | 445.0 |
| 13:10:16 | 8:21:51 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 132.5 | 114.2 | 75.3 | 76.1 | 107.0 | 669.6 | 387.3 | 445.1 |
| 13:11:16 | 8:22:51 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.0 | 132.4 | 114.1 | 75.3 | 76.1 | 107.0 | 669.6 | 387.3 | 445.2 |
| 13:12:17 | 8:23:51 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 132.2 | 114.1 | 75.2 | 76.0 | 107.0 | 669.6 | 387.3 | 445.1 |
| 13:13:17 | 8:24:51 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 132.3 | 117.4 | 75.2 | 76.0 | 107.6 | 669.6 | 387.3 | 445.1 |
| 13:14:17 | 8:25:51 | 26.2 | 26.1 | 30.2 | 59.8 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 132.2 | 117.6 | 75.2 | 76.0 | 107.5 | 669.6 | 387.3 | 445.1 |
| 13:15:17 | 8:26:51 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.6 | 97.9 | 132.2 | 117.5 | 75.2 | 76.0 | 107.5 | 669.6 | 387.3 | 443.6 |
| 13:16:17 | 8:27:51 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.1 | 117.5 | 75.2 | 75.8 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:17:17 | 8:28:51 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 132.1 | 117.3 | 75.1 | 75.8 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:18:17 | 8:29:51 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.6 | 97.8 | 96.8 | 96.4 | 97.7 | 132.0 | 117.3 | 75.2 | 75.8 | 107.4 | 669.6 | 387.3 | 445.1 |
| 13:19:17 | 8:30:51 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 131.9 | 117.3 | 75.2 | 75.8 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:20:17 | 8:31:52 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.8 | 96.8 | 96.2 | 97.7 | 131.9 | 117.2 | 75.1 | 75.7 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:21:17 | 8:32:52 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.6 | 98.2 | 98.1 | 97.7 | 97.9 | 96.9 | 101.0 | 114.5 | 132.0 | 117.0 | 75.0 | 75.8 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:22:18 | 8:33:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 105.0 | 123.9 | 131.8 | 117.0 | 75.1 | 75.7 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:23:18 | 8:34:52 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.3 | 98.2 | 97.2 | 99.5 | 105.3 | 131.9 | 116.9 | 75.0 | 75.7 | 107.5 | 669.6 | 387.3 | 443.7 |
| 13:24:18 | 8:35:52 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.2 | 97.4 | 97.9 | 131.7 | 116.9 | 75.0 | 75.6 | 107.5 | 669.6 | 387.3 | 443.6 |
| 13:25:18 | 8:36:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 97.1 | 97.1 | 131.7 | 116.8 | 75.0 | 75.6 | 107.5 | 669.6 | 387.3 | 443.6 |
| 13:26:18 | 8:37:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.5 | 98.1 | 98.2 | 97.2 | 97.3 | 97.6 | 131.5 | 116.7 | 75.0 | 75.6 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:27:18 | 8:38:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 97.3 | 98.1 | 131.5 | 116.7 | 75.0 | 75.6 | 107.5 | 669.6 | 387.3 | 443.6 |
| 13:28:18 | 8:39:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.1 | 98.2 | 97.2 | 97.1 | 98.2 | 131.5 | 116.5 | 75.0 | 75.6 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:29:18 | 8:40:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.5 | 116.5 | 75.0 | 75.6 | 107.4 | 669.6 | 387.3 | 443.7 |
| 13:30:18 | 8:41:52 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.4 | 116.4 | 74.9 | 75.6 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:31:18 | 8:42:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.3 | 131.4 | 116.3 | 74.9 | 75.6 | 107.4 | 669.6 | 387.3 | 443.9 |
| 13:32:19 | 8:43:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.3 | 131.4 | 116.3 | 74.9 | 75.6 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:33:19 | 8:44:53 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.2 | 131.2 | 116.2 | 74.9 | 75.6 | 107.4 | 669.6 | 387.3 | 443.6 |
| 13:34:19 | 8:45:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.8 | 98.2 | 131.2 | 116.1 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 443.6 |
| 13:35:19 | 8:46:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.2 | 131.2 | 116.0 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 443.6 |
| 13:36:19 | 8:47:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.1 | 97.1 | 96.8 | 98.1 | 131.1 | 116.0 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 443.6 |
| 13:37:19 | 8:48:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.1 | 97.1 | 96.8 | 98.0 | 131.1 | 115.8 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 443.6 |
| 13:38:19 | 8:49:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 131.0 | 115.9 | 75.0 | 75.6 | 107.3 | 669.6 | 387.3 | 443.6 |
| 13:39:19 | 8:50:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 98.0 | 130.9 | 115.7 | 74.8 | 75.6 | 107.3 | 669.6 | 387.3 | 443.7 |
| 13:40:19 | 8:51:53 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 98.0 | 130.9 | 115.7 | 74.9 | 75.6 | 107.3 | 669.6 | 387.3 | 443.7 |
| 13:41:19 | 8:52:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 130.9 | 115.6 | 74.9 | 75.6 | 107.2 | 669.6 | 387.3 | 443.6 |
| 13:42:20 | 8:53:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 97.9 | 130.8 | 115.6 | 74.9 | 75.6 | 107.2 | 669.6 | 387.2 | 443.6 |
| 13:43:20 | 8:54:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 130.7 | 115.5 | 74.9 | 75.6 | 107.2 | 669.6 | 387.3 | 443.6 |
| 13:44:20 | 8:55:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.4 | 97.8 | 130.6 | 115.4 | 74.9 | 75.6 | 107.1 | 669.6 | 387.3 | 443.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000081

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13:45:20 | 8:56:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.4 | 97.8 | 130.6 | 115.3 | 74.9 | 75.6 | 107.1 | 669.6 | 387.2 | 443.6 |
| 13:46:20 | 8:57:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 96.4 | 97.7 | 130.6 | 115.2 | 74.9 | 75.7 | 107.1 | 669.6 | 387.3 | 443.7 |
| 13:47:20 | 8:58:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 130.5 | 115.2 | 74.9 | 75.7 | 107.1 | 669.6 | 387.3 | 443.6 |
| 13:48:20 | 8:59:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.8 | 96.3 | 97.7 | 130.5 | 115.1 | 74.9 | 75.7 | 107.1 | 669.6 | 387.3 | 443.6 |
| 13:49:20 | 9:00:54 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.6 | 130.4 | 115.0 | 74.8 | 75.6 | 107.0 | 669.6 | 387.3 | 443.6 |
| 13:50:20 | 9:01:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.9 | 96.2 | 97.6 | 130.3 | 115.0 | 74.8 | 75.7 | 107.1 | 669.6 | 387.3 | 443.6 |
| 13:51:20 | 9:02:55 | 26.2 | 26.1 | 30.2 | 59.3 | 100.0 | 98.0 | 97.5 | 98.2 | 98.2 | 97.7 | 97.8 | 96.8 | 96.2 | 97.5 | 130.3 | 114.9 | 74.8 | 75.7 | 107.0 | 669.6 | 387.3 | 442.1 |
| 13:52:21 | 9:03:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 96.2 | 97.5 | 130.2 | 114.8 | 74.8 | 75.7 | 107.0 | 669.6 | 387.3 | 442.1 |
| 13:53:21 | 9:04:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.8 | 96.8 | 100.7 | 113.9 | 130.2 | 114.7 | 74.8 | 75.6 | 106.9 | 669.6 | 387.2 | 442.1 |
| 13:54:21 | 9:05:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 105.0 | 125.2 | 130.2 | 114.7 | 74.8 | 75.6 | 107.0 | 669.6 | 387.2 | 442.2 |
| 13:55:21 | 9:06:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.4 | 98.2 | 98.2 | 97.1 | 99.8 | 106.3 | 130.1 | 114.6 | 74.8 | 75.7 | 107.0 | 669.6 | 387.3 | 442.1 |
| 13:56:21 | 9:07:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.4 | 98.1 | 98.6 | 98.5 | 98.2 | 98.2 | 97.1 | 97.5 | 98.2 | 130.0 | 114.6 | 74.8 | 75.6 | 107.0 | 669.6 | 387.2 | 443.6 |
| 13:57:21 | 9:08:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.4 | 98.0 | 98.6 | 98.5 | 98.2 | 98.2 | 97.2 | 97.1 | 97.0 | 130.0 | 114.5 | 74.8 | 75.6 | 107.0 | 669.6 | 387.2 | 442.2 |
| 13:58:21 | 9:09:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.2 | 97.1 | 97.1 | 97.5 | 130.0 | 114.4 | 74.8 | 75.6 | 107.0 | 669.6 | 387.3 | 442.2 |
| 13:59:21 | 9:10:55 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.9 | 130.0 | 114.4 | 74.8 | 75.6 | 107.0 | 669.6 | 387.3 | 442.1 |
| 14:00:21 | 9:11:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.1 | 130.0 | 114.3 | 74.8 | 75.6 | 107.0 | 669.6 | 387.3 | 442.1 |
| 14:01:21 | 9:12:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.2 | 129.9 | 114.2 | 74.8 | 75.6 | 106.9 | 669.6 | 387.3 | 442.1 |
| 14:02:22 | 9:13:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 98.2 | 130.0 | 114.1 | 74.8 | 75.6 | 106.9 | 669.6 | 387.2 | 442.1 |
| 14:03:22 | 9:14:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.2 | 129.7 | 114.1 | 74.8 | 75.6 | 106.9 | 669.6 | 387.3 | 442.1 |
| 14:04:22 | 9:15:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.1 | 97.1 | 96.9 | 98.2 | 129.5 | 116.6 | 74.8 | 75.6 | 108.9 | 669.6 | 387.3 | 442.1 |
| 14:05:22 | 9:16:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.2 | 129.5 | 117.6 | 74.8 | 75.6 | 107.4 | 669.6 | 387.3 | 442.1 |
| 14:06:22 | 9:17:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.8 | 98.2 | 129.4 | 117.6 | 74.8 | 75.6 | 107.4 | 669.6 | 387.3 | 442.1 |
| 14:07:22 | 9:18:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.8 | 98.1 | 129.3 | 117.5 | 74.8 | 75.6 | 107.4 | 669.6 | 387.2 | 442.1 |
| 14:08:22 | 9:19:56 | 26.2 | 26.1 | 30.2 | 59.7 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.1 | 97.1 | 96.8 | 98.1 | 129.3 | 117.4 | 74.8 | 75.6 | 107.4 | 669.6 | 387.2 | 442.1 |
| 14:09:22 | 9:20:56 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.0 | 129.3 | 117.4 | 74.8 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:10:22 | 9:21:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 98.0 | 129.2 | 117.3 | 74.8 | 75.6 | 107.4 | 669.6 | 387.2 | 442.2 |
| 14:11:22 | 9:22:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 97.9 | 129.2 | 117.2 | 74.7 | 75.6 | 107.3 | 669.6 | 387.2 | 442.1 |
| 14:12:23 | 9:23:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 98.0 | 96.9 | 96.6 | 97.9 | 129.0 | 117.1 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:13:23 | 9:24:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.4 | 97.8 | 129.0 | 117.0 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:14:23 | 9:25:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 96.4 | 97.8 | 129.0 | 117.0 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:15:23 | 9:26:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 96.4 | 97.8 | 130.0 | 116.9 | 74.7 | 75.5 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:16:23 | 9:27:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.4 | 97.7 | 133.4 | 116.9 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:17:23 | 9:28:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.6 | 98.3 | 98.3 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 133.5 | 116.8 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:18:23 | 9:29:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.6 | 133.6 | 116.7 | 74.6 | 75.6 | 107.3 | 669.6 | 387.2 | 442.1 |
| 14:19:23 | 9:30:57 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.7 | 133.7 | 116.6 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:20:23 | 9:31:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.8 | 96.2 | 97.7 | 133.4 | 116.6 | 74.7 | 75.5 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:21:23 | 9:32:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.2 | 97.5 | 133.5 | 116.4 | 74.6 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:22:24 | 9:33:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.5 | 133.5 | 116.4 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:23:24 | 9:34:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.9 | 96.8 | 99.7 | 110.8 | 133.4 | 116.3 | 74.7 | 75.5 | 107.2 | 669.6 | 387.2 | 442.2 |
| 14:24:24 | 9:35:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 97.9 | 98.0 | 96.9 | 104.0 | 121.5 | 133.4 | 116.3 | 74.6 | 75.5 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:25:24 | 9:36:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.0 | 98.8 | 103.9 | 133.4 | 116.2 | 74.6 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:26:24 | 9:37:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.4 | 98.1 | 98.1 | 97.1 | 97.1 | 97.7 | 133.3 | 116.1 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:27:24 | 9:38:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.1 | 97.0 | 96.9 | 97.3 | 133.2 | 116.0 | 74.6 | 75.5 | 107.2 | 669.6 | 387.3 | 442.1 |
| 14:28:24 | 9:39:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.9 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 97.1 | 97.7 | 133.1 | 115.9 | 74.6 | 75.6 | 107.3 | 669.6 | 387.2 | 442.1 |
| 14:29:24 | 9:40:58 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.0 | 96.9 | 97.9 | 133.0 | 115.9 | 74.6 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:30:24 | 9:41:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.1 | 97.1 | 96.9 | 98.0 | 133.0 | 115.8 | 74.6 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:31:24 | 9:42:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.9 | 98.1 | 132.9 | 115.7 | 74.7 | 75.6 | 107.3 | 669.6 | 387.3 | 442.1 |
| 14:32:25 | 9:43:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.8 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 132.9 | 115.6 | 74.6 | 75.6 | 107.2 | 669.6 | 387.3 | 442.1 |
| 14:33:25 | 9:44:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.4 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 132.9 | 115.6 | 74.7 | 75.6 | 107.2 | 669.6 | 387.3 | 442.1 |
| 14:34:25 | 9:45:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.8 | 98.1 | 132.8 | 115.5 | 74.7 | 75.7 | 107.2 | 669.6 | 387.3 | 442.1 |
| 14:35:25 | 9:46:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 98.0 | 132.8 | 115.4 | 74.7 | 75.7 | 107.2 | 669.6 | 387.3 | 442.1 |
| 14:36:25 | 9:47:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.2 | 97.8 | 98.4 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 132.6 | 115.3 | 74.6 | 75.7 | 107.1 | 669.6 | 387.2 | 442.2 |
| 14:37:25 | 9:48:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 98.0 | 132.6 | 115.3 | 74.7 | 75.8 | 107.2 | 669.6 | 387.3 | 442.2 |
| 14:38:25 | 9:49:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.9 | 98.0 | 97.0 | 96.6 | 97.9 | 132.6 | 115.2 | 74.7 | 75.7 | 107.1 | 669.6 | 387.3 | 442.1 |
| 14:39:25 | 9:50:59 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 132.6 | 115.2 | 74.7 | 75.8 | 107.1 | 669.6 | 387.3 | 442.0 |
| 14:40:25 | 9:52:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.8 | 97.9 | 96.9 | 96.6 | 97.9 | 132.5 | 115.1 | 74.8 | 75.8 | 107.1 | 669.6 | 387.3 | 442.1 |
| 14:41:25 | 9:53:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 97.9 | 96.9 | 96.4 | 97.8 | 132.5 | 115.0 | 74.7 | 75.8 | 107.1 | 669.6 | 387.2 | 442.1 |
| 14:42:26 | 9:54:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.8 | 132.5 | 115.0 | 74.7 | 75.8 | 107.1 | 669.6 | 387.3 | 442.1 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000082

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:43:26 | 9:55:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 97.9 | 96.9 | 96.3 | 97.7 | 132.3 | 114.9 | 74.7 | 75.8 | 107.0 | 669.6 | 387.3 | 442.1 |
| 14:44:26 | 9:56:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.9 | 96.2 | 97.7 | 132.4 | 114.8 | 74.7 | 75.8 | 107.0 | 669.6 | 387.2 | 442.1 |
| 14:45:26 | 9:57:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.2 | 97.7 | 132.4 | 114.8 | 74.7 | 75.8 | 107.0 | 669.6 | 387.3 | 442.1 |
| 14:46:26 | 9:58:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 98.0 | 97.6 | 98.2 | 98.2 | 97.7 | 97.9 | 96.8 | 96.2 | 97.7 | 132.3 | 114.7 | 74.7 | 75.9 | 107.0 | 669.6 | 387.3 | 442.1 |
| 14:47:26 | 9:59:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.6 | 97.8 | 96.8 | 96.2 | 97.6 | 132.2 | 114.6 | 74.7 | 75.9 | 107.0 | 669.6 | 387.3 | 442.1 |

EXPOSURE(2) SUMMARY 03/08/2015 20:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:48:26 | 10:00:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 100.2 | 112.2 | 132.1 | 114.5 | 74.7 | 75.9 | 107.0 | 669.6 | 387.2 | 442.2 |

START PRESS: 0026.2 MAX PRESS: 0026.3 MAX TEMP: 098.3 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 133.9 MAX GAS TEMP: 076.2
END PRESS: 0026.2 MIN PRESS: 0026.2 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 128.9 MIN GAS TEMP: 074.6
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.8
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

STERILANT REMOVAL 03/08/2015 20:47:46

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:48:26 | 0:00:00 | 26.2 | 26.1 | 30.2 | 59.5 | 100.0 | 97.9 | 97.5 | 98.2 | 98.1 | 97.7 | 97.9 | 96.8 | 100.2 | 112.2 | 132.1 | 114.5 | 74.7 | 75.9 | 107.0 | 669.6 | 387.2 | 442.2 |
| 14:49:26 | 0:01:00 | 25.0 | 24.9 | 30.2 | 58.1 | 100.0 | 97.8 | 97.4 | 98.0 | 97.9 | 97.5 | 97.6 | 96.6 | 98.9 | 105.4 | 132.0 | 114.4 | 74.7 | 80.6 | 107.0 | 669.6 | 387.2 | 422.5 |
| 14:50:26 | 0:02:00 | 24.4 | 24.3 | 30.2 | 57.2 | 100.0 | 97.9 | 97.6 | 98.1 | 98.0 | 97.6 | 97.7 | 96.7 | 99.0 | 104.8 | 132.0 | 114.4 | 74.7 | 82.1 | 107.0 | 669.6 | 387.2 | 411.9 |
| 14:51:26 | 0:03:00 | 23.8 | 23.7 | 30.2 | 56.8 | 100.0 | 97.9 | 97.6 | 98.1 | 98.0 | 97.7 | 97.7 | 96.7 | 99.4 | 104.9 | 131.9 | 114.4 | 74.8 | 83.2 | 107.0 | 669.6 | 387.3 | 401.4 |
| 14:52:26 | 0:04:00 | 23.2 | 23.1 | 30.2 | 55.8 | 100.0 | 97.9 | 97.6 | 98.1 | 98.0 | 97.7 | 97.7 | 96.7 | 99.3 | 104.3 | 131.9 | 114.2 | 74.7 | 84.0 | 107.0 | 669.6 | 387.2 | 389.4 |
| 14:53:26 | 0:05:00 | 22.6 | 22.5 | 30.2 | 54.9 | 100.0 | 97.9 | 97.7 | 98.1 | 98.0 | 97.9 | 97.8 | 96.8 | 99.4 | 103.8 | 131.8 | 114.2 | 74.8 | 84.7 | 107.1 | 669.6 | 387.3 | 380.3 |
| 14:54:26 | 0:06:01 | 21.9 | 21.8 | 30.2 | 54.0 | 100.0 | 97.9 | 97.7 | 98.1 | 98.0 | 97.9 | 97.8 | 96.8 | 99.4 | 103.9 | 131.7 | 114.1 | 74.8 | 85.2 | 107.0 | 669.6 | 387.2 | 366.8 |
| 14:55:27 | 0:07:01 | 21.3 | 21.2 | 30.2 | 53.6 | 100.0 | 98.0 | 97.8 | 98.1 | 98.1 | 97.9 | 97.8 | 96.8 | 99.7 | 104.3 | 131.7 | 114.1 | 74.8 | 85.6 | 107.0 | 669.6 | 387.2 | 356.2 |
| 14:56:27 | 0:08:01 | 20.6 | 20.5 | 30.2 | 52.6 | 100.0 | 98.0 | 97.8 | 98.2 | 98.1 | 97.9 | 97.9 | 96.8 | 100.2 | 105.5 | 131.6 | 117.0 | 74.8 | 86.0 | 108.9 | 669.6 | 387.2 | 344.1 |
| 14:57:27 | 0:09:01 | 20.0 | 19.9 | 30.2 | 51.8 | 100.0 | 98.1 | 97.8 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 100.8 | 107.2 | 131.6 | 117.7 | 74.8 | 86.3 | 107.7 | 669.6 | 387.3 | 332.1 |
| 14:58:27 | 0:10:01 | 19.3 | 19.2 | 30.2 | 50.8 | 100.0 | 98.1 | 97.8 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 101.3 | 109.2 | 131.6 | 117.7 | 74.8 | 86.6 | 107.7 | 669.6 | 387.3 | 320.0 |
| 14:59:27 | 0:11:01 | 18.6 | 18.5 | 30.2 | 50.4 | 100.0 | 98.1 | 97.8 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 100.6 | 108.7 | 131.5 | 117.6 | 74.8 | 86.8 | 107.7 | 669.6 | 387.3 | 309.5 |
| 15:00:27 | 0:12:01 | 18.0 | 17.9 | 30.2 | 49.5 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 99.2 | 102.7 | 131.5 | 117.6 | 74.9 | 87.0 | 107.8 | 669.6 | 387.3 | 297.4 |
| 15:01:27 | 0:13:01 | 17.3 | 17.2 | 30.2 | 48.6 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.1 | 97.9 | 96.9 | 99.9 | 103.8 | 131.5 | 117.5 | 74.9 | 87.2 | 107.8 | 669.6 | 387.3 | 286.9 |
| 15:02:27 | 0:14:01 | 16.6 | 16.5 | 30.2 | 48.1 | 100.0 | 98.2 | 98.0 | 98.2 | 98.3 | 98.0 | 97.9 | 96.9 | 101.0 | 106.8 | 131.4 | 117.4 | 74.9 | 87.4 | 107.9 | 669.6 | 387.2 | 274.8 |
| 15:03:27 | 0:15:01 | 16.0 | 15.9 | 30.2 | 47.2 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 101.6 | 109.8 | 131.3 | 117.4 | 74.9 | 87.4 | 107.9 | 669.6 | 387.2 | 264.3 |
| 15:04:27 | 0:16:02 | 15.3 | 15.2 | 30.2 | 46.3 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 99.2 | 102.7 | 131.3 | 117.2 | 74.9 | 87.6 | 107.9 | 669.6 | 387.3 | 252.2 |
| 15:05:28 | 0:17:02 | 14.6 | 14.5 | 30.2 | 45.8 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.2 | 98.0 | 97.0 | 100.0 | 103.8 | 131.2 | 117.2 | 74.9 | 87.7 | 107.9 | 669.6 | 387.3 | 240.2 |
| 15:06:28 | 0:18:02 | 13.9 | 13.8 | 30.2 | 44.5 | 100.0 | 98.2 | 98.0 | 98.2 | 98.3 | 98.1 | 97.9 | 96.9 | 101.4 | 108.0 | 131.1 | 117.1 | 74.9 | 87.8 | 107.9 | 669.6 | 387.3 | 229.6 |
| 15:07:28 | 0:19:02 | 13.2 | 13.2 | 30.2 | 44.0 | 100.0 | 98.1 | 97.9 | 98.2 | 98.2 | 98.1 | 97.9 | 96.9 | 100.8 | 108.3 | 131.0 | 117.1 | 75.0 | 87.9 | 107.9 | 669.6 | 387.2 | 217.5 |
| 15:08:28 | 0:20:02 | 12.6 | 12.5 | 30.2 | 43.1 | 99.9 | 98.1 | 98.0 | 98.2 | 98.2 | 98.1 | 97.9 | 96.9 | 99.6 | 102.1 | 131.0 | 117.0 | 75.0 | 87.9 | 108.0 | 669.6 | 387.2 | 208.5 |
| 15:09:28 | 0:21:02 | 11.9 | 11.8 | 30.2 | 42.2 | 97.9 | 98.1 | 97.9 | 98.2 | 98.2 | 98.1 | 97.9 | 96.9 | 101.0 | 106.2 | 130.9 | 116.9 | 74.9 | 88.0 | 108.0 | 669.6 | 387.2 | 196.5 |
| 15:10:28 | 0:22:02 | 11.2 | 11.2 | 30.2 | 41.3 | 95.7 | 98.1 | 98.0 | 98.2 | 98.2 | 98.1 | 98.0 | 96.9 | 101.4 | 109.6 | 130.8 | 116.8 | 75.0 | 88.0 | 108.0 | 669.6 | 387.3 | 185.9 |
| 15:11:28 | 0:23:02 | 10.5 | 10.5 | 30.2 | 40.8 | 94.6 | 98.2 | 98.0 | 98.3 | 98.2 | 98.1 | 98.0 | 96.9 | 99.5 | 101.8 | 130.8 | 116.7 | 75.0 | 88.1 | 108.0 | 669.6 | 387.2 | 175.4 |
| 15:12:28 | 0:24:02 | 9.9 | 9.8 | 30.2 | 39.9 | 92.5 | 98.1 | 98.0 | 98.2 | 98.2 | 98.1 | 98.0 | 96.9 | 100.8 | 105.7 | 130.8 | 116.6 | 75.0 | 88.2 | 108.0 | 669.6 | 387.2 | 164.8 |
| 15:13:28 | 0:25:02 | 9.2 | 9.1 | 30.2 | 39.0 | 90.5 | 98.1 | 97.9 | 98.2 | 98.2 | 98.1 | 98.0 | 96.9 | 101.6 | 109.6 | 130.7 | 116.6 | 75.0 | 88.2 | 108.0 | 669.6 | 387.2 | 154.2 |
| 15:14:28 | 0:26:03 | 8.5 | 8.5 | 30.2 | 37.7 | 87.4 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 97.9 | 96.9 | 99.5 | 101.5 | 130.7 | 116.5 | 75.0 | 88.3 | 108.0 | 669.6 | 387.3 | 143.7 |
| 15:15:29 | 0:27:03 | 7.9 | 7.8 | 30.2 | 36.8 | 85.3 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 98.0 | 96.9 | 100.9 | 105.5 | 130.6 | 116.4 | 75.1 | 88.3 | 108.0 | 669.6 | 387.3 | 133.2 |
| 15:16:29 | 0:28:03 | 7.2 | 7.2 | 30.2 | 35.8 | 83.3 | 98.0 | 97.8 | 98.2 | 98.1 | 98.1 | 98.0 | 96.9 | 101.8 | 109.7 | 130.5 | 116.3 | 75.0 | 88.3 | 108.0 | 669.6 | 387.3 | 121.2 |
| 15:17:29 | 0:29:03 | 6.6 | 6.6 | 30.2 | 34.9 | 81.0 | 98.1 | 97.9 | 98.3 | 98.2 | 98.0 | 97.9 | 96.8 | 99.4 | 101.3 | 130.4 | 116.2 | 75.0 | 88.2 | 108.0 | 669.6 | 387.2 | 111.4 |
| 15:18:29 | 0:30:03 | 6.1 | 6.1 | 30.2 | 34.0 | 78.9 | 98.1 | 97.9 | 98.2 | 98.2 | 98.0 | 98.0 | 96.8 | 100.7 | 105.0 | 130.4 | 116.2 | 75.0 | 88.1 | 108.0 | 669.6 | 387.2 | 103.1 |
| 15:19:29 | 0:31:03 | 5.7 | 5.7 | 30.2 | 34.0 | 78.9 | 98.1 | 97.9 | 98.3 | 98.2 | 98.0 | 98.1 | 96.9 | 101.8 | 109.4 | 130.4 | 116.1 | 75.0 | 87.8 | 108.0 | 669.6 | 387.2 | 95.6 |
| 15:20:29 | 0:32:03 | 5.2 | 5.2 | 30.2 | 33.6 | 77.8 | 98.1 | 97.9 | 98.3 | 98.2 | 98.1 | 98.1 | 96.9 | 99.3 | 101.1 | 130.2 | 116.0 | 75.0 | 87.6 | 108.0 | 669.6 | 387.2 | 89.5 |

STERILANT REMOVAL SUMMARY 03/08/2015 21:20:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000083

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:20:42 | 0:32:16 | 5.0 | 5.0 | 30.2 | 33.1 | 76.8 | 98.1 | 97.9 | 98.3 | 98.1 | 98.0 | 98.0 | 96.9 | 100.2 | 106.0 | 130.3 | 116.0 | 75.1 | 87.7 | 108.0 | 669.6 | 387.2 | 86.5 |

START PRESS: 0026.2 MAX PRESS: 0026.2 MAX TEMP: 098.2 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 132.1 MAX GAS TEMP: 075.1
END PRESS: 0005.0 MIN PRESS: 0005.0 MIN TEMP: 096.6 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.2 MIN GAS TEMP: 074.7
PRESS CHANGE: 021.2 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

POST N2 WASH(1) 03/08/2015 21:20:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:20:42 | 0:00:00 | 5.0 | 5.0 | 30.2 | 33.1 | 76.8 | 98.1 | 97.9 | 98.3 | 98.1 | 98.0 | 98.0 | 96.9 | 100.2 | 106.0 | 130.3 | 116.0 | 75.1 | 87.7 | 108.0 | 669.6 | 387.2 | 86.5 |
| 15:21:42 | 0:01:00 | 6.3 | 6.2 | 30.2 | 34.0 | 78.0 | 98.5 | 98.3 | 98.7 | 98.6 | 98.4 | 98.5 | 97.3 | 99.7 | 102.1 | 130.2 | 115.9 | 88.5 | 87.2 | 107.9 | 669.6 | 387.2 | 91.1 |
| 15:22:42 | 0:02:00 | 7.5 | 7.5 | 30.2 | 34.0 | 77.1 | 98.9 | 98.6 | 99.1 | 99.0 | 98.8 | 98.9 | 97.6 | 101.1 | 106.3 | 130.2 | 115.8 | 99.8 | 86.6 | 108.0 | 669.6 | 387.3 | 89.5 |
| 15:23:42 | 0:03:00 | 8.8 | 8.7 | 30.2 | 34.5 | 77.6 | 99.2 | 98.9 | 99.4 | 99.2 | 99.0 | 99.0 | 97.8 | 101.5 | 109.4 | 130.2 | 115.7 | 104.6 | 85.9 | 107.9 | 669.6 | 387.2 | 88.1 |
| 15:24:42 | 0:04:00 | 10.1 | 10.0 | 30.2 | 34.9 | 78.3 | 99.3 | 99.1 | 99.7 | 99.3 | 99.2 | 99.2 | 98.0 | 99.4 | 101.0 | 130.1 | 115.5 | 106.2 | 85.3 | 107.9 | 669.6 | 387.3 | 85.1 |
| 15:25:42 | 0:05:00 | 11.3 | 11.3 | 30.2 | 34.9 | 78.2 | 99.4 | 99.1 | 99.7 | 99.4 | 99.3 | 99.3 | 98.1 | 100.5 | 104.3 | 130.0 | 115.4 | 106.8 | 84.6 | 107.9 | 669.6 | 387.3 | 85.0 |
| 15:26:42 | 0:06:00 | 12.6 | 12.5 | 30.2 | 35.8 | 79.7 | 99.5 | 99.3 | 99.8 | 99.5 | 99.4 | 99.4 | 98.2 | 101.9 | 109.1 | 129.9 | 115.2 | 107.1 | 84.1 | 107.9 | 669.6 | 387.3 | 83.5 |
| 15:27:42 | 0:07:01 | 13.9 | 13.8 | 30.2 | 35.8 | 79.8 | 99.5 | 99.3 | 99.8 | 99.6 | 99.5 | 99.5 | 98.3 | 99.4 | 102.8 | 129.8 | 115.1 | 107.2 | 83.5 | 107.8 | 669.6 | 387.3 | 83.5 |
| 15:28:42 | 0:08:01 | 15.2 | 15.1 | 30.2 | 35.8 | 79.7 | 99.6 | 99.3 | 99.8 | 99.7 | 99.6 | 99.6 | 98.4 | 100.0 | 103.1 | 129.8 | 114.9 | 107.1 | 83.1 | 107.8 | 669.6 | 387.2 | 83.5 |
| 15:29:42 | 0:09:01 | 16.4 | 16.3 | 30.2 | 36.2 | 80.3 | 99.7 | 99.4 | 100.0 | 99.8 | 99.6 | 99.5 | 98.5 | 101.7 | 107.7 | 129.8 | 114.8 | 107.2 | 82.6 | 107.8 | 669.6 | 387.2 | 83.5 |
| 15:30:43 | 0:10:01 | 17.7 | 17.6 | 30.2 | 36.8 | 81.3 | 99.8 | 99.5 | 100.0 | 99.9 | 99.6 | 99.5 | 98.5 | 100.5 | 106.7 | 129.7 | 114.7 | 107.2 | 82.3 | 107.8 | 669.6 | 387.2 | 82.0 |
| 15:31:43 | 0:11:01 | 19.0 | 18.9 | 30.2 | 36.8 | 81.3 | 99.8 | 99.5 | 100.0 | 99.9 | 99.7 | 99.6 | 98.6 | 99.7 | 101.8 | 129.7 | 114.6 | 107.2 | 81.8 | 107.6 | 669.6 | 387.3 | 82.0 |
| 15:32:43 | 0:12:01 | 20.2 | 20.1 | 30.2 | 37.7 | 83.2 | 99.8 | 99.6 | 100.0 | 100.0 | 99.7 | 99.6 | 98.6 | 101.1 | 105.9 | 129.6 | 114.5 | 107.2 | 81.5 | 107.7 | 669.6 | 387.3 | 83.5 |
| 15:33:43 | 0:13:01 | 21.5 | 21.4 | 30.2 | 37.7 | 83.2 | 99.8 | 99.6 | 100.0 | 100.0 | 99.8 | 99.6 | 98.7 | 101.6 | 109.3 | 129.5 | 114.3 | 107.1 | 81.2 | 107.6 | 669.6 | 387.2 | 82.0 |
| 15:34:43 | 0:14:01 | 22.8 | 22.7 | 30.2 | 37.7 | 83.1 | 99.9 | 99.6 | 100.1 | 100.0 | 99.8 | 99.7 | 98.8 | 99.4 | 100.9 | 129.5 | 114.2 | 107.1 | 80.9 | 107.6 | 669.6 | 387.2 | 82.0 |
| 15:35:43 | 0:15:01 | 24.0 | 23.9 | 30.2 | 38.1 | 83.7 | 100.0 | 99.8 | 100.2 | 100.2 | 99.9 | 99.7 | 98.8 | 100.5 | 104.1 | 129.5 | 114.1 | 107.0 | 80.6 | 107.6 | 669.6 | 387.3 | 84.0 |
| 15:36:43 | 0:16:02 | 25.3 | 25.2 | 30.2 | 38.6 | 84.7 | 100.0 | 99.8 | 100.2 | 100.2 | 99.9 | 99.8 | 98.9 | 102.0 | 109.1 | 129.4 | 117.5 | 107.9 | 80.4 | 108.2 | 669.6 | 387.3 | 83.5 |
| 15:37:43 | 0:17:02 | 26.6 | 26.5 | 30.2 | 38.6 | 84.7 | 100.0 | 99.8 | 100.2 | 100.2 | 100.0 | 99.8 | 98.9 | 99.3 | 101.8 | 129.4 | 117.5 | 109.0 | 80.1 | 108.0 | 669.6 | 387.2 | 83.5 |
| 15:38:43 | 0:18:02 | 27.9 | 27.8 | 30.2 | 38.6 | 84.4 | 100.1 | 99.9 | 100.3 | 100.3 | 100.0 | 99.8 | 99.0 | 100.3 | 103.3 | 129.4 | 117.4 | 109.5 | 79.9 | 108.0 | 669.6 | 387.3 | 83.5 |

POST N2 WASH(1) SUMMARY 03/08/2015 21:38:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:39:13 | 0:18:32 | 28.5 | 28.4 | 30.2 | 39.0 | 85.6 | 100.1 | 99.8 | 100.2 | 100.3 | 100.0 | 99.8 | 99.0 | 99.3 | 101.7 | 129.3 | 117.3 | 109.7 | 79.8 | 108.0 | 669.6 | 387.2 | 83.5 |

START PRESS: 0005.0 MAX PRESS: 0028.5 MAX TEMP: 100.0 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 130.3 MAX GAS TEMP: 109.7
END PRESS: 0028.5 MIN PRESS: 0005.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 129.3 MIN GAS TEMP: 075.1
PRESS CHANGE: 023.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

POST EVACUATION(1) 03/08/2015 21:38:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:39:13 | 0:00:00 | 28.5 | 28.4 | 30.2 | 39.0 | 85.6 | 100.1 | 99.8 | 100.2 | 100.3 | 100.0 | 99.8 | 99.0 | 99.3 | 101.7 | 129.3 | 117.3 | 109.7 | 79.8 | 108.0 | 669.6 | 387.2 | 83.5 |
| 15:40:13 | 0:01:00 | 26.8 | 26.7 | 30.2 | 37.7 | 84.3 | 99.4 | 99.1 | 99.4 | 99.6 | 99.4 | 99.1 | 98.4 | 100.3 | 103.6 | 129.3 | 117.2 | 107.3 | 83.5 | 108.0 | 669.6 | 387.3 | 77.5 |
| 15:41:13 | 0:02:00 | 25.5 | 25.4 | 30.2 | 36.8 | 82.9 | 99.1 | 98.8 | 99.1 | 99.3 | 99.1 | 98.8 | 98.1 | 101.9 | 108.8 | 129.2 | 117.2 | 104.3 | 85.3 | 108.0 | 669.6 | 387.3 | 71.4 |
| 15:42:13 | 0:03:00 | 24.2 | 24.1 | 30.2 | 35.8 | 81.0 | 99.0 | 98.7 | 99.1 | 99.3 | 98.9 | 98.7 | 98.0 | 99.4 | 100.6 | 129.0 | 117.1 | 101.4 | 86.4 | 107.9 | 669.6 | 387.2 | 65.4 |
| 15:43:14 | 0:04:00 | 22.9 | 22.8 | 30.2 | 35.4 | 80.3 | 98.9 | 98.6 | 98.9 | 99.2 | 98.8 | 98.7 | 97.9 | 100.7 | 104.4 | 129.0 | 117.0 | 99.1 | 87.4 | 108.0 | 669.6 | 387.2 | 62.4 |
| 15:44:14 | 0:05:00 | 21.6 | 21.5 | 30.2 | 34.9 | 79.4 | 98.8 | 98.6 | 98.8 | 99.1 | 98.7 | 98.5 | 97.8 | 101.7 | 109.0 | 129.0 | 116.9 | 96.9 | 88.0 | 108.0 | 669.6 | 387.2 | 57.9 |
| 15:45:14 | 0:06:00 | 20.2 | 20.1 | 30.2 | 34.0 | 77.5 | 98.7 | 98.5 | 98.7 | 99.0 | 98.6 | 98.4 | 97.7 | 99.5 | 101.1 | 129.8 | 116.9 | 94.9 | 88.6 | 108.0 | 669.6 | 387.3 | 54.9 |
| 15:46:14 | 0:07:01 | 18.9 | 18.8 | 30.2 | 33.6 | 76.5 | 98.7 | 98.5 | 98.7 | 99.0 | 98.6 | 98.4 | 97.7 | 101.0 | 105.3 | 133.5 | 116.8 | 93.2 | 89.0 | 108.0 | 669.6 | 387.2 | 51.9 |
| 15:47:14 | 0:08:01 | 17.6 | 17.5 | 30.2 | 33.1 | 75.7 | 98.6 | 98.3 | 98.6 | 98.9 | 98.5 | 98.3 | 97.6 | 101.1 | 108.1 | 133.6 | 116.7 | 91.7 | 89.3 | 108.0 | 669.6 | 387.3 | 47.4 |
| 15:48:14 | 0:09:01 | 16.2 | 16.1 | 30.2 | 32.2 | 73.9 | 98.5 | 98.2 | 98.6 | 98.8 | 98.4 | 98.2 | 97.6 | 99.7 | 101.7 | 133.3 | 116.6 | 90.3 | 89.6 | 108.0 | 669.6 | 387.3 | 44.4 |
| 15:49:14 | 0:10:01 | 14.8 | 14.8 | 30.2 | 31.8 | 72.8 | 98.5 | 98.2 | 98.6 | 98.8 | 98.3 | 98.2 | 97.5 | 101.3 | 106.6 | 133.4 | 116.6 | 89.1 | 89.8 | 108.0 | 669.6 | 387.2 | 41.4 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000084

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:50:14 | 0:11:01 | 13.5 | 13.4 | 30.2 | 31.3 | 71.9 | 98.4 | 98.1 | 98.6 | 98.7 | 98.2 | 98.1 | 97.4 | 100.5 | 106.3 | 133.3 | 116.6 | 88.1 | 89.9 | 108.0 | 669.6 | 387.3 | 38.3 |
| 15:51:14 | 0:12:01 | 12.1 | 12.0 | 30.2 | 30.4 | 70.1 | 98.3 | 98.0 | 98.4 | 98.6 | 98.2 | 98.1 | 97.3 | 99.9 | 102.1 | 133.4 | 116.4 | 87.1 | 90.1 | 108.0 | 669.6 | 387.2 | 33.8 |
| 15:52:14 | 0:13:01 | 10.8 | 10.7 | 30.2 | 29.9 | 69.1 | 98.3 | 98.0 | 98.3 | 98.5 | 98.2 | 98.1 | 97.3 | 101.6 | 107.4 | 133.4 | 116.3 | 86.2 | 90.2 | 108.0 | 669.6 | 387.3 | 30.8 |
| 15:53:15 | 0:14:01 | 9.5 | 9.4 | 30.2 | 29.0 | 67.2 | 98.2 | 97.9 | 98.2 | 98.4 | 98.1 | 98.0 | 97.2 | 99.8 | 104.3 | 133.2 | 116.3 | 85.4 | 90.2 | 108.0 | 669.6 | 387.3 | 27.9 |
| 15:54:15 | 0:15:01 | 8.1 | 8.1 | 30.2 | 28.6 | 66.3 | 98.1 | 97.8 | 98.2 | 98.4 | 97.9 | 97.9 | 97.1 | 100.1 | 102.8 | 133.1 | 116.2 | 84.8 | 90.3 | 108.0 | 669.6 | 387.3 | 23.3 |
| 15:55:15 | 0:16:01 | 6.8 | 6.8 | 30.2 | 27.7 | 64.3 | 98.0 | 97.7 | 98.1 | 98.3 | 97.9 | 97.8 | 97.0 | 101.8 | 108.1 | 133.1 | 116.2 | 84.1 | 90.3 | 108.0 | 669.6 | 387.3 | 20.3 |
| 15:56:15 | 0:17:02 | 5.6 | 5.5 | 30.2 | 26.8 | 62.4 | 97.9 | 97.6 | 98.0 | 98.2 | 97.8 | 97.8 | 96.9 | 99.3 | 101.6 | 133.1 | 116.1 | 83.6 | 90.2 | 108.0 | 669.6 | 387.2 | 15.8 |
| 15:57:15 | 0:18:02 | 4.5 | 4.4 | 30.2 | 25.9 | 60.2 | 98.0 | 97.6 | 98.1 | 98.2 | 97.7 | 97.7 | 96.8 | 100.5 | 103.8 | 133.0 | 116.0 | 83.1 | 90.1 | 108.0 | 669.6 | 387.2 | 12.8 |
| 15:58:15 | 0:19:02 | 3.7 | 3.7 | 30.2 | 25.9 | 60.4 | 97.9 | 97.5 | 98.0 | 98.1 | 97.7 | 97.9 | 96.8 | 101.7 | 109.0 | 133.1 | 115.9 | 82.5 | 89.8 | 108.0 | 669.6 | 387.2 | 9.8 |
| 15:59:15 | 0:20:02 | 3.1 | 3.1 | 30.2 | 25.0 | 58.1 | 98.0 | 97.6 | 98.2 | 98.1 | 97.8 | 97.9 | 96.9 | 99.5 | 101.1 | 133.1 | 115.9 | 82.2 | 89.5 | 108.0 | 669.6 | 387.2 | 8.2 |
| 16:00:15 | 0:21:02 | 2.7 | 2.7 | 30.2 | 25.0 | 57.9 | 98.1 | 97.7 | 98.3 | 98.2 | 97.8 | 98.1 | 96.9 | 101.0 | 105.3 | 132.9 | 115.8 | 81.8 | 88.9 | 107.9 | 669.6 | 387.3 | 8.2 |
| 16:01:15 | 0:22:02 | 2.4 | 2.4 | 30.2 | 25.0 | 57.8 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.2 | 96.9 | 101.1 | 108.2 | 132.8 | 115.7 | 81.6 | 88.4 | 107.9 | 669.6 | 387.3 | 6.8 |
| 16:02:16 | 0:23:02 | 2.2 | 2.2 | 30.2 | 25.4 | 58.8 | 98.2 | 97.7 | 98.6 | 98.3 | 97.9 | 98.3 | 97.0 | 99.7 | 101.6 | 132.9 | 115.7 | 81.2 | 87.8 | 108.0 | 669.6 | 387.2 | 6.8 |
| 16:03:16 | 0:24:02 | 2.1 | 2.1 | 30.2 | 25.9 | 59.6 | 98.3 | 97.9 | 98.7 | 98.4 | 98.0 | 98.4 | 97.0 | 101.4 | 106.8 | 132.8 | 115.6 | 80.9 | 87.1 | 108.0 | 669.6 | 387.3 | 6.7 |
| 16:04:16 | 0:25:02 | 2.0 | 2.0 | 30.2 | 25.9 | 59.6 | 98.3 | 97.9 | 98.7 | 98.4 | 98.0 | 98.5 | 97.1 | 100.0 | 104.9 | 132.8 | 115.6 | 80.7 | 86.5 | 108.0 | 669.6 | 387.3 | 6.7 |

POST EVACUATION(1) SUMMARY 03/08/2015 22:03:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:04:19 | 0:25:06 | 2.0 | 2.0 | 30.2 | 25.8 | 59.6 | 98.3 | 97.9 | 98.7 | 98.4 | 98.0 | 98.5 | 97.1 | 100.5 | 106.4 | 132.8 | 115.5 | 80.7 | 86.5 | 108.0 | 669.6 | 387.3 | 6.7 |

START PRESS: 0028.5 MAX PRESS: 0028.5 MAX TEMP: 100.0 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 133.7 MAX GAS TEMP: 109.7
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 128.9 MIN GAS TEMP: 080.7
PRESS CHANGE: 026.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.4
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 115.5

AIR BACKFILL(1) (Loop:1/7) 03/08/2015 22:03:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:04:19 | 0:00:00 | 2.0 | 2.0 | 30.2 | 25.8 | 59.6 | 98.3 | 97.9 | 98.7 | 98.4 | 98.0 | 98.5 | 97.1 | 100.5 | 106.4 | 132.8 | 115.5 | 80.7 | 86.5 | 108.0 | 669.6 | 387.3 | 6.7 |
| 16:06:19 | 0:02:00 | 4.8 | 4.7 | 30.2 | 27.2 | 61.4 | 99.1 | 98.8 | 99.4 | 99.0 | 98.8 | 99.1 | 97.5 | 101.3 | 106.2 | 132.6 | 115.4 | 80.2 | 85.5 | 108.0 | 669.6 | 387.2 | 8.2 |
| 16:08:19 | 0:04:00 | 7.5 | 7.4 | 30.2 | 28.1 | 62.7 | 99.5 | 99.4 | 99.8 | 99.2 | 99.4 | 99.5 | 97.9 | 99.6 | 101.3 | 132.5 | 115.2 | 79.8 | 84.5 | 107.9 | 669.6 | 387.3 | 6.9 |
| 16:10:19 | 0:06:00 | 10.3 | 10.2 | 30.2 | 29.0 | 64.5 | 99.6 | 99.6 | 100.1 | 99.3 | 99.7 | 99.7 | 98.1 | 101.5 | 108.9 | 132.4 | 115.1 | 79.4 | 83.8 | 107.9 | 669.6 | 387.2 | 6.8 |
| 16:12:19 | 0:08:00 | 13.0 | 12.9 | 30.2 | 30.0 | 66.3 | 99.8 | 99.7 | 100.3 | 99.4 | 99.9 | 99.8 | 98.1 | 100.8 | 104.8 | 132.3 | 114.9 | 79.1 | 83.0 | 107.9 | 669.6 | 387.2 | 8.3 |
| 16:14:20 | 0:10:00 | 15.7 | 15.6 | 30.2 | 30.4 | 67.2 | 99.8 | 99.8 | 100.3 | 99.4 | 100.0 | 99.9 | 98.1 | 99.4 | 100.6 | 132.2 | 114.8 | 78.8 | 82.4 | 107.9 | 669.6 | 387.3 | 8.2 |
| 16:16:20 | 0:12:00 | 18.4 | 18.3 | 30.2 | 31.3 | 68.9 | 99.9 | 100.0 | 100.3 | 99.5 | 100.1 | 100.1 | 98.2 | 101.9 | 109.2 | 132.2 | 114.7 | 78.6 | 81.7 | 107.8 | 669.6 | 387.3 | 8.2 |
| 16:18:20 | 0:14:01 | 21.1 | 21.0 | 30.2 | 31.8 | 70.0 | 99.9 | 100.0 | 100.3 | 99.5 | 100.1 | 100.1 | 98.2 | 100.3 | 103.6 | 132.1 | 114.6 | 78.4 | 81.3 | 107.8 | 669.6 | 387.3 | 8.3 |
| 16:20:20 | 0:16:01 | 23.8 | 23.7 | 30.2 | 32.2 | 70.8 | 100.0 | 100.0 | 100.5 | 99.6 | 100.1 | 100.1 | 98.3 | 99.3 | 101.8 | 131.9 | 114.4 | 78.0 | 80.8 | 107.7 | 669.6 | 387.2 | 8.2 |
| 16:22:20 | 0:18:01 | 26.5 | 26.4 | 30.2 | 32.7 | 71.7 | 100.1 | 100.1 | 100.6 | 99.6 | 100.2 | 100.1 | 98.3 | 101.8 | 108.1 | 131.8 | 114.3 | 77.9 | 80.4 | 107.7 | 669.6 | 387.2 | 8.3 |

AIR BACKFILL(1) (Loop:1/7) SUMMARY 03/08/2015 22:23:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:24:19 | 0:20:00 | 29.3 | 29.2 | 30.2 | 33.1 | 72.5 | 100.2 | 100.2 | 100.7 | 99.7 | 100.3 | 100.2 | 98.4 | 100.3 | 103.3 | 131.7 | 114.2 | 77.8 | 80.1 | 107.6 | 669.6 | 387.2 | 8.3 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.3 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 132.8 MAX GAS TEMP: 080.7
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.0 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 131.7 MIN GAS TEMP: 077.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.6
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.1

POST EVACUATION(2) (Loop:1/7) 03/08/2015 22:23:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:24:19 | 0:00:00 | 29.3 | 29.2 | 30.2 | 33.1 | 72.5 | 100.2 | 100.2 | 100.7 | 99.7 | 100.3 | 100.2 | 98.4 | 100.3 | 103.3 | 131.7 | 114.2 | 77.8 | 80.1 | 107.6 | 669.6 | 387.2 | 8.3 |

Copy



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000085

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:26:19 | 0:02:00 | 26.2 | 26.1 | 30.2 | 31.8 | 71.2 | 99.3 | 99.1 | 99.6 | 99.2 | 99.2 | 99.2 | 97.9 | 99.3 | 100.6 | 131.6 | 114.4 | 77.6 | 85.5 | 108.0 | 669.6 | 387.2 | 6.7 |
| 16:28:19 | 0:04:00 | 23.7 | 23.6 | 30.2 | 30.9 | 69.7 | 99.1 | 98.8 | 99.3 | 99.2 | 99.0 | 98.9 | 97.8 | 101.8 | 109.1 | 131.5 | 117.6 | 77.5 | 87.5 | 108.1 | 669.6 | 387.3 | 0.7 |
| 16:30:19 | 0:06:00 | 21.0 | 20.9 | 30.2 | 30.0 | 68.0 | 98.9 | 98.6 | 99.1 | 99.0 | 98.8 | 98.7 | 97.7 | 101.0 | 105.3 | 131.4 | 117.6 | 77.3 | 88.6 | 108.1 | 669.6 | 387.2 | 0.7 |
| 16:32:19 | 0:08:00 | 18.3 | 18.2 | 30.2 | 29.0 | 66.1 | 98.8 | 98.5 | 98.9 | 98.9 | 98.6 | 98.7 | 97.6 | 99.8 | 101.8 | 131.2 | 117.4 | 77.2 | 89.3 | 108.2 | 669.6 | 387.2 | 0.7 |
| 16:34:19 | 0:10:00 | 15.6 | 15.6 | 30.2 | 28.6 | 65.4 | 98.6 | 98.3 | 98.7 | 98.8 | 98.5 | 98.5 | 97.4 | 100.0 | 104.7 | 131.2 | 117.3 | 77.1 | 89.7 | 108.2 | 669.6 | 387.3 | 0.7 |
| 16:36:19 | 0:12:00 | 13.0 | 12.9 | 30.2 | 27.7 | 63.4 | 98.5 | 98.2 | 98.7 | 98.7 | 98.4 | 98.4 | 97.4 | 101.8 | 107.7 | 131.0 | 117.1 | 76.8 | 89.9 | 108.1 | 669.6 | 387.3 | 0.7 |
| 16:38:19 | 0:14:01 | 10.3 | 10.2 | 30.2 | 26.8 | 61.7 | 98.3 | 98.0 | 98.6 | 98.5 | 98.2 | 98.2 | 97.2 | 100.3 | 103.3 | 130.9 | 116.9 | 76.8 | 90.0 | 108.2 | 669.6 | 387.2 | 0.7 |
| 16:40:20 | 0:16:01 | 7.6 | 7.6 | 30.2 | 25.9 | 59.9 | 98.2 | 97.8 | 98.4 | 98.3 | 98.0 | 98.1 | 96.9 | 99.4 | 100.6 | 130.9 | 116.7 | 76.6 | 90.0 | 108.2 | 669.6 | 387.3 | 0.7 |
| 16:42:20 | 0:18:01 | 5.1 | 5.0 | 30.2 | 24.5 | 57.1 | 97.9 | 97.6 | 98.1 | 98.0 | 97.8 | 97.9 | 96.8 | 101.7 | 109.1 | 130.7 | 116.6 | 76.4 | 89.9 | 108.2 | 669.6 | 387.2 | 0.7 |
| 16:44:20 | 0:20:01 | 3.3 | 3.2 | 30.2 | 23.6 | 55.0 | 97.9 | 97.6 | 98.2 | 98.0 | 97.7 | 98.0 | 96.7 | 101.1 | 105.7 | 130.6 | 116.5 | 76.4 | 89.4 | 108.2 | 669.6 | 387.2 | 0.7 |
| 16:46:20 | 0:22:01 | 2.3 | 2.2 | 30.2 | 23.6 | 54.9 | 98.0 | 97.6 | 98.4 | 98.0 | 97.8 | 98.2 | 96.8 | 99.7 | 101.3 | 130.6 | 116.4 | 76.4 | 88.3 | 108.1 | 669.6 | 387.3 | 0.7 |

POST EVACUATION(2) (Loop:1/7) SUMMARY 03/08/2015 22:46:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:47:14 | 0:22:55 | 2.0 | 2.0 | 30.2 | 23.5 | 54.6 | 98.1 | 97.7 | 98.6 | 98.1 | 97.8 | 98.2 | 96.8 | 101.5 | 107.0 | 130.6 | 116.3 | 76.3 | 87.9 | 108.1 | 669.6 | 387.3 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 100.3 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 131.8 MAX GAS TEMP: 077.9
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.5 MIN GAS TEMP: 076.3
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:2/7) 03/08/2015 22:46:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:47:14 | 0:00:00 | 2.0 | 2.0 | 30.2 | 23.5 | 54.6 | 98.1 | 97.7 | 98.6 | 98.1 | 97.8 | 98.2 | 96.8 | 101.5 | 107.0 | 130.6 | 116.3 | 76.3 | 87.9 | 108.1 | 669.6 | 387.3 | 0.7 |
| 16:49:14 | 0:02:00 | 4.7 | 4.7 | 30.2 | 25.0 | 56.6 | 98.9 | 98.6 | 99.3 | 98.8 | 98.7 | 99.1 | 97.4 | 99.8 | 102.0 | 130.4 | 116.1 | 76.2 | 86.7 | 108.0 | 669.6 | 387.2 | 0.8 |
| 16:51:15 | 0:04:00 | 7.5 | 7.4 | 30.2 | 25.9 | 57.8 | 99.4 | 99.2 | 99.8 | 99.1 | 99.4 | 99.6 | 97.8 | 100.6 | 107.0 | 130.2 | 115.9 | 76.1 | 85.5 | 108.0 | 669.6 | 387.2 | 0.7 |
| 16:53:15 | 0:06:00 | 10.2 | 10.1 | 30.2 | 27.2 | 60.4 | 99.7 | 99.6 | 100.2 | 99.3 | 99.7 | 99.8 | 97.9 | 101.2 | 105.9 | 130.1 | 115.8 | 76.0 | 84.4 | 107.9 | 669.6 | 387.3 | 0.7 |
| 16:55:15 | 0:08:00 | 12.9 | 12.8 | 30.2 | 27.7 | 61.2 | 99.8 | 99.8 | 100.3 | 99.3 | 99.9 | 100.1 | 98.0 | 99.5 | 101.1 | 130.1 | 115.7 | 75.9 | 83.4 | 107.9 | 669.6 | 387.3 | 0.7 |
| 16:57:15 | 0:10:00 | 15.6 | 15.6 | 30.2 | 28.1 | 62.0 | 99.9 | 99.9 | 100.5 | 99.4 | 100.1 | 100.1 | 98.1 | 101.8 | 109.3 | 130.0 | 115.5 | 75.9 | 82.5 | 107.9 | 669.6 | 387.3 | 0.7 |
| 16:59:15 | 0:12:00 | 18.3 | 18.2 | 30.2 | 29.0 | 63.9 | 100.0 | 100.0 | 100.5 | 99.5 | 100.1 | 100.1 | 98.1 | 100.4 | 103.8 | 129.8 | 115.4 | 75.8 | 81.7 | 107.7 | 669.6 | 387.3 | 0.7 |
| 17:01:15 | 0:14:01 | 21.1 | 21.0 | 30.2 | 29.0 | 63.8 | 100.0 | 100.0 | 100.6 | 99.5 | 100.2 | 100.2 | 98.3 | 99.4 | 102.7 | 129.7 | 115.2 | 75.7 | 81.1 | 107.7 | 669.6 | 387.3 | 0.7 |
| 17:03:15 | 0:16:01 | 23.9 | 23.8 | 30.2 | 29.9 | 65.6 | 100.1 | 100.1 | 100.7 | 99.6 | 100.2 | 100.2 | 98.3 | 101.8 | 108.2 | 129.6 | 115.1 | 75.6 | 80.5 | 107.6 | 669.6 | 387.2 | 0.7 |
| 17:05:15 | 0:18:01 | 26.5 | 26.4 | 30.2 | 30.0 | 65.5 | 100.2 | 100.2 | 100.7 | 99.7 | 100.3 | 100.3 | 98.4 | 100.0 | 102.7 | 129.5 | 114.9 | 75.5 | 80.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 17:07:15 | 0:20:01 | 29.3 | 29.2 | 30.2 | 30.8 | 67.3 | 100.3 | 100.3 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 99.6 | 103.3 | 129.4 | 114.8 | 75.4 | 79.6 | 107.6 | 669.6 | 387.2 | 0.7 |

AIR BACKFILL(1) (Loop:2/7) SUMMARY 03/08/2015 23:06:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:07:15 | 0:20:01 | 29.3 | 29.2 | 30.2 | 30.9 | 67.3 | 100.3 | 100.3 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 99.6 | 103.3 | 129.4 | 114.8 | 75.5 | 79.6 | 107.6 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.4 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 130.6 MAX GAS TEMP: 076.4
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 129.4 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.3
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.8

POST EVACUATION(2) (Loop:2/7) 03/08/2015 23:06:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:07:16 | 0:00:00 | 29.3 | 29.2 | 30.2 | 30.9 | 67.3 | 100.3 | 100.3 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 99.6 | 103.3 | 129.4 | 114.8 | 75.5 | 79.6 | 107.6 | 669.6 | 387.3 | 0.7 |
| 17:09:16 | 0:02:00 | 26.3 | 26.2 | 30.2 | 29.9 | 67.1 | 99.3 | 99.1 | 99.7 | 99.3 | 99.3 | 99.3 | 98.0 | 102.0 | 108.7 | 129.4 | 114.8 | 75.4 | 85.0 | 107.5 | 669.6 | 387.2 | 0.7 |
| 17:11:16 | 0:04:00 | 23.7 | 23.6 | 30.2 | 29.0 | 65.3 | 99.2 | 98.9 | 99.4 | 99.2 | 99.1 | 99.1 | 97.9 | 100.6 | 104.1 | 129.3 | 114.5 | 75.3 | 87.1 | 107.4 | 669.6 | 387.2 | 0.7 |
| 17:13:16 | 0:06:00 | 21.0 | 20.9 | 30.2 | 28.1 | 63.5 | 99.0 | 98.8 | 99.3 | 99.1 | 98.9 | 99.0 | 97.8 | 99.5 | 101.1 | 129.2 | 114.4 | 75.3 | 88.3 | 107.4 | 669.6 | 387.2 | 0.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000086

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:15:16 | 0:08:00 | 18.4 | 18.3 | 30.2 | 27.7 | 62.9 | 98.8 | 98.5 | 99.1 | 98.9 | 98.7 | 98.8 | 97.7 | 100.7 | 106.9 | 129.0 | 114.3 | 75.2 | 89.1 | 107.4 | 669.6 | 387.2 | 0.7 |
| 17:17:16 | 0:10:00 | 15.7 | 15.6 | 30.2 | 27.2 | 62.1 | 98.7 | 98.4 | 98.9 | 98.8 | 98.6 | 98.7 | 97.6 | 101.4 | 106.6 | 133.0 | 114.2 | 75.2 | 89.4 | 107.4 | 669.6 | 387.3 | 0.7 |
| 17:19:16 | 0:12:00 | 13.0 | 12.9 | 30.2 | 26.3 | 60.2 | 98.6 | 98.3 | 98.8 | 98.7 | 98.4 | 98.5 | 97.4 | 100.1 | 102.5 | 133.1 | 117.0 | 75.2 | 89.8 | 108.5 | 669.6 | 387.3 | 0.7 |
| 17:21:16 | 0:14:01 | 10.3 | 10.2 | 30.2 | 25.4 | 58.3 | 98.5 | 98.1 | 98.7 | 98.6 | 98.2 | 98.4 | 97.3 | 99.3 | 101.0 | 133.3 | 117.5 | 75.1 | 89.9 | 107.9 | 669.6 | 387.2 | 0.7 |
| 17:23:16 | 0:16:01 | 7.6 | 7.6 | 30.2 | 25.0 | 57.6 | 98.3 | 97.9 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 101.9 | 109.2 | 133.2 | 117.4 | 75.2 | 90.0 | 107.9 | 669.6 | 387.2 | 0.7 |
| 17:25:16 | 0:18:01 | 5.1 | 5.0 | 30.2 | 23.6 | 54.8 | 98.1 | 97.7 | 98.3 | 98.2 | 97.9 | 98.1 | 96.9 | 100.9 | 105.0 | 133.2 | 117.3 | 75.1 | 89.9 | 108.0 | 669.6 | 387.2 | 0.7 |
| 17:27:17 | 0:20:01 | 3.2 | 3.2 | 30.2 | 23.1 | 53.8 | 98.0 | 97.6 | 98.4 | 98.1 | 97.8 | 98.1 | 96.8 | 99.8 | 101.8 | 133.0 | 117.2 | 75.2 | 89.4 | 108.0 | 669.6 | 387.3 | 0.7 |
| 17:29:17 | 0:22:01 | 2.2 | 2.2 | 30.2 | 22.7 | 52.5 | 98.1 | 97.7 | 98.6 | 98.2 | 97.9 | 98.4 | 96.9 | 100.2 | 105.4 | 132.9 | 117.0 | 75.1 | 88.5 | 108.0 | 669.6 | 387.3 | 0.8 |

POST EVACUATION(2) (Loop:2/7) SUMMARY 03/08/2015 23:29:16

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:29:56 | 0:22:41 | 2.0 | 2.0 | 30.2 | 22.2 | 51.4 | 98.2 | 97.8 | 98.7 | 98.2 | 97.9 | 98.4 | 96.9 | 101.0 | 105.3 | 132.9 | 117.0 | 75.2 | 88.1 | 108.0 | 669.6 | 387.3 | 0.8 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 100.4 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.3 MAX GAS TEMP: 075.5
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.1
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:3/7) 03/08/2015 23:29:16

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:29:56 | 0:00:00 | 2.0 | 2.0 | 30.2 | 22.2 | 51.4 | 98.2 | 97.8 | 98.7 | 98.2 | 97.9 | 98.4 | 96.9 | 101.0 | 105.3 | 132.9 | 117.0 | 75.2 | 88.1 | 108.0 | 669.6 | 387.3 | 0.8 |
| 17:31:56 | 0:02:00 | 4.8 | 4.8 | 30.2 | 24.0 | 54.4 | 98.9 | 98.6 | 99.4 | 98.8 | 98.7 | 99.2 | 97.4 | 99.5 | 101.0 | 132.9 | 116.8 | 75.1 | 87.0 | 108.0 | 669.6 | 387.3 | 0.7 |
| 17:33:56 | 0:04:00 | 7.6 | 7.5 | 30.2 | 25.0 | 55.7 | 99.5 | 99.3 | 100.0 | 99.2 | 99.4 | 99.7 | 97.9 | 101.7 | 109.1 | 132.7 | 116.6 | 75.1 | 85.7 | 108.0 | 669.6 | 387.3 | 0.8 |
| 17:35:56 | 0:06:00 | 10.3 | 10.3 | 30.2 | 25.9 | 57.1 | 99.8 | 99.8 | 100.3 | 99.4 | 99.8 | 100.1 | 98.1 | 100.5 | 104.1 | 132.6 | 116.5 | 75.1 | 84.6 | 108.0 | 669.6 | 387.2 | 0.7 |
| 17:37:57 | 0:08:00 | 12.9 | 12.9 | 30.2 | 26.3 | 57.9 | 99.9 | 99.9 | 100.5 | 99.5 | 100.0 | 100.1 | 98.1 | 99.3 | 101.2 | 132.5 | 116.4 | 75.1 | 83.6 | 107.9 | 669.6 | 387.2 | 0.7 |
| 17:39:57 | 0:10:00 | 15.7 | 15.6 | 30.2 | 26.8 | 58.8 | 100.0 | 100.0 | 100.6 | 99.5 | 100.2 | 100.2 | 98.2 | 101.9 | 108.3 | 132.4 | 116.2 | 75.1 | 82.7 | 107.9 | 669.6 | 387.3 | 0.7 |
| 17:41:57 | 0:12:00 | 18.4 | 18.3 | 30.2 | 27.2 | 59.8 | 100.0 | 100.0 | 100.7 | 99.5 | 100.3 | 100.4 | 98.3 | 100.0 | 102.4 | 132.2 | 116.0 | 75.0 | 82.0 | 107.9 | 669.6 | 387.2 | 0.7 |
| 17:43:57 | 0:14:01 | 21.0 | 20.9 | 30.2 | 28.1 | 61.5 | 100.2 | 100.2 | 100.8 | 99.7 | 100.2 | 100.3 | 98.3 | 100.7 | 107.0 | 132.2 | 115.9 | 75.0 | 81.3 | 107.8 | 669.6 | 387.3 | 0.7 |
| 17:45:57 | 0:16:01 | 23.9 | 23.8 | 30.2 | 28.1 | 61.5 | 100.2 | 100.2 | 100.8 | 99.7 | 100.4 | 100.4 | 98.4 | 101.2 | 106.1 | 132.0 | 115.8 | 75.0 | 80.8 | 107.8 | 669.6 | 387.2 | 0.7 |
| 17:47:57 | 0:18:01 | 26.5 | 26.4 | 30.2 | 28.6 | 62.3 | 100.3 | 100.3 | 100.9 | 99.8 | 100.5 | 100.5 | 98.5 | 99.7 | 101.5 | 132.0 | 115.6 | 75.1 | 80.4 | 107.8 | 669.6 | 387.2 | 0.7 |
| 17:49:57 | 0:20:01 | 29.2 | 29.1 | 30.2 | 29.0 | 63.2 | 100.3 | 100.3 | 101.0 | 99.8 | 100.5 | 100.6 | 98.6 | 100.5 | 106.5 | 131.9 | 115.5 | 75.0 | 80.0 | 107.7 | 669.6 | 387.3 | 0.7 |

AIR BACKFILL(1) (Loop:3/7) SUMMARY 03/08/2015 23:49:20

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:50:00 | 0:20:03 | 29.3 | 29.2 | 30.2 | 29.0 | 63.2 | 100.3 | 100.3 | 101.0 | 99.8 | 100.5 | 100.6 | 98.6 | 100.9 | 107.5 | 131.9 | 115.5 | 75.0 | 80.0 | 107.7 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.6 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 132.9 MAX GAS TEMP: 075.2
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 131.9 MIN GAS TEMP: 075.0
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.0
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 115.5

POST EVACUATION(2) (Loop:3/7) 03/08/2015 23:49:20

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:50:00 | 0:00:00 | 29.3 | 29.2 | 30.2 | 29.0 | 63.2 | 100.3 | 100.3 | 101.0 | 99.8 | 100.5 | 100.6 | 98.6 | 100.9 | 107.5 | 131.9 | 115.5 | 75.0 | 80.0 | 107.7 | 669.6 | 387.3 | 0.7 |
| 17:52:00 | 0:02:00 | 26.3 | 26.2 | 30.2 | 28.1 | 62.6 | 99.5 | 99.3 | 99.8 | 99.5 | 99.4 | 99.5 | 98.1 | 101.6 | 107.2 | 131.7 | 115.4 | 75.0 | 85.4 | 107.7 | 669.6 | 387.2 | 0.7 |
| 17:54:00 | 0:04:00 | 23.7 | 23.6 | 30.2 | 27.2 | 61.1 | 99.3 | 99.0 | 99.6 | 99.3 | 99.2 | 99.2 | 98.1 | 100.4 | 103.3 | 131.6 | 115.2 | 75.0 | 87.5 | 107.7 | 669.6 | 387.2 | 0.7 |
| 17:56:00 | 0:06:00 | 21.0 | 20.9 | 30.2 | 27.2 | 61.3 | 99.1 | 98.8 | 99.4 | 99.2 | 99.0 | 99.1 | 98.0 | 99.5 | 100.8 | 131.6 | 115.1 | 75.0 | 88.6 | 107.7 | 669.6 | 387.2 | 0.7 |
| 17:58:00 | 0:08:00 | 18.3 | 18.3 | 30.2 | 26.3 | 59.5 | 99.0 | 98.6 | 99.3 | 99.1 | 98.8 | 98.9 | 97.8 | 100.7 | 106.7 | 131.5 | 114.9 | 75.0 | 89.4 | 107.7 | 669.6 | 387.2 | 0.7 |
| 18:00:00 | 0:10:00 | 15.6 | 15.5 | 30.2 | 25.9 | 58.7 | 98.9 | 98.5 | 99.1 | 99.0 | 98.6 | 98.8 | 97.6 | 101.6 | 107.3 | 131.4 | 114.8 | 75.1 | 89.9 | 107.7 | 669.6 | 387.3 | 0.7 |
| 18:02:00 | 0:12:00 | 12.9 | 12.9 | 30.2 | 25.4 | 58.0 | 98.7 | 98.3 | 98.9 | 98.8 | 98.5 | 98.7 | 97.6 | 100.3 | 103.4 | 131.2 | 114.7 | 75.1 | 90.1 | 107.6 | 669.6 | 387.2 | 0.7 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000087

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:04:00 | 0:14:01 | 10.3 | 10.2 | 30.2 | 24.9 | 57.1 | 98.6 | 98.2 | 98.8 | 98.7 | 98.3 | 98.5 | 97.4 | 99.5 | 100.8 | 131.1 | 114.5 | 75.1 | 90.2 | 107.6 | 669.6 | 387.2 | 0.7 |
| 18:06:00 | 0:16:01 | 7.6 | 7.5 | 30.2 | 24.0 | 55.4 | 98.4 | 98.0 | 98.6 | 98.5 | 98.1 | 98.3 | 97.2 | 100.8 | 107.0 | 131.1 | 114.4 | 75.1 | 90.3 | 107.6 | 669.6 | 387.2 | 0.7 |
| 18:08:00 | 0:18:01 | 5.1 | 5.0 | 30.2 | 23.1 | 53.5 | 98.2 | 97.8 | 98.4 | 98.3 | 97.9 | 98.2 | 97.0 | 101.5 | 107.0 | 130.9 | 114.2 | 75.1 | 90.1 | 107.6 | 669.6 | 387.3 | 0.7 |
| 18:10:01 | 0:20:01 | 3.2 | 3.2 | 30.2 | 22.2 | 51.5 | 98.1 | 97.7 | 98.6 | 98.2 | 97.8 | 98.2 | 96.9 | 100.1 | 102.7 | 130.8 | 114.1 | 75.1 | 89.5 | 107.5 | 669.6 | 387.2 | 0.7 |
| 18:12:01 | 0:22:01 | 2.2 | 2.2 | 30.2 | 22.2 | 51.4 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.4 | 96.9 | 99.4 | 101.8 | 130.7 | 117.7 | 75.1 | 88.6 | 108.2 | 669.6 | 387.2 | 0.7 |

POST EVACUATION(2) (Loop:3/7) SUMMARY 03/09/2015 00:11:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:12:34 | 0:22:34 | 2.0 | 2.0 | 30.2 | 22.2 | 51.4 | 98.2 | 97.8 | 98.7 | 98.2 | 97.9 | 98.5 | 96.9 | 101.8 | 107.8 | 130.7 | 117.7 | 75.1 | 88.3 | 108.1 | 669.6 | 387.3 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.5 MAX TEMP: 100.6 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 131.9 MAX GAS TEMP: 075.2
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.6 MIN GAS TEMP: 075.0
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:4/7) 03/09/2015 00:11:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:12:34 | 0:00:00 | 2.0 | 2.0 | 30.2 | 22.2 | 51.4 | 98.2 | 97.8 | 98.7 | 98.2 | 97.9 | 98.5 | 96.9 | 101.8 | 107.8 | 130.7 | 117.7 | 75.1 | 88.3 | 108.1 | 669.6 | 387.3 | 0.7 |
| 18:14:34 | 0:02:00 | 4.7 | 4.7 | 30.2 | 23.6 | 53.2 | 99.1 | 98.8 | 99.7 | 98.9 | 98.8 | 99.2 | 97.5 | 99.9 | 102.3 | 130.5 | 117.6 | 75.1 | 87.2 | 108.1 | 669.6 | 387.3 | 0.7 |
| 18:16:34 | 0:04:00 | 7.4 | 7.4 | 30.2 | 24.5 | 54.4 | 99.6 | 99.4 | 100.2 | 99.3 | 99.5 | 99.7 | 97.9 | 100.2 | 105.5 | 130.5 | 117.5 | 75.1 | 86.0 | 108.1 | 669.6 | 387.3 | 0.7 |
| 18:18:34 | 0:06:00 | 10.1 | 10.1 | 30.2 | 25.0 | 55.0 | 99.9 | 99.8 | 100.5 | 99.5 | 99.9 | 100.1 | 98.3 | 101.4 | 106.7 | 130.4 | 117.3 | 75.1 | 84.8 | 108.1 | 669.6 | 387.2 | 0.7 |
| 18:20:35 | 0:08:00 | 12.8 | 12.8 | 30.2 | 25.8 | 56.7 | 100.0 | 100.0 | 100.6 | 99.6 | 100.1 | 100.2 | 98.3 | 99.6 | 101.3 | 130.2 | 117.1 | 75.1 | 83.8 | 108.1 | 669.6 | 387.3 | 0.9 |
| 18:22:35 | 0:10:00 | 15.6 | 15.5 | 30.2 | 25.9 | 56.7 | 100.1 | 100.1 | 100.7 | 99.6 | 100.2 | 100.3 | 98.3 | 101.6 | 109.3 | 130.1 | 117.0 | 75.1 | 82.9 | 108.0 | 669.6 | 387.2 | 0.7 |
| 18:24:35 | 0:12:00 | 18.3 | 18.2 | 30.2 | 26.8 | 58.5 | 100.2 | 100.1 | 100.8 | 99.7 | 100.3 | 100.4 | 98.4 | 100.8 | 104.9 | 130.1 | 116.8 | 75.1 | 82.2 | 108.1 | 669.6 | 387.3 | 0.7 |
| 18:26:35 | 0:14:01 | 21.0 | 20.9 | 30.2 | 27.2 | 59.5 | 100.2 | 100.2 | 100.8 | 99.7 | 100.3 | 100.4 | 98.5 | 99.3 | 100.6 | 130.0 | 116.7 | 75.0 | 81.5 | 108.0 | 669.6 | 387.3 | 0.7 |
| 18:28:35 | 0:16:01 | 23.8 | 23.7 | 30.2 | 27.2 | 59.3 | 100.3 | 100.3 | 100.9 | 99.8 | 100.4 | 100.5 | 98.6 | 101.9 | 109.2 | 129.8 | 116.5 | 75.0 | 81.0 | 108.0 | 669.6 | 387.2 | 0.8 |
| 18:30:35 | 0:18:01 | 26.6 | 26.5 | 30.2 | 27.7 | 60.2 | 100.4 | 100.4 | 101.0 | 99.9 | 100.5 | 100.6 | 98.6 | 100.5 | 103.9 | 129.7 | 116.4 | 75.0 | 80.4 | 107.9 | 669.6 | 387.2 | 0.7 |
| 18:32:35 | 0:20:01 | 29.2 | 29.1 | 30.2 | 28.2 | 61.3 | 100.4 | 100.4 | 101.0 | 99.9 | 100.5 | 100.8 | 98.7 | 99.3 | 100.6 | 129.6 | 116.2 | 75.0 | 80.0 | 107.9 | 669.6 | 387.3 | 0.7 |

AIR BACKFILL(1) (Loop:4/7) SUMMARY 03/09/2015 00:31:58

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:32:38 | 0:20:34 | 29.3 | 29.3 | 30.2 | 28.1 | 61.1 | 100.4 | 100.4 | 101.0 | 99.9 | 100.5 | 100.6 | 98.7 | 99.3 | 100.8 | 129.5 | 116.3 | 75.0 | 80.0 | 107.9 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 130.7 MAX GAS TEMP: 075.2
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 129.5 MIN GAS TEMP: 075.0
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.8
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 116.2

POST EVACUATION(2) (Loop:4/7) 03/09/2015 00:31:58

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:32:38 | 0:00:00 | 29.3 | 29.2 | 30.2 | 28.1 | 61.1 | 100.4 | 100.4 | 101.0 | 99.9 | 100.5 | 100.6 | 98.7 | 99.3 | 100.8 | 129.5 | 116.3 | 75.0 | 80.0 | 107.9 | 669.6 | 387.3 | 0.7 |
| 18:34:38 | 0:02:00 | 26.3 | 26.2 | 30.2 | 27.2 | 60.6 | 99.5 | 99.3 | 99.8 | 99.5 | 99.5 | 99.6 | 98.3 | 101.8 | 109.3 | 129.6 | 116.1 | 75.0 | 85.2 | 107.9 | 669.6 | 387.3 | 0.7 |
| 18:36:38 | 0:04:00 | 23.7 | 23.6 | 30.2 | 26.8 | 59.9 | 99.4 | 99.1 | 99.7 | 99.4 | 99.2 | 99.3 | 98.1 | 101.1 | 105.5 | 129.4 | 115.9 | 74.9 | 87.2 | 107.8 | 669.6 | 387.2 | 0.7 |
| 18:38:38 | 0:06:00 | 21.1 | 21.0 | 30.2 | 25.9 | 58.1 | 99.2 | 98.9 | 99.4 | 99.3 | 99.0 | 99.1 | 98.0 | 100.0 | 102.3 | 129.2 | 115.8 | 75.0 | 88.4 | 107.8 | 669.6 | 387.3 | 0.7 |
| 18:40:38 | 0:08:00 | 18.3 | 18.2 | 30.2 | 25.9 | 58.3 | 99.1 | 98.7 | 99.3 | 99.2 | 98.8 | 99.0 | 97.8 | 99.5 | 102.8 | 129.2 | 115.7 | 75.0 | 89.2 | 107.7 | 669.6 | 387.2 | 0.7 |
| 18:42:38 | 0:10:00 | 15.6 | 15.6 | 30.2 | 25.0 | 56.7 | 98.9 | 98.5 | 99.1 | 99.0 | 98.7 | 98.9 | 97.8 | 101.9 | 108.9 | 129.2 | 115.5 | 74.9 | 89.7 | 107.8 | 669.6 | 387.3 | 0.7 |
| 18:44:39 | 0:12:00 | 12.9 | 12.9 | 30.2 | 25.0 | 56.8 | 98.7 | 98.3 | 99.1 | 98.9 | 98.5 | 98.7 | 97.6 | 100.6 | 104.3 | 129.0 | 115.4 | 74.9 | 89.9 | 107.7 | 669.6 | 387.2 | 0.7 |
| 18:46:39 | 0:14:01 | 10.3 | 10.2 | 30.2 | 24.0 | 55.0 | 98.6 | 98.2 | 98.9 | 98.7 | 98.4 | 98.7 | 97.5 | 99.6 | 101.1 | 132.8 | 115.2 | 75.0 | 90.1 | 107.7 | 669.6 | 387.3 | 0.8 |
| 18:48:39 | 0:16:01 | 7.6 | 7.6 | 30.2 | 23.6 | 54.3 | 98.4 | 97.9 | 98.7 | 98.5 | 98.1 | 98.4 | 97.2 | 100.4 | 106.2 | 133.0 | 115.1 | 74.9 | 90.0 | 107.7 | 669.6 | 387.3 | 0.7 |
| 18:50:39 | 0:18:01 | 5.1 | 5.0 | 30.2 | 22.7 | 52.5 | 98.2 | 97.7 | 98.6 | 98.3 | 97.9 | 98.3 | 97.0 | 101.8 | 108.1 | 133.0 | 115.0 | 74.9 | 89.8 | 107.6 | 669.6 | 387.2 | 1.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000088

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:52:39 | 0:20:01 | 3.2 | 3.2 | 30.2 | 22.2 | 51.5 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.3 | 96.9 | 100.4 | 103.6 | 133.0 | 114.8 | 74.9 | 89.4 | 107.6 | 669.6 | 387.3 | 0.7 |
| 18:54:39 | 0:22:01 | 2.2 | 2.2 | 30.2 | 21.8 | 50.3 | 98.2 | 97.8 | 98.7 | 98.2 | 97.9 | 98.5 | 96.9 | 99.4 | 100.8 | 133.0 | 114.7 | 74.9 | 88.4 | 107.6 | 669.6 | 387.3 | 0.7 |

POST EVACUATION(2) (Loop:4/7) SUMMARY 03/09/2015 00:54:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:55:10 | 0:22:32 | 2.0 | 2.0 | 30.2 | 22.2 | 51.3 | 98.3 | 97.8 | 98.8 | 98.2 | 97.9 | 98.7 | 96.9 | 101.8 | 109.2 | 132.9 | 114.7 | 74.9 | 88.1 | 107.6 | 669.6 | 387.2 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.5 MAX TEMP: 100.6 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.4 MAX GAS TEMP: 075.1
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 128.9 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.3
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.6

AIR BACKFILL(1) (Loop:5/7) 03/09/2015 00:54:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:55:10 | 0:00:00 | 2.0 | 2.0 | 30.2 | 22.2 | 51.3 | 98.3 | 97.8 | 98.8 | 98.2 | 97.9 | 98.7 | 96.9 | 101.8 | 109.2 | 132.9 | 114.7 | 74.9 | 88.1 | 107.6 | 669.6 | 387.2 | 0.7 |
| 18:57:10 | 0:02:00 | 4.8 | 4.8 | 30.2 | 22.7 | 51.2 | 99.1 | 98.7 | 99.7 | 98.9 | 98.8 | 99.3 | 97.4 | 100.7 | 104.7 | 132.7 | 114.5 | 74.9 | 87.0 | 107.5 | 669.6 | 387.3 | 0.7 |
| 18:59:10 | 0:04:00 | 7.6 | 7.5 | 30.2 | 23.6 | 52.4 | 99.6 | 99.5 | 100.2 | 99.3 | 99.5 | 99.8 | 97.8 | 99.3 | 100.7 | 132.6 | 114.4 | 74.9 | 85.7 | 107.5 | 669.6 | 387.3 | 0.8 |
| 19:01:10 | 0:06:00 | 10.3 | 10.2 | 30.2 | 24.5 | 53.8 | 100.0 | 99.9 | 100.6 | 99.6 | 99.9 | 100.1 | 98.1 | 102.0 | 109.1 | 132.5 | 114.2 | 74.9 | 84.6 | 107.4 | 669.6 | 387.3 | 1.2 |
| 19:03:10 | 0:08:00 | 12.9 | 12.9 | 30.2 | 25.0 | 54.7 | 100.1 | 100.0 | 100.7 | 99.7 | 100.1 | 100.2 | 98.3 | 100.3 | 103.3 | 132.4 | 114.1 | 74.9 | 83.7 | 107.4 | 669.6 | 387.3 | 0.7 |
| 19:05:10 | 0:10:00 | 15.8 | 15.7 | 30.2 | 25.0 | 54.5 | 100.2 | 100.1 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 99.7 | 103.6 | 132.5 | 114.0 | 74.9 | 82.9 | 107.4 | 669.6 | 387.3 | 0.7 |
| 19:07:10 | 0:12:00 | 18.5 | 18.4 | 30.2 | 25.9 | 56.3 | 100.3 | 100.3 | 100.9 | 99.9 | 100.3 | 100.5 | 98.5 | 101.6 | 107.0 | 132.3 | 113.9 | 75.0 | 82.1 | 107.4 | 669.6 | 387.3 | 0.7 |
| 19:09:11 | 0:14:01 | 21.2 | 21.1 | 30.2 | 25.9 | 56.3 | 100.3 | 100.3 | 100.9 | 99.9 | 100.4 | 100.5 | 98.5 | 99.8 | 101.8 | 132.1 | 113.6 | 74.9 | 81.5 | 107.3 | 669.6 | 387.3 | 0.7 |
| 19:11:11 | 0:16:01 | 23.8 | 23.7 | 30.2 | 25.9 | 56.2 | 100.4 | 100.3 | 101.0 | 100.0 | 100.4 | 100.5 | 98.6 | 100.5 | 106.5 | 132.2 | 113.5 | 74.9 | 81.0 | 107.3 | 669.6 | 387.3 | 0.5 |
| 19:13:11 | 0:18:01 | 26.6 | 26.5 | 30.2 | 26.3 | 57.0 | 100.5 | 100.5 | 101.1 | 100.1 | 100.6 | 100.8 | 98.7 | 101.3 | 106.4 | 132.1 | 113.4 | 74.8 | 80.5 | 107.2 | 669.6 | 387.3 | 0.7 |
| 19:15:11 | 0:20:01 | 29.3 | 29.2 | 30.2 | 26.8 | 57.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.6 | 100.8 | 98.8 | 99.9 | 101.8 | 131.8 | 113.3 | 74.9 | 80.2 | 107.1 | 669.6 | 387.2 | 0.7 |

AIR BACKFILL(1) (Loop:5/7) SUMMARY 03/09/2015 01:14:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:15:15 | 0:20:05 | 29.3 | 29.2 | 30.2 | 26.8 | 57.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.6 | 100.8 | 98.8 | 99.7 | 101.3 | 131.8 | 113.3 | 74.9 | 80.1 | 107.1 | 669.6 | 387.2 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 132.9 MAX GAS TEMP: 075.0
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 131.8 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 113.3

POST EVACUATION(2) (Loop:5/7) 03/09/2015 01:14:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:15:15 | 0:00:00 | 29.3 | 29.2 | 30.2 | 26.8 | 57.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.6 | 100.8 | 98.8 | 99.7 | 101.3 | 131.8 | 113.3 | 74.9 | 80.1 | 107.1 | 669.6 | 387.2 | 0.7 |
| 19:17:15 | 0:02:00 | 26.3 | 26.2 | 30.2 | 25.9 | 57.5 | 99.6 | 99.3 | 100.0 | 99.6 | 99.5 | 99.6 | 98.3 | 100.0 | 104.3 | 131.7 | 117.9 | 74.9 | 85.3 | 107.8 | 669.6 | 387.2 | 0.7 |
| 19:19:15 | 0:04:00 | 23.7 | 23.6 | 30.2 | 25.9 | 57.8 | 99.4 | 99.1 | 99.7 | 99.5 | 99.2 | 99.3 | 98.1 | 101.7 | 107.6 | 131.7 | 117.8 | 74.8 | 87.4 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:21:15 | 0:06:00 | 21.0 | 20.9 | 30.2 | 24.9 | 56.0 | 99.2 | 98.9 | 99.6 | 99.3 | 99.0 | 99.2 | 98.0 | 100.4 | 103.4 | 131.6 | 117.7 | 74.9 | 88.5 | 107.9 | 669.6 | 387.3 | 0.7 |
| 19:23:15 | 0:08:00 | 18.3 | 18.3 | 30.2 | 25.0 | 56.3 | 99.1 | 98.7 | 99.4 | 99.2 | 98.9 | 99.1 | 97.8 | 99.4 | 100.7 | 131.4 | 117.5 | 74.9 | 89.1 | 107.9 | 669.6 | 387.3 | 0.7 |
| 19:25:16 | 0:10:00 | 15.6 | 15.6 | 30.2 | 24.5 | 55.4 | 99.0 | 98.6 | 99.3 | 99.1 | 98.7 | 98.9 | 97.7 | 101.7 | 108.9 | 131.4 | 117.4 | 74.9 | 89.6 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:27:16 | 0:12:00 | 12.9 | 12.8 | 30.2 | 24.0 | 54.6 | 98.8 | 98.4 | 99.1 | 99.0 | 98.5 | 98.7 | 97.5 | 101.1 | 105.6 | 131.2 | 117.2 | 74.9 | 89.8 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:29:16 | 0:14:01 | 10.3 | 10.2 | 30.2 | 23.6 | 53.8 | 98.7 | 98.3 | 98.9 | 98.8 | 98.4 | 98.7 | 97.4 | 99.9 | 102.0 | 131.2 | 117.1 | 75.0 | 89.9 | 107.9 | 669.6 | 387.3 | 0.7 |
| 19:31:16 | 0:16:01 | 7.6 | 7.5 | 30.2 | 23.1 | 53.1 | 98.5 | 98.0 | 98.8 | 98.7 | 98.1 | 98.5 | 97.2 | 99.4 | 102.0 | 131.0 | 116.9 | 74.9 | 89.9 | 108.0 | 669.6 | 387.3 | 0.7 |
| 19:33:16 | 0:18:01 | 5.0 | 5.0 | 30.2 | 22.2 | 51.3 | 98.3 | 97.8 | 98.6 | 98.5 | 97.9 | 98.3 | 97.0 | 102.0 | 109.2 | 131.0 | 116.7 | 74.9 | 89.7 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:35:16 | 0:20:01 | 3.2 | 3.2 | 30.2 | 22.2 | 51.4 | 98.2 | 97.7 | 98.6 | 98.3 | 97.9 | 98.4 | 96.9 | 100.7 | 104.5 | 130.8 | 116.6 | 75.0 | 89.2 | 108.0 | 669.6 | 387.2 | 0.7 |
| 19:37:16 | 0:22:01 | 2.2 | 2.1 | 30.2 | 21.3 | 49.2 | 98.3 | 97.8 | 98.8 | 98.3 | 97.9 | 98.5 | 96.9 | 99.6 | 101.1 | 130.7 | 116.5 | 75.0 | 88.3 | 107.9 | 669.6 | 387.3 | 0.7 |

POST EVACUATION(2) (Loop:5/7) SUMMARY 03/09/2015 01:37:04



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000089

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:37:44 | 0:11:58 | 2.0 | 2.0 | 30.2 | 21.8 | 50.2 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.7 | 96.9 | 100.8 | 107.1 | 130.7 | 116.4 | 74.9 | 88.0 | 107.9 | 669.6 | 387.3 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.5 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 131.8 MAX GAS TEMP: 075.0
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.6 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.9
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 113.3

AIR BACKFILL(1) (Loop:6/7) 03/09/2015 01:37:04

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:37:44 | 0:00:00 | 2.0 | 2.0 | 30.2 | 21.8 | 50.2 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.7 | 96.9 | 100.8 | 107.1 | 130.7 | 116.4 | 74.9 | 88.0 | 107.9 | 669.6 | 387.3 | 0.7 |
| 19:39:44 | 0:02:00 | 4.8 | 4.8 | 30.2 | 22.7 | 51.1 | 99.1 | 98.8 | 99.7 | 98.9 | 98.8 | 99.3 | 97.4 | 101.2 | 105.8 | 130.6 | 116.3 | 74.9 | 86.9 | 107.9 | 669.6 | 387.3 | 0.7 |
| 19:41:44 | 0:04:00 | 7.5 | 7.5 | 30.2 | 23.6 | 52.3 | 99.7 | 99.5 | 100.3 | 99.3 | 99.6 | 99.9 | 97.9 | 99.5 | 101.0 | 130.5 | 116.1 | 74.9 | 85.7 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:43:44 | 0:06:00 | 10.3 | 10.2 | 30.2 | 24.0 | 52.8 | 100.0 | 99.9 | 100.6 | 99.6 | 100.0 | 100.1 | 98.1 | 102.0 | 109.3 | 130.4 | 116.0 | 74.9 | 84.6 | 107.9 | 669.6 | 387.2 | 0.7 |
| 19:45:44 | 0:08:00 | 13.0 | 12.9 | 30.2 | 24.5 | 53.5 | 100.2 | 100.1 | 100.8 | 99.8 | 100.2 | 100.4 | 98.4 | 100.5 | 103.8 | 130.3 | 115.9 | 75.0 | 83.6 | 107.8 | 669.6 | 387.3 | 0.7 |
| 19:47:44 | 0:10:00 | 15.8 | 15.7 | 30.2 | 24.9 | 54.3 | 100.3 | 100.2 | 100.9 | 99.9 | 100.2 | 100.4 | 98.4 | 99.4 | 102.2 | 130.2 | 115.7 | 74.9 | 82.7 | 107.8 | 669.6 | 387.3 | 0.7 |
| 19:49:44 | 0:12:00 | 18.5 | 18.4 | 30.2 | 25.4 | 55.3 | 100.3 | 100.3 | 100.9 | 99.8 | 100.4 | 100.5 | 98.4 | 101.8 | 107.8 | 130.1 | 115.5 | 74.8 | 82.0 | 107.8 | 669.6 | 387.2 | 0.7 |
| 19:51:44 | 0:14:01 | 21.2 | 21.1 | 30.2 | 25.9 | 56.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.4 | 100.5 | 98.5 | 100.0 | 102.4 | 129.9 | 115.4 | 74.8 | 81.3 | 107.7 | 669.6 | 387.3 | 0.7 |
| 19:53:44 | 0:16:01 | 23.8 | 23.7 | 30.2 | 25.9 | 56.1 | 100.5 | 100.4 | 101.1 | 100.0 | 100.5 | 100.8 | 98.7 | 100.0 | 104.7 | 129.8 | 115.2 | 74.9 | 80.8 | 107.7 | 669.6 | 387.2 | 0.7 |
| 19:55:44 | 0:18:01 | 26.6 | 26.5 | 30.2 | 26.3 | 57.0 | 100.5 | 100.4 | 101.1 | 100.0 | 100.6 | 100.8 | 98.8 | 101.5 | 106.9 | 129.8 | 115.1 | 74.8 | 80.3 | 107.6 | 669.6 | 387.3 | 0.7 |
| 19:57:45 | 0:20:01 | 29.3 | 29.1 | 30.2 | 26.3 | 56.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 99.9 | 102.0 | 129.6 | 115.0 | 74.8 | 79.9 | 107.6 | 669.6 | 387.3 | 0.7 |

AIR BACKFILL(1) (Loop:6/7) SUMMARY 03/09/2015 01:57:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:57:48 | 0:20:04 | 29.3 | 29.2 | 30.2 | 26.3 | 56.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 99.7 | 101.6 | 129.7 | 115.0 | 74.8 | 80.0 | 107.6 | 669.6 | 387.2 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 130.7 MAX GAS TEMP: 075.0
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 129.6 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.5
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 115.0

POST EVACUATION(2) (Loop:6/7) 03/09/2015 01:57:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:57:48 | 0:00:00 | 29.3 | 29.2 | 30.2 | 26.3 | 56.8 | 100.6 | 100.5 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 99.7 | 101.6 | 129.7 | 115.0 | 74.8 | 80.0 | 107.6 | 669.6 | 387.2 | 0.7 |
| 19:59:48 | 0:02:00 | 26.3 | 26.2 | 30.2 | 25.9 | 57.3 | 99.7 | 99.4 | 100.0 | 99.7 | 99.6 | 99.6 | 98.3 | 100.1 | 104.9 | 129.6 | 114.8 | 74.8 | 85.3 | 107.5 | 669.6 | 387.3 | 0.7 |
| 20:01:48 | 0:04:00 | 23.7 | 23.6 | 30.2 | 25.4 | 56.7 | 99.4 | 99.1 | 99.8 | 99.5 | 99.3 | 99.4 | 98.1 | 101.8 | 107.9 | 129.4 | 114.7 | 74.8 | 87.2 | 107.4 | 669.6 | 387.2 | 0.7 |
| 20:03:48 | 0:06:00 | 21.0 | 20.9 | 30.2 | 25.0 | 55.9 | 99.3 | 99.0 | 99.7 | 99.4 | 99.1 | 99.2 | 98.0 | 100.3 | 103.3 | 129.4 | 114.5 | 74.7 | 88.4 | 107.4 | 669.6 | 387.2 | 0.7 |
| 20:05:48 | 0:08:00 | 18.3 | 18.2 | 30.2 | 24.9 | 56.1 | 99.2 | 98.8 | 99.4 | 99.3 | 98.9 | 99.1 | 97.9 | 99.5 | 100.9 | 129.3 | 114.5 | 74.8 | 89.2 | 107.4 | 669.6 | 387.3 | 0.7 |
| 20:07:48 | 0:10:00 | 15.7 | 15.6 | 30.2 | 24.0 | 54.4 | 99.0 | 98.6 | 99.3 | 99.1 | 98.7 | 98.9 | 97.7 | 101.1 | 108.0 | 129.2 | 114.3 | 74.8 | 89.6 | 107.4 | 669.6 | 387.3 | 0.7 |
| 20:09:48 | 0:12:00 | 12.9 | 12.9 | 30.2 | 23.6 | 53.6 | 98.8 | 98.4 | 99.1 | 99.0 | 98.6 | 98.8 | 97.6 | 101.3 | 106.3 | 129.0 | 114.1 | 74.8 | 89.9 | 107.4 | 669.6 | 387.2 | 0.7 |
| 20:11:48 | 0:14:01 | 10.3 | 10.2 | 30.2 | 23.6 | 53.9 | 98.6 | 98.2 | 98.9 | 98.8 | 98.4 | 98.7 | 97.4 | 100.0 | 102.4 | 133.4 | 117.2 | 74.8 | 90.0 | 108.5 | 669.6 | 387.2 | 0.7 |
| 20:13:49 | 0:16:01 | 7.6 | 7.5 | 30.2 | 22.7 | 52.1 | 98.5 | 98.0 | 98.8 | 98.6 | 98.2 | 98.5 | 97.3 | 99.3 | 100.8 | 133.3 | 117.6 | 74.8 | 90.0 | 107.9 | 669.6 | 387.2 | 0.7 |
| 20:15:49 | 0:18:01 | 5.0 | 5.0 | 30.2 | 22.2 | 51.3 | 98.3 | 97.8 | 98.6 | 98.4 | 97.9 | 98.4 | 97.0 | 101.9 | 109.1 | 133.1 | 117.5 | 74.8 | 89.8 | 108.0 | 669.6 | 387.2 | 0.7 |
| 20:17:49 | 0:20:01 | 3.2 | 3.2 | 30.2 | 21.8 | 50.2 | 98.3 | 97.8 | 98.7 | 98.4 | 97.9 | 98.4 | 97.0 | 100.8 | 104.7 | 133.1 | 117.4 | 74.8 | 89.3 | 108.0 | 669.6 | 387.2 | 0.7 |
| 20:19:49 | 0:22:01 | 2.2 | 2.1 | 30.2 | 21.3 | 49.1 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.5 | 96.9 | 99.5 | 101.1 | 133.0 | 117.2 | 74.9 | 88.4 | 108.0 | 669.6 | 387.2 | 0.7 |

POST EVACUATION(2) (Loop:6/7) SUMMARY 03/09/2015 02:19:38

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000090

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:20:17 | 0:22:29 | 2.0 | 2.0 | 30.2 | 21.3 | 49.1 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.7 | 96.9 | 101.2 | 108.1 | 132.9 | 117.2 | 74.9 | 88.1 | 108.0 | 669.6 | 387.2 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.5 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 133.6 MAX GAS TEMP: 074.9
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 128.9 MIN GAS TEMP: 074.7
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:7/7) 03/09/2015 02:19:38

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:20:17 | 0:00:00 | 2.0 | 2.0 | 30.2 | 21.3 | 49.1 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.7 | 96.9 | 101.2 | 108.1 | 132.9 | 117.2 | 74.9 | 88.1 | 108.0 | 669.6 | 387.2 | 0.7 |
| 20:22:17 | 0:02:00 | 4.8 | 4.8 | 30.2 | 22.2 | 50.1 | 99.1 | 98.7 | 99.7 | 98.9 | 98.8 | 99.4 | 97.4 | 100.9 | 105.2 | 132.8 | 117.0 | 74.8 | 87.1 | 108.1 | 669.6 | 387.2 | 0.7 |
| 20:24:17 | 0:04:00 | 7.5 | 7.4 | 30.2 | 23.1 | 51.3 | 99.7 | 99.5 | 100.3 | 99.4 | 99.6 | 99.9 | 97.9 | 99.5 | 101.0 | 132.8 | 116.8 | 74.9 | 85.9 | 108.1 | 669.6 | 387.3 | 0.7 |
| 20:26:17 | 0:06:00 | 10.2 | 10.1 | 30.2 | 23.6 | 51.8 | 100.0 | 99.9 | 100.6 | 99.6 | 100.0 | 100.2 | 98.1 | 101.5 | 108.7 | 132.6 | 116.7 | 74.9 | 84.8 | 108.1 | 669.6 | 387.2 | 0.7 |
| 20:28:17 | 0:08:00 | 12.9 | 12.8 | 30.1 | 24.0 | 52.5 | 100.2 | 100.2 | 100.8 | 99.7 | 100.2 | 100.3 | 98.3 | 101.0 | 105.3 | 132.5 | 116.5 | 74.9 | 83.8 | 108.0 | 669.6 | 387.3 | 0.7 |
| 20:30:17 | 0:10:00 | 15.7 | 15.6 | 30.1 | 24.5 | 53.5 | 100.2 | 100.2 | 100.8 | 99.8 | 100.3 | 100.4 | 98.3 | 99.5 | 100.9 | 132.4 | 116.4 | 74.9 | 83.0 | 108.0 | 669.6 | 387.3 | 0.7 |
| 20:32:17 | 0:12:00 | 18.4 | 18.3 | 30.1 | 25.0 | 54.4 | 100.3 | 100.3 | 100.9 | 99.8 | 100.4 | 100.5 | 98.5 | 101.7 | 109.2 | 132.4 | 116.2 | 75.0 | 82.3 | 108.0 | 669.6 | 387.3 | 0.7 |
| 20:34:17 | 0:14:01 | 21.2 | 21.1 | 30.2 | 25.0 | 54.3 | 100.4 | 100.4 | 101.0 | 99.8 | 100.5 | 100.6 | 98.5 | 100.7 | 104.5 | 132.1 | 116.1 | 75.0 | 81.7 | 108.0 | 669.6 | 387.3 | 0.7 |
| 20:36:17 | 0:16:01 | 23.8 | 23.7 | 30.1 | 25.4 | 55.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.6 | 98.6 | 99.4 | 100.6 | 132.1 | 115.9 | 75.0 | 81.1 | 107.9 | 669.6 | 387.2 | 0.8 |
| 20:38:17 | 0:18:01 | 26.7 | 26.6 | 30.1 | 25.9 | 56.0 | 100.5 | 100.5 | 101.1 | 100.0 | 100.6 | 100.8 | 98.7 | 102.0 | 109.1 | 132.1 | 115.8 | 75.0 | 80.7 | 107.9 | 669.6 | 387.3 | 0.7 |

AIR BACKFILL(1) (Loop:7/7) SUMMARY 03/09/2015 02:39:37

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:40:16 | 0:19:59 | 29.3 | 29.2 | 30.1 | 25.9 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 100.7 | 104.3 | 131.8 | 115.7 | 75.0 | 80.3 | 107.8 | 669.6 | 387.2 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 132.9 MAX GAS TEMP: 075.0
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 131.8 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.2
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 115.6

POST EVACUATION(2) (Loop:7/7) 03/09/2015 02:39:37

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:40:16 | 0:00:00 | 29.3 | 29.2 | 30.1 | 25.9 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 100.7 | 104.3 | 131.8 | 115.7 | 75.0 | 80.3 | 107.8 | 669.6 | 387.2 | 0.7 |
| 20:42:16 | 0:02:00 | 26.3 | 26.2 | 30.1 | 25.4 | 56.3 | 99.7 | 99.4 | 100.1 | 99.7 | 99.6 | 99.7 | 98.3 | 99.5 | 101.0 | 131.7 | 115.5 | 75.0 | 85.4 | 107.8 | 669.6 | 387.3 | 0.8 |
| 20:44:16 | 0:04:00 | 23.6 | 23.6 | 30.1 | 24.9 | 55.7 | 99.4 | 99.1 | 99.8 | 99.5 | 99.3 | 99.4 | 98.2 | 100.3 | 105.5 | 131.6 | 115.4 | 75.0 | 87.4 | 107.8 | 669.6 | 387.2 | 0.7 |
| 20:46:16 | 0:06:00 | 21.0 | 20.9 | 30.1 | 24.5 | 54.9 | 99.3 | 99.0 | 99.6 | 99.4 | 99.1 | 99.2 | 98.0 | 101.6 | 107.3 | 131.5 | 115.2 | 74.9 | 88.5 | 107.7 | 669.6 | [illegible] | 0.7 |
| 20:48:16 | 0:08:00 | 18.3 | 18.2 | 30.1 | 24.0 | 54.1 | 99.2 | 98.8 | 99.4 | 99.3 | 99.0 | 99.2 | 97.9 | 100.3 | 103.2 | 131.6 | 115.1 | 75.0 | 89.2 | 107.7 | 669.6 | 387.3 | 0.7 |
| 20:50:16 | 0:10:00 | 15.6 | 15.5 | 30.1 | 23.6 | 53.4 | 99.0 | 98.6 | 99.3 | 99.1 | 98.7 | 98.9 | 97.7 | 99.4 | 100.4 | 131.3 | 114.9 | 74.9 | 89.5 | 107.6 | 669.6 | 387.2 | 0.7 |
| 20:52:16 | 0:12:00 | 12.9 | 12.9 | 30.1 | 23.6 | 53.5 | 98.9 | 98.5 | 99.1 | 99.0 | 98.6 | 98.8 | 97.6 | 101.7 | 108.9 | 131.2 | 114.8 | 74.9 | 89.8 | 107.6 | 669.6 | 387.2 | 0.7 |
| 20:54:16 | 0:14:01 | 10.2 | 10.2 | 30.1 | 23.1 | 52.7 | 98.7 | 98.3 | 99.1 | 98.9 | 98.4 | 98.7 | 97.4 | 101.3 | 106.1 | 131.2 | 114.7 | 74.9 | 89.8 | 107.6 | 669.6 | 387.3 | 0.7 |
| 20:56:16 | 0:16:01 | 7.6 | 7.5 | 30.1 | 22.2 | 51.0 | 98.5 | 98.0 | 98.8 | 98.6 | 98.2 | 98.7 | 97.3 | 99.9 | 102.2 | 131.1 | 114.5 | 74.9 | 89.8 | 107.6 | 669.6 | 387.3 | 0.7 |
| 20:58:16 | 0:18:01 | 5.0 | 5.0 | 30.1 | 21.8 | 50.2 | 98.3 | 97.8 | 98.7 | 98.5 | 98.0 | 98.5 | 97.1 | 99.4 | 101.8 | 131.0 | 114.4 | 74.9 | 89.6 | 107.6 | 669.6 | 387.3 | 0.7 |
| 21:00:17 | 0:20:01 | 3.2 | 3.2 | 30.1 | 21.3 | 49.3 | 98.2 | 97.7 | 98.6 | 98.4 | 97.9 | 98.5 | 97.0 | 101.9 | 108.9 | 130.9 | 114.2 | 74.8 | 89.0 | 107.5 | 669.6 | 387.2 | 0.7 |
| 21:02:17 | 0:22:01 | 2.2 | 2.1 | 30.1 | 20.9 | 48.0 | 98.4 | 97.8 | 98.9 | 98.4 | 97.9 | 98.7 | 97.0 | 100.5 | 103.8 | 130.8 | 114.1 | 74.8 | 88.1 | 107.4 | 669.6 | 387.3 | 0.7 |

POST EVACUATION(2) (Loop:7/7) SUMMARY 03/09/2015 03:02:03

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:02:42 | 0:22:26 | 2.0 | 2.0 | 30.1 | 21.3 | 49.1 | 98.4 | 97.8 | 98.9 | 98.4 | 97.9 | 98.7 | 97.0 | 99.4 | 100.9 | 130.7 | 114.1 | 74.8 | 87.8 | 107.[illegible] | 669.6 | 387.3 | 0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 131.9 MAX GAS TEMP: 075.0



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000091

CYCLE NO: 0000000110

STERILIZER NUMBER: 0001033692

END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.7 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.7
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 114.1

AIR BACKFILL(2) 03/09/2015 03:02:03

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:02:42 | 0:00:00 | 2.0 | 2.0 | 30.1 | 21.3 | 49.1 | 98.4 | 97.8 | 98.9 | 98.4 | 97.9 | 98.7 | 97.0 | 99.4 | 100.9 | 130.7 | 114.1 | 74.8 | 87.8 | 107.4 | 669.6 | 387.3 | 0.7 |
| 21:03:42 | 0:01:00 | 3.3 | 3.3 | 30.1 | 22.2 | 50.7 | 98.7 | 98.3 | 99.3 | 98.6 | 98.4 | 99.0 | 97.2 | 100.7 | 104.3 | 130.6 | 114.0 | 74.8 | 87.3 | 107.4 | 669.6 | 387.2 | 0.7 |
| 21:04:42 | 0:02:00 | 4.7 | 4.7 | 30.1 | 22.2 | 50.0 | 99.1 | 98.8 | 99.8 | 98.9 | 98.8 | 99.4 | 97.4 | 101.9 | 109.1 | 130.6 | 113.9 | 74.8 | 86.7 | 107.4 | 669.6 | 387.3 | 0.7 |
| 21:05:42 | 0:03:00 | 6.3 | 6.2 | 30.1 | 22.2 | 49.6 | 99.5 | 99.2 | 100.1 | 99.2 | 99.4 | 99.7 | 97.8 | 99.3 | 101.5 | 130.6 | 113.9 | 74.8 | 86.1 | 107.4 | 669.6 | 387.3 | 0.7 |
| 21:06:42 | 0:04:00 | 7.5 | 7.4 | 30.1 | 22.7 | 50.2 | 99.8 | 99.6 | 100.3 | 99.4 | 99.6 | 99.9 | 97.9 | 100.2 | 103.3 | 130.6 | 113.8 | 74.8 | 85.5 | 107.4 | 669.6 | 387.3 | 0.7 |
| 21:07:43 | 0:05:00 | 8.9 | 8.8 | 30.1 | 23.1 | 51.0 | 99.9 | 99.8 | 100.5 | 99.5 | 99.9 | 100.1 | 98.1 | 101.9 | 108.4 | 130.5 | 113.7 | 74.8 | 84.9 | 107.3 | 669.6 | 387.3 | 0.7 |
| 21:08:43 | 0:06:00 | 10.2 | 10.2 | 30.1 | 23.1 | 50.7 | 100.1 | 100.0 | 100.7 | 99.7 | 100.1 | 100.2 | 98.3 | 99.4 | 102.7 | 130.4 | 113.6 | 74.8 | 84.4 | 107.3 | 669.6 | 387.3 | 0.7 |
| 21:09:43 | 0:07:01 | 11.6 | 11.5 | 30.1 | 23.6 | 51.5 | 100.2 | 100.1 | 100.8 | 99.8 | 100.2 | 100.3 | 98.4 | 100.1 | 102.7 | 130.4 | 113.6 | 74.8 | 83.8 | 107.3 | 669.6 | 387.3 | 0.7 |
| 21:10:43 | 0:08:01 | 12.9 | 12.9 | 30.1 | 23.6 | 51.5 | 100.2 | 100.2 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 101.7 | 107.8 | 130.3 | 113.5 | 74.8 | 83.4 | 107.2 | 669.6 | 387.3 | 0.8 |
| 21:11:43 | 0:09:01 | 14.4 | 14.3 | 30.1 | 23.6 | 51.4 | 100.3 | 100.3 | 100.9 | 99.9 | 100.3 | 100.4 | 98.6 | 100.0 | 104.7 | 130.2 | 113.5 | 74.8 | 82.9 | 107.2 | 669.6 | 387.2 | 0.7 |
| 21:12:43 | 0:10:01 | 15.6 | 15.6 | 30.1 | 23.6 | 51.3 | 100.4 | 100.3 | 100.9 | 100.0 | 100.4 | 100.5 | 98.7 | 99.9 | 101.8 | 130.3 | 113.4 | 74.8 | 82.5 | 107.2 | 669.6 | 387.2 | 0.7 |
| 21:13:43 | 0:11:01 | 17.1 | 17.0 | 30.1 | 24.0 | 52.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.5 | 98.7 | 101.3 | 106.4 | 130.1 | 113.3 | 74.7 | 82.1 | 107.1 | 669.6 | 387.3 | 0.7 |
| 21:14:43 | 0:12:01 | 18.4 | 18.3 | 30.1 | 24.0 | 52.1 | 100.5 | 100.4 | 101.0 | 100.1 | 100.5 | 100.5 | 98.7 | 101.1 | 108.0 | 130.2 | 113.3 | 74.7 | 81.8 | 107.1 | 669.6 | 387.3 | 0.7 |
| 21:15:43 | 0:13:01 | 19.8 | 19.7 | 30.1 | 24.5 | 53.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.6 | 98.8 | 99.6 | 101.1 | 130.1 | 113.2 | 74.7 | 81.4 | 107.1 | 669.6 | 387.3 | 0.7 |
| 21:16:43 | 0:14:01 | 21.1 | 21.0 | 30.1 | 24.5 | 53.1 | 100.5 | 100.4 | 101.1 | 100.1 | 100.5 | 100.6 | 98.8 | 100.9 | 105.2 | 129.9 | 113.1 | 74.7 | 81.1 | 107.0 | 669.6 | 387.2 | 0.7 |
| 21:17:44 | 0:15:01 | 22.4 | 22.3 | 30.1 | 25.0 | 53.9 | 100.6 | 100.5 | 101.2 | 100.2 | 100.5 | 100.6 | 98.8 | 101.6 | 108.9 | 129.9 | 113.1 | 74.7 | 80.8 | 107.0 | 669.6 | 387.3 | 0.7 |
| 21:18:44 | 0:16:01 | 23.9 | 23.8 | 30.1 | 24.9 | 53.9 | 100.6 | 100.5 | 101.2 | 100.2 | 100.6 | 100.8 | 98.8 | 99.4 | 100.8 | 129.9 | 113.0 | 74.6 | 80.6 | 107.0 | 669.6 | 387.2 | 0.7 |
| 21:19:44 | 0:17:02 | 25.3 | 25.2 | 30.1 | 24.9 | 53.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.9 | 100.8 | 104.7 | 129.9 | 112.9 | 74.6 | 80.4 | 107.0 | 669.6 | 387.3 | 1.2 |
| 21:20:44 | 0:18:02 | 26.6 | 26.5 | 30.1 | 25.0 | 53.8 | 100.7 | 100.6 | 101.2 | 100.3 | 100.7 | 100.8 | 98.9 | 101.7 | 109.2 | 129.7 | 112.8 | 74.6 | 80.1 | 106.9 | 669.6 | 387.3 | 0.7 |
| 21:21:44 | 0:19:02 | 27.9 | 27.8 | 30.1 | 25.0 | 53.8 | 100.7 | 100.6 | 101.2 | 100.3 | 100.7 | 100.8 | 99.0 | 99.5 | 100.9 | 129.7 | 112.8 | 74.7 | 79.9 | 106.9 | 669.6 | 387.2 | 0.8 |

AIR BACKFILL(2) SUMMARY 03/09/2015 03:22:03

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:22:43 | 0:20:00 | 29.3 | 29.2 | 30.1 | 25.0 | 53.8 | 100.7 | 100.6 | 101.2 | 100.3 | 100.7 | 100.8 | 99.0 | 100.9 | 105.0 | 129.7 | 112.7 | 74.6 | 79.7 | 106.9 | 669.6 | 387.2 | 0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 130.8 MAX GAS TEMP: 074.9
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.0 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 129.7 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.1
EO USED PHASE: 000.0 EO USED CYCLE:021.4 MIN VAP TEMP: 112.7

END OF CYCLE 03/09/2015 03:22:03

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:22:43 | 0:00:00 | 29.3 | 29.2 | 30.1 | 25.0 | 53.8 | 100.7 | 100.6 | 101.2 | 100.3 | 100.7 | 100.8 | 99.0 | 100.9 | 105.0 | 129.7 | 112.7 | 74.6 | 79.7 | 106.9 | 669.6 | 387.[illegible] | 0.8 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000092

# Aeration Validation

## Set "B"

## Sterilization Cycle# ZB500130

# Final Report

COVIDIEN

| Cycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| ZB500130 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/9/2015 | 4:15 | 3/9/2015 | 16:40 |

**Test Description:** North Haven (CT) Parametric Rel Combo Cycle- 6 pallet

| | Specification | Result | Units |
|---|---|---|---|
| - | | | |
| - | | | |
| Chamber | | B | |
| - | | | |
| LOADING | | | |
| load time | 0.05-1.00 | 0.19 | hrs.min |
| - | | | |
| CONDITIONING | | | |
| vacuum #1 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #1 elapsed time | 15-60 | 23 | minutes |
| nitrogen inject | 11.5-12.5 | 12.1 | inHgA |
| nitrogen inject elapsed time | 5-30 | 10 | minutes |
| vacuum #2 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #2 elapsed time | 5-30 | 9 | minutes |
| time to conditioning | 30-180 | 79 | minutes |
| chamber temperature-min | 80-110 | 96.6 | °F |
| chamber temperature-max | 80-110 | 98.8 | °F |
| chamber moisture-min | 10.0-39.7 | 25.1 | mg/L |
| chamber moisture-max | 10.0-39.7 | 25.6 | mg/L |
| conditioning dwell time | 90-180 | 100 | minutes |
| - | | | |
| CHARGE | | | |
| initial vacuum | 1.5-2.5 | 2.1 | inHgA |
| nitrogen dilution pressure | 4.5-5.5 | 4.7 | inHgA |
| EtO inject pressure | 13.3-14.3 | 14.3 | inHgA |
| EtO inject elapsed time | 5-60 | 26 | minutes |
| EtO gas weight used | 17-29 | 23 | lbs |
| nitrogen blanket pressure | 25.5-27.0 | 26.4 | inHgA |
| nitrogen inject elapsed time | 5-60 | 33 | minutes |
| - | | | |
| EXPOSURE | | | |
| chamber pressure-min | 25.5-27.0 | 26.0 | inHgA |
| chamber pressure-max | 25.5-27.0 | 26.5 | inHgA |
| chamber temperature-min | 88-110 | 98.1 | °F |
| chamber temperature-max | 88-110 | 99.1 | °F |
| time in specification | 10.30-11.00 | 11:00 | hrs.min |
| total exposure time | 10.30-11.00 | 11:00 | hrs.min |
| gas concentration-min | 300-525 | 476.2 | mg/L |
| gas concentration-max | 300-525 | 509.4 | mg/L |
| - | | | |
| EXHAUST | | | |
| vacuum #1 | 4.5-5.5 | 5.1 | inHgA |
| vacuum #1 elapsed time | 15-90 | 33 | minutes |
| - | | | |
| NITROGEN WASH | | | |
| nitrogen inject pressure | 28.0-29.0 | 28.7 | inHgA |
| nitrogen inject elapsed time | 15-45 | 18 | minutes |
| vacuum #1 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #1 elapsed time | 15-45 | 23 | minutes |
| - | | | |
| AIR WASHES | | | |
| dry air inject #1 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #1 time | 15-45 | 20 | minutes |
| vacuum #1 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #1 elapsed time | 15-45 | 22 | minutes |
| dry air inject #2 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #2 time | 15-45 | 20 | minutes |
| vacuum #2 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #2 elapsed time | 15-45 | 22 | minutes |

## Final Report

| Cycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| .B500130 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/9/2015 | 4:15 | 3/9/2015 | 16:40 |

| | | | |
|---|---|---|---|
| dry air inject #3 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #3 time | 15-45 | 20 | minutes |
| vacuum #3 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #3 elapsed time | 15-45 | 22 | minutes |
| dry air inject #4 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #4 time | 15-45 | 20 | minutes |
| vacuum #4 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #4 elapsed time | 15-45 | 22 | minutes |
| dry air inject #5 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #5 time | 15-45 | 20 | minutes |
| vacuum #5 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #5 elapsed time | 15-45 | 22 | minutes |
| dry air inject #6 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #6 time | 15-45 | 20 | minutes |
| vacuum #6 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #6 elapsed time | 15-45 | 22 | minutes |
| dry air inject #7 pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject #7 time | 15-45 | 20 | minutes |
| vacuum #7 | 1.5-2.5 | 2.1 | inHgA |
| vacuum #7 elapsed time | 15-45 | 22 | minutes |
| - | | | |
| FINAL AIR BREAK | | | |
| dry air inject pressure | 28.0-30.0 | 29.5 | inHgA |
| dry air inject time | 15-45 | 19 | minutes |
| - | | | |
| PRIMARY AERATION | | | |
| elapsed time | 12.00-48.00 | 12:05 | hrs.min |
| room temperature-min | 95-115 | 105 | °F |
| room temperature-max | 95-115 | 108 | °F |
| circulator running | Yes | Yes | |
| - | | | |
| CHAMBER CYCLE SPEC. | | | |
| circulator running | Yes | Yes | |
| max chamber temperature | 0-110 | 101.3 | °F |

**Results Entered By:** Robert Blake- 3/31/2015 16:15

**Approved By:** Nicole Prego- 4/1/2015 15:40

**Confirmed By:** Nicole Prego - 4/1/2015 15:40

**Data Entry Notes**

Validation Cycle: STE14-028 & STE14-029.
System timestamps from ETC cycle do not reflect daylight savings time adjustment.
4/1/2015 8:20:02 AM
thcg\robert.blakeAeration Sample Set B: 1X & Set B: 1 of 3X.
4/1/2015 9:08:53 AM
thcg\robert.blake
4/1/2015 9:09:00 AM
thcg\robert.blake

COVIDIEN

COPY

NORTH HAVEN PLANT
STERILIZATION RUN RECORD

| CYCLE #: | ELIGIBILITY TIME: N/A | DATE: N/A |
|---|---|---|
| 2B500130 | CYCLE LOAD TIME: 06:40 | DATE: 3/8/15 |

(CIRCLE ONE) 311

MECHANICAL (110) TROCAR (210) COMBO (310) CUSTOM KIT (410) CYCLE NUMBER TYPE VERIFIED BY: RJ

STARTING PCR TEMP: N/A STARTING PCR TIME: N/A START PCR DATE: N/A

PCR MIN RH: N/A PCR MIN TEMP: N/A

PCR MAX RH: N/A PCR MAX TEMP: N/A

PALLET PRODUCT LOTS VERIFIED LOAD BY: [illegible]

| ITEM | SHOP ORDER | SHIPMENT / LOT | QUANTITY | CASES / BINS | MATERIAL |
|---|---|---|---|---|---|
| | | 501350 | 4 | | |
| STE14-0 | 28-029 | | | | |
| (SETB: | 1x) | | | | |
| (SETB: | 1 of 3x) | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

RJ

CYCLE START TIME: 06:59 CYCLE START DATE: 3/8/15 ETC RUN #: 116

CYCLE END TIME: ~~03:15~~ RJ 04:15 CYCLE END DATE: 3/9/15 PRIMARY START TIME: ~~03:35~~ RJ 04:35

PRIMARY END TIME: ~~04:40~~ 16:40 PRIMARY END DATE: 03-09-15 MIN TEMP: 105 MAX TEMP: 108

SECONDARY END TIME: N/A SECONDARY END DATE: N/A MIN TEMP: N/A MAX TEMP: N/A

REMARKS:

Technician Review: [illegible] Management Review: [illegible]

COVIDIEN 60 MIDDLETOWN AVE NORTH HAVEN, CT 06473 203-492-5000 [T] 203-492-6398 [F]

```
*****************************************************
*                                                   *
*        COVIDIEN                                   *
*                                                   *
*****************************************************
```

CHAMBER 103369-3

DATE: 03/08/2015
TIME: 5:59:00 AM

CYCLE_NUMBER: 311  Last Modification Date/Time: 3/5/2015 9:38:00 AM
CYCLE COUNTER NUMBER: 00000116

LOAD NUMBER 1: ZB500130
LOAD NUMBER 2: 5013504
LOAD NUMBER 3: STE14-028-029
LOAD NUMBER 4: (SETB:1X)
LOAD NUMBER 5: (SETB:1OF3x)
LOAD NUMBER 6:

OPERATOR ID NUMBER: 00005017

| | |
|---|---|
| CYCLE TYPE | : EtO |
| Test Vacuum | : Yes |
| Nitrogen Blanket | : Yes |
| Gas Makeup | : N2 |
| Aeration | : No |

| | |
|---|---|
| TEMPERATURE UNIT | : °F |
| PRESURE UNIT | : ''HgA |
| WEIGHT UNIT | : Lbs. |

PHASE 01 STANDBY

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Jacket Start Differential | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 10.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Pounds of EtO To Start | : 50.0 Lbs. |
| Abort Temperature | : 140.0 °F |
| Abort Pressure | : 36.0 ''HgA |
| Diff Temp | : 3.0 °F |
| Steam Valve Duty Cycle | : 2.0 % |
| Internal Recirculation | : YES |
| Door Crack Time | : 00:05:00 |

PHASE 02 INITIAL EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 18.0 °F |
| Vaporizer High Temperature Warning | : 9.0 °F |
| Vaporizer Low Temperature Alarm | : 18.0 °F |
| Vaporizer Low Temperature Warning | : 9.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.[illegible] ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:00:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000097

PHASE 03 STABILIZATION

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 00:01:00 |
| Print Interval | : 00:01:00 |

PHASE 05 INITIAL N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 12.0 ''HgA |
| Injection Pressure Increment Per Minute | : 1.0 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:30:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 11.5 ''HgA |
| Final Pressure Maximum Level | : 12.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 04 LEAK CHECK

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Vacuum Leak Level Alarm | : 0.5 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 00:05:00 |
| Print Interval | : 00:01:00 |

PHASE 06 INITIAL EVACUATION(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000098

PHASE 07 HUMIDIFICATION(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.2 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| End Humidity Low Limit | : 22.7 mg/l |
| End Humidity High Limit | : 66.6 mg/l |
| Cycle Time to Event Minimum | : 01:00:00 |
| Cycle Time to Event Maximum | : 01:30:00 |

PHASE 09 INITIAL EVACUATION(3) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:15:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Maximum | : 00:30:00 |

PHASE 08 HUMIDIFICATION DWELL(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.1 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 01:40:00 |
| Print Interval | : 00:01:00 |
| Humidity Low Limit | : 22.7 mg/l |
| Humidity High Limit | : 66.6 mg/l |
| Low Temperature Minimum | : 107.0 °F |
| High Temperature Maximum | : 131.0 °F |
| Phase Time Minimum | : 00:08:00 |
| Phase Time Maximum | : 00:15:00 |

PHASE 10 INITIAL N2 WASH(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 4.6 ''HgA |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:15:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:00:01 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000099

| | |
|---|---|
| Phase Time Minimum | : 00:00:01 |
| Phase Time Maximum | : 00:15:00 |

PHASE 11 STERILANT INJECTION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Pressure | : 14.2 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 13.3 ''HgA |
| Final Pressure Maximum Level | : 14.3 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |
| Gas Used Minimum Weight | : 15.0 Lbs. |
| Gas Used Maximum Weight | : 40.0 Lbs. |

PHASE 13 EXPOSURE(1)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

| | |
|---|---|
| Phase Time Maximum | : 00:15:00 |

PHASE 12 N2 BLANKET(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Nitrogen Blanket Pressure | : 26.3 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 25.5 ''HgA |
| Final Pressure Maximum Level | : 27.0 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 14 EXPOSURE(2)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000100

| | |
|---|---|
| Internal Recirculation | : YES |
| Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 650.0 mg/l |
| Phase Time Minimum | : 01:00:00 |
| Phase Time Maximum | : 01:15:00 |
| Time In Specification Minimum | : 01:00:00 |
| Time In Specification Maximum | : 01:15:00 |

PHASE 15 STERILANT REMOVAL Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Removal Vacuum Level | : 5.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 0.8 ''HgA |
| Evacuation Fast Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Rate Stop Level | : 7.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:30:00 |

PHASE 17 POST EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 10:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 525.0 mg/l |
| Phase Time Minimum | : 09:30:00 |
| Phase Time Maximum | : 10:00:00 |
| Time In Specification Minimum | : 09:30:00 |
| Time In Specification Maximum | : 10:00:00 |

PHASE 16 POST N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post N2 Wash Level | : 28.5 ''HgA |
| Injection Pressure Increment Per Minute | : 1.4 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.0 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 18 AIR BACKFILL(1) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000101

| | |
|---|---|
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 19 POST EVACUATION(2) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:02:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 21 END OF CYCLE

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Internal Recirculation | : YES |

| | |
|---|---|
| Print Interval | : 00:02:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 20 AIR BACKFILL(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000102

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

**********

INITIAL EVACUATION(1) 03/08/2015 05:59:00

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:00:00 | 0:00:00 | 30.4 | 30.5 | 30.1 | 12.4 | 32.0 | 94.4 | 96.1 | 94.0 | 92.9 | 96.2 | 94.1 | 93.3 | 102.7 | 107.5 | 133.1 | 112.5 | 75.4 | 73.7 | 100.6 | 674.0 | 474.4 | -0.8 |
| 0:01:00 | 0:01:00 | 28.7 | 28.8 | 30.1 | 12.0 | 30.9 | 94.3 | 96.1 | 93.7 | 93.1 | 96.1 | 93.7 | 93.6 | 103.9 | 109.5 | 133.1 | 117.2 | 75.4 | 78.9 | 100.9 | 674.0 | 474.4 | -0.8 |
| 0:02:00 | 0:02:00 | 27.4 | 27.5 | 30.1 | 12.0 | 30.9 | 94.4 | 96.1 | 93.7 | 93.2 | 96.1 | 93.7 | 93.7 | 104.1 | 110.3 | 133.0 | 117.2 | 75.4 | 81.1 | 100.9 | 674.0 | 474.4 | -0.8 |
| 0:03:00 | 0:03:00 | 26.0 | 26.2 | 30.1 | 11.5 | 29.6 | 94.5 | 96.2 | 93.8 | 93.3 | 96.2 | 93.8 | 93.8 | 104.5 | 111.6 | 132.7 | 117.2 | 75.5 | 82.7 | 100.9 | 674.0 | 474.4 | -0.8 |
| 0:04:00 | 0:04:00 | 24.7 | 24.9 | 30.1 | 10.6 | 27.3 | 94.4 | 96.1 | 93.7 | 93.3 | 96.2 | 93.8 | 93.8 | 104.6 | 111.7 | 132.7 | 117.2 | 75.4 | 83.7 | 100.9 | 674.0 | 474.4 | -0.8 |
| 0:05:01 | 0:05:01 | 23.4 | 23.6 | 30.1 | 10.6 | 27.2 | 94.6 | 96.3 | 93.9 | 93.4 | 96.3 | 93.8 | 93.8 | 104.5 | 111.4 | 132.5 | 117.2 | 75.4 | 84.3 | 100.9 | 674.0 | 474.4 | -0.8 |
| 0:06:01 | 0:06:01 | 22.1 | 22.2 | 30.1 | 10.1 | 26.0 | 94.6 | 96.4 | 93.9 | 93.5 | 96.4 | 93.9 | 94.0 | 104.6 | 111.9 | 132.5 | 117.0 | 75.5 | 84.8 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:07:01 | 0:07:01 | 20.7 | 20.9 | 30.1 | 9.7 | 24.8 | 94.6 | 96.4 | 93.9 | 93.5 | 96.4 | 94.1 | 94.0 | 104.6 | 111.6 | 132.6 | 116.9 | 75.3 | 85.2 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:08:01 | 0:08:01 | 19.4 | 19.5 | 30.1 | 9.7 | 24.7 | 94.7 | 96.5 | 94.0 | 93.6 | 96.5 | 93.9 | 94.0 | 104.3 | 110.7 | 132.4 | 116.8 | 75.3 | 85.5 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:09:01 | 0:09:01 | 18.0 | 18.1 | 30.1 | 8.8 | 22.4 | 94.7 | 96.5 | 94.0 | 93.6 | 96.5 | 94.1 | 94.1 | 104.3 | 110.6 | 132.3 | 116.8 | 75.4 | 85.8 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:10:01 | 0:10:01 | 16.7 | 16.8 | 30.1 | 8.8 | 22.4 | 94.9 | 96.7 | 94.1 | 93.7 | 96.6 | 94.1 | 94.1 | 104.3 | 110.6 | 132.3 | 116.8 | 75.4 | 86.0 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:11:01 | 0:11:01 | 15.3 | 15.5 | 30.1 | 8.3 | 21.2 | 94.9 | 96.7 | 94.2 | 93.8 | 96.8 | 94.1 | 94.3 | 104.2 | 110.0 | 132.2 | 116.7 | 75.4 | 86.2 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:12:01 | 0:12:01 | 14.0 | 14.1 | 30.1 | 7.4 | 18.8 | 95.0 | 96.8 | 94.2 | 93.9 | 96.8 | 94.1 | 94.3 | 104.2 | 109.7 | 132.1 | 116.7 | 75.3 | 86.3 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:13:01 | 0:13:01 | 12.6 | 12.7 | 30.1 | 7.0 | 17.6 | 95.1 | 97.0 | 94.3 | 93.9 | 96.9 | 94.2 | 94.3 | 104.1 | 108.9 | 131.9 | 116.5 | 75.3 | 86.5 | 101.1 | 674.0 | 474.4 | -0.7 |
| 0:14:02 | 0:14:02 | 11.3 | 11.4 | 30.1 | 6.5 | 16.4 | 95.1 | 97.0 | 94.3 | 93.9 | 97.0 | 94.2 | 94.3 | 104.3 | 108.3 | 131.9 | 116.4 | 75.3 | 86.6 | 101.0 | 674.0 | 474.4 | -0.8 |
| 0:15:02 | 0:15:02 | 9.9 | 10.0 | 30.1 | 5.6 | 14.2 | 95.1 | 97.1 | 94.3 | 93.9 | 97.0 | 94.2 | 94.3 | 104.3 | 108.7 | 131.9 | 116.4 | 75.3 | 86.7 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:16:02 | 0:16:02 | 8.6 | 8.7 | 30.1 | 5.6 | 14.1 | 95.2 | 97.2 | 94.4 | 94.0 | 97.2 | 94.3 | 94.4 | 104.5 | 108.8 | 131.9 | 116.3 | 75.3 | 86.8 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:17:02 | 0:17:02 | 7.3 | 7.3 | 30.1 | 5.2 | 13.0 | 95.3 | 97.4 | 94.4 | 94.0 | 97.3 | 94.3 | 94.4 | 104.6 | 109.2 | 131.9 | 116.2 | 75.3 | 86.9 | 101.1 | 674.0 | 474.3 | -0.8 |
| 0:18:02 | 0:18:02 | 5.9 | 6.0 | 30.1 | 4.3 | 10.7 | 95.3 | 97.4 | 94.4 | 93.9 | 97.3 | 94.3 | 94.3 | 104.8 | 109.6 | 131.7 | 116.1 | 75.2 | 86.8 | 101.0 | 674.0 | 474.3 | -0.8 |
| 0:19:02 | 0:19:02 | 4.7 | 4.8 | 30.1 | 3.8 | 9.5 | 95.3 | 97.5 | 94.4 | 93.9 | 97.5 | 94.3 | 94.2 | 105.2 | 110.4 | 131.8 | 116.1 | 75.3 | 86.8 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:20:02 | 0:20:02 | 3.7 | 3.8 | 30.1 | 3.3 | 8.4 | 95.4 | 97.7 | 94.6 | 93.9 | 97.7 | 94.4 | 94.2 | 105.3 | 111.1 | 131.7 | 116.0 | 75.2 | 86.6 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:21:02 | 0:21:02 | 3.0 | 3.1 | 30.1 | 2.9 | 7.2 | 95.6 | 98.0 | 94.8 | 94.0 | 97.9 | 94.6 | 94.3 | 105.7 | 112.3 | 131.5 | 116.0 | 75.2 | 86.3 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:22:02 | 0:22:02 | 2.4 | 2.5 | 30.1 | 2.5 | 6.1 | 95.9 | 98.3 | 95.1 | 94.2 | 98.1 | 94.9 | 94.4 | 106.1 | 113.4 | 131.4 | 115.9 | 75.3 | 85.8 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:23:03 | 0:23:02 | 2.0 | 2.1 | 30.1 | 2.5 | 6.0 | 96.1 | 98.5 | 95.4 | 94.3 | 98.5 | 95.3 | 94.6 | 105.8 | 113.7 | 131.3 | 115.8 | 75.2 | 85.4 | 101.1 | 674.0 | 474.4 | -0.8 |

INITIAL EVACUATION(1) SUMMARY 03/08/2015 06:22:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:09 | 0:23:09 | 2.0 | 2.1 | 30.1 | 2.4 | 6.0 | 96.1 | 98.5 | 95.4 | 94.3 | 98.5 | 95.3 | 94.6 | 106.1 | 113.7 | 131.3 | 115.8 | 75.2 | 85.3 | 101.1 | 674.0 | 474.4 | -0.8 |

START PRESS: 0030.4 MAX PRESS: 0030.4 MAX TEMP: 098.5 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 133.3 MAX GAS TEMP: 075.5
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 093.3 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 131.2 MIN GAS TEMP: 075.1
PRESS CHANGE: 028.4 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.3
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 112.5

STABILIZATION 03/08/2015 06:22:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:09 | 0:00:00 | 2.0 | 2.1 | 30.1 | 2.4 | 6.0 | 96.1 | 98.5 | 95.4 | 94.3 | 98.5 | 95.3 | 94.6 | 106.1 | 113.7 | 131.3 | 115.8 | 75.2 | 85.3 | 101.1 | 674.0 | 474.4 | -0.8 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000103

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:09 | 0:01:00 | 2.0 | 2.1 | 30.1 | 3.3 | 8.1 | 96.5 | 98.9 | 95.9 | 94.6 | 98.8 | 95.8 | 94.8 | 105.7 | 113.5 | 131.3 | 115.8 | 75.2 | 84.7 | 101.2 | 674.0 | 474.4 | -0.8 |

STABILIZATION SUMMARY 03/08/2015 06:23:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:09 | 0:01:00 | 2.0 | 2.1 | 30.1 | 3.3 | 8.1 | 96.5 | 98.9 | 95.9 | 94.6 | 98.8 | 95.8 | 94.8 | 105.7 | 113.5 | 131.3 | 115.8 | 75.2 | 84.7 | 101.2 | 674.0 | 474.4 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0002.0 MAX TEMP: 098.8 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 131.4 MAX GAS TEMP: 075.3
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 094.6 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 131.2 MIN GAS TEMP: 075.2
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.9
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 115.7

LEAK CHECK 03/08/2015 06:23:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:09 | 0:00:00 | 2.0 | 2.1 | 30.1 | 3.3 | 8.1 | 96.5 | 98.9 | 95.9 | 94.6 | 98.8 | 95.8 | 94.8 | 105.7 | 113.5 | 131.3 | 115.8 | 75.2 | 84.7 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:25:09 | 0:01:00 | 2.0 | 2.1 | 30.1 | 3.8 | 9.1 | 96.8 | 99.2 | 96.3 | 94.9 | 99.1 | 96.1 | 95.1 | 104.8 | 111.9 | 131.1 | 115.7 | 75.2 | 84.0 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:26:09 | 0:02:00 | 2.0 | 2.2 | 30.1 | 3.8 | 9.1 | 97.0 | 99.4 | 96.5 | 95.0 | 99.3 | 96.4 | 95.3 | 104.2 | 109.4 | 131.1 | 115.6 | 75.2 | 83.3 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:27:09 | 0:03:00 | 2.1 | 2.2 | 30.1 | 4.7 | 11.2 | 97.2 | 99.6 | 96.8 | 95.2 | 99.5 | 96.5 | 95.4 | 104.2 | 107.7 | 131.1 | 115.5 | 75.2 | 82.5 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:28:09 | 0:04:00 | 2.1 | 2.2 | 30.1 | 4.7 | 11.1 | 97.3 | 99.7 | 96.9 | 95.4 | 99.7 | 96.8 | 95.6 | 104.5 | 108.2 | 131.1 | 115.5 | 75.2 | 81.8 | 101.3 | 674.0 | 474.4 | -0.7 |

LEAK CHECK SUMMARY 03/08/2015 06:28:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:09 | 0:05:00 | 2.1 | 2.2 | 30.1 | 5.2 | 12.1 | 97.5 | 99.9 | 97.1 | 95.5 | 99.9 | 96.9 | 95.7 | 104.9 | 109.5 | 130.9 | 115.5 | 75.3 | 81.1 | 101.2 | 674.0 | 474.4 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0002.1 MAX TEMP: 099.9 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 131.3 MAX GAS TEMP: 075.3
END PRESS: 0002.1 MIN PRESS: 0002.0 MIN TEMP: 094.8 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 130.8 MIN GAS TEMP: 075.2
PRESS CHANGE: 000.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.8
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 115.4

INITIAL N2 WASH(1) 03/08/2015 06:28:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:09 | 0:00:00 | 2.1 | 2.2 | 30.1 | 5.2 | 12.1 | 97.5 | 99.9 | 97.1 | 95.5 | 99.9 | 96.9 | 95.7 | 104.9 | 109.5 | 130.9 | 115.5 | 75.3 | 81.1 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:30:09 | 0:01:00 | 3.0 | 3.1 | 30.1 | 5.6 | 13.1 | 97.8 | 100.1 | 97.4 | 95.9 | 100.1 | 97.4 | 96.2 | 105.5 | 110.9 | 130.8 | 115.4 | 84.2 | 80.6 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:31:09 | 0:02:00 | 3.9 | 4.0 | 30.1 | 5.6 | 13.0 | 98.1 | 100.2 | 97.7 | 96.4 | 100.2 | 97.6 | 96.6 | 106.1 | 112.6 | 130.7 | 115.3 | 94.0 | 80.0 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:32:09 | 0:03:00 | 4.8 | 4.9 | 30.1 | 6.1 | 14.0 | 98.3 | 100.4 | 97.8 | 96.7 | 100.3 | 97.8 | 96.9 | 106.1 | 113.7 | 130.7 | 115.2 | 99.5 | 79.6 | 101.2 | 674.0 | 474.4 | -0.7 |
| 0:33:09 | 0:04:00 | 5.7 | 5.8 | 30.1 | 6.5 | 15.0 | 98.4 | 100.5 | 97.8 | 96.9 | 100.4 | 97.8 | 97.2 | 105.5 | 113.3 | 130.6 | 115.1 | 102.2 | 79.1 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:34:09 | 0:05:00 | 6.6 | 6.7 | 30.1 | 7.0 | 16.0 | 98.5 | 100.5 | 97.9 | 97.2 | 100.4 | 97.8 | 97.4 | 104.6 | 110.7 | 130.7 | 114.9 | 103.4 | 78.7 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:35:09 | 0:06:01 | 7.6 | 7.7 | 30.1 | 7.0 | 16.0 | 98.6 | 100.5 | 97.9 | 97.3 | 100.4 | 97.8 | 97.6 | 104.1 | 107.5 | 130.5 | 114.9 | 104.1 | 78.3 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:36:10 | 0:07:01 | 8.5 | 8.6 | 30.1 | 7.4 | 17.0 | 98.6 | 100.5 | 97.8 | 97.4 | 100.4 | 97.8 | 97.7 | 104.6 | 108.1 | 130.5 | 114.7 | 104.4 | 77.9 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:37:10 | 0:08:01 | 9.4 | 9.5 | 30.1 | 7.4 | 17.0 | 98.6 | 100.5 | 97.8 | 97.6 | 100.4 | 97.7 | 97.9 | 105.0 | 109.5 | 130.4 | 114.7 | 104.6 | 77.5 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:38:10 | 0:09:01 | 10.3 | 10.4 | 30.1 | 7.9 | 18.0 | 98.6 | 100.4 | 97.8 | 97.7 | 100.3 | 97.8 | 97.9 | 105.7 | 111.3 | 130.3 | 114.6 | 104.7 | 77.3 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:39:10 | 0:10:01 | 11.2 | 11.3 | 30.1 | 8.3 | 19.1 | 98.6 | 100.3 | 97.7 | 97.7 | 100.2 | 97.7 | 97.9 | 106.1 | 112.8 | 130.2 | 114.4 | 104.7 | 77.0 | 101.2 | 674.0 | 474.4 | -0.8 |

INITIAL N2 WASH(1) SUMMARY 03/08/2015 06:39:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:40:08 | 0:10:59 | 12.0 | 12.1 | 30.1 | 8.3 | 19.1 | 98.6 | 100.3 | 97.7 | 97.7 | 100.3 | 97.7 | 98.1 | 106.1 | 113.7 | 130.1 | 114.4 | 104.7 | 76.7 | 101.2 | 674.0 | 474.4 | -0.8 |

START PRESS: 0002.1 MAX PRESS: 0012.0 MAX TEMP: 100.4 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 130.9 MAX GAS TEMP: 104.7
END PRESS: 0012.0 MIN PRESS: 0002.1 MIN TEMP: 095.7 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 130.1 MIN GAS TEMP: 075.2



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000104

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

PRESS CHANGE: 009.9

ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.5

EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.3

INITIAL EVACUATION(2) 03/08/2015 06:39:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:40:08 | 0:00:00 | 12.0 | 12.1 | 30.1 | 8.3 | 19.1 | 98.6 | 100.3 | 97.7 | 97.7 | 100.3 | 97.7 | 98.1 | 106.1 | 113.7 | 130.1 | 114.4 | 104.7 | 76.7 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:41:08 | 0:01:00 | 10.3 | 10.5 | 30.1 | 7.0 | 16.3 | 97.8 | 99.6 | 96.9 | 96.8 | 99.5 | 96.9 | 97.1 | 105.2 | 112.2 | 130.1 | 114.3 | 102.4 | 80.6 | 101.1 | 674.0 | 474.3 | -0.8 |
| 0:42:08 | 0:02:00 | 9.1 | 9.2 | 30.1 | 6.1 | 14.3 | 97.5 | 99.4 | 96.6 | 96.5 | 99.3 | 96.4 | 96.7 | 104.2 | 108.2 | 129.9 | 114.2 | 99.6 | 82.5 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:43:08 | 0:03:00 | 7.8 | 7.9 | 30.1 | 5.6 | 13.3 | 97.3 | 99.2 | 96.4 | 96.2 | 99.1 | 96.4 | 96.5 | 104.7 | 108.2 | 129.8 | 114.2 | 97.0 | 83.7 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:44:08 | 0:04:00 | 6.5 | 6.6 | 30.1 | 5.2 | 12.3 | 97.2 | 99.2 | 96.3 | 96.1 | 99.1 | 96.3 | 96.4 | 105.4 | 110.5 | 129.8 | 114.1 | 94.8 | 84.5 | 101.1 | 674.0 | 474.4 | -0.8 |
| 0:45:09 | 0:05:00 | 5.2 | 5.3 | 30.1 | 3.8 | 9.1 | 97.1 | 99.2 | 96.3 | 95.9 | 99.0 | 96.2 | 96.2 | 106.2 | 113.2 | 129.9 | 114.0 | 92.8 | 85.1 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:46:09 | 0:06:01 | 4.1 | 4.2 | 30.1 | 3.8 | 9.1 | 97.1 | 99.2 | 96.2 | 95.8 | 99.1 | 96.1 | 96.0 | 105.7 | 113.3 | 129.7 | 114.5 | 91.1 | 85.3 | 101.4 | 674.0 | 474.3 | -0.8 |
| 0:47:09 | 0:07:01 | 3.3 | 3.4 | 30.1 | 2.9 | 6.9 | 97.2 | 99.3 | 96.4 | 95.8 | 99.2 | 96.3 | 96.1 | 104.3 | 108.4 | 129.7 | 116.7 | 89.5 | 85.3 | 101.4 | 674.0 | 474.4 | -0.8 |
| 0:48:09 | 0:08:01 | 2.6 | 2.7 | 30.1 | 2.4 | 5.8 | 97.3 | 99.5 | 96.6 | 95.9 | 99.3 | 96.4 | 96.1 | 104.7 | 108.1 | 129.6 | 116.7 | 88.1 | 85.1 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:49:09 | 0:09:01 | 2.2 | 2.3 | 30.1 | 2.4 | 5.8 | 97.5 | 99.7 | 96.8 | 96.0 | 99.6 | 96.7 | 96.2 | 105.6 | 110.9 | 129.5 | 116.5 | 86.9 | 84.8 | 101.3 | 674.0 | 474.4 | -0.7 |

INITIAL EVACUATION(2) SUMMARY 03/08/2015 06:48:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:49:35 | 0:09:27 | 2.0 | 2.1 | 30.1 | 2.4 | 5.7 | 97.6 | 99.8 | 97.0 | 96.0 | 99.6 | 96.8 | 96.2 | 104.3 | 107.3 | 129.5 | 116.4 | 86.4 | 84.6 | 101.3 | 674.0 | 474.3 | -0.8 |

START PRESS: 0012.0 MAX PRESS: 0012.1 MAX TEMP: 100.3 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 130.1 MAX GAS TEMP: 104.7

END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.0 DRM1 END: 674.0 DRM2 END: 474.3 MIN PRE TEMP: 129.5 MIN GAS TEMP: 086.4

PRESS CHANGE: 010.0

ETO USED 1: 000.0 ETO USED 2: 000.1 MAX VAP TEMP: 116.7

EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 113.9

HUMIDIFICATION(1) 03/08/2015 06:48:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:49:35 | 0:00:00 | 2.0 | 2.1 | 30.1 | 2.4 | 5.7 | 97.6 | 99.8 | 97.0 | 96.0 | 99.6 | 96.8 | 96.2 | 104.3 | 107.3 | 129.5 | 116.4 | 86.4 | 84.6 | 101.3 | 674.0 | 474.3 | -0.8 |
| 0:50:35 | 0:01:00 | 2.2 | 2.3 | 30.1 | 11.9 | 28.0 | 97.8 | 99.8 | 97.3 | 96.2 | 99.7 | 97.2 | 96.4 | 104.3 | 106.7 | 129.4 | 116.4 | 85.4 | 83.9 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:51:35 | 0:02:00 | 2.4 | 2.5 | 30.1 | 18.7 | 43.7 | 97.9 | 99.8 | 97.5 | 96.4 | 99.7 | 97.4 | 96.5 | 103.6 | 104.7 | 129.4 | 116.4 | 84.6 | 83.2 | 101.4 | 674.0 | 474.4 | -0.8 |
| 0:52:35 | 0:03:00 | 2.5 | 2.6 | 30.1 | 23.3 | 54.3 | 97.9 | 99.7 | 97.7 | 96.4 | 99.6 | 97.6 | 96.6 | 103.3 | 104.2 | 129.3 | 116.3 | 83.8 | 82.4 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:53:35 | 0:04:00 | 2.6 | 2.7 | 30.1 | 26.9 | 62.7 | 97.9 | 99.6 | 97.7 | 96.5 | 99.5 | 97.7 | 96.6 | 103.2 | 103.9 | 129.2 | 116.3 | 83.0 | 81.6 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:54:35 | 0:05:00 | 2.7 | 2.8 | 30.1 | 30.1 | 70.1 | 97.9 | 99.5 | 97.8 | 96.5 | 99.4 | 97.7 | 96.7 | 102.9 | 103.7 | 129.2 | 116.2 | 82.3 | 80.8 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:55:35 | 0:06:01 | 2.8 | 2.9 | 30.1 | 32.8 | 76.5 | 97.9 | 99.4 | 97.8 | 96.5 | 99.3 | 97.8 | 96.7 | 102.8 | 103.6 | 129.1 | 116.1 | 81.9 | 80.1 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:56:35 | 0:07:01 | 2.9 | 3.0 | 30.1 | 34.6 | 80.8 | 97.8 | 99.2 | 97.8 | 96.5 | 99.1 | 97.7 | 96.7 | 102.5 | 103.4 | 132.9 | 116.0 | 81.3 | 79.5 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:57:36 | 0:08:01 | 3.0 | 3.1 | 30.1 | 36.4 | 85.3 | 97.8 | 99.1 | 97.7 | 96.5 | 99.0 | 97.7 | 96.7 | 102.4 | 103.2 | 133.6 | 116.0 | 80.9 | 79.0 | 101.3 | 674.0 | 474.4 | -0.8 |
| 0:58:36 | 0:09:01 | 3.0 | 3.1 | 30.1 | 38.2 | 89.4 | 97.8 | 99.1 | 97.8 | 96.5 | 99.0 | 97.7 | 96.8 | 102.2 | 103.1 | 133.3 | 115.9 | 80.5 | 78.5 | 101.2 | 674.0 | 474.4 | -0.8 |
| 0:59:36 | 0:10:01 | 3.1 | 3.2 | 30.1 | 39.2 | 91.7 | 97.8 | 99.0 | 97.8 | 96.5 | 99.0 | 97.8 | 96.8 | 102.1 | 102.9 | 133.3 | 115.9 | 80.1 | 78.1 | 101.2 | 674.0 | 474.4 | -0.8 |
| 1:00:36 | 0:11:01 | 3.1 | 3.2 | 30.1 | 40.0 | 93.8 | 97.7 | 98.9 | 97.8 | 96.5 | 98.8 | 97.7 | 96.7 | 101.9 | 102.8 | 133.3 | 115.8 | 79.8 | 77.7 | 101.2 | 674.0 | 474.4 | -0.8 |

HUMIDIFICATION(1) SUMMARY 03/08/2015 06:59:40

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:00:39 | 0:11:04 | 3.2 | 3.3 | 30.1 | 40.0 | 93.8 | 97.7 | 98.9 | 97.8 | 96.5 | 98.8 | 97.7 | 96.8 | 101.9 | 102.7 | 133.3 | 115.8 | 79.8 | 77.7 | 101.2 | 674.0 | 474.4 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0003.2 MAX TEMP: 099.7 DRM1 START: 674.0 DRM2 START: 474.3 MAX PRE TEMP: 133.7 MAX GAS TEMP: 086.4

END PRESS: 0003.2 MIN PRESS: 0002.0 MIN TEMP: 096.2 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 129.0 MIN GAS TEMP: 079.8

PRESS CHANGE: 001.2

ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.5

EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 115.8

HUMIDIFICATION DWELL(1) 03/08/2015 06:59:40

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000105

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:00:39 | 0:00:00 | 3.2 | 3.3 | 30.1 | 40.0 | 93.8 | 97.7 | 98.9 | 97.8 | 96.5 | 98.8 | 97.7 | 96.8 | 101.9 | 102.7 | 133.3 | 115.8 | 79.8 | 77.7 | 101.2 | 674.0 | 474.4 | -0.8 |
| 1:01:39 | 0:01:00 | 3.2 | 3.3 | 30.1 | 41.0 | 96.1 | 97.7 | 98.9 | 97.7 | 96.5 | 98.8 | 97.7 | 96.8 | 101.8 | 102.6 | 133.3 | 115.8 | 79.5 | 77.3 | 101.2 | 674.0 | 474.4 | -0.8 |
| 1:02:39 | 0:02:00 | 3.1 | 3.2 | 30.1 | 39.6 | 93.0 | 97.7 | 98.8 | 97.7 | 96.5 | 98.8 | 97.7 | 96.8 | 101.6 | 102.5 | 133.2 | 115.7 | 79.2 | 76.9 | 101.1 | 674.0 | 474.4 | -0.8 |
| 1:03:39 | 0:03:00 | 3.1 | 3.2 | 30.1 | 38.2 | 89.7 | 97.7 | 98.8 | 97.7 | 96.6 | 98.8 | 97.7 | 96.9 | 101.5 | 102.4 | 133.1 | 115.7 | 79.0 | 76.6 | 101.1 | 674.0 | 474.4 | -0.8 |
| 1:04:40 | 0:04:00 | 3.2 | 3.3 | 30.1 | 40.0 | 94.0 | 97.7 | 98.7 | 97.7 | 96.6 | 98.7 | 97.7 | 96.8 | 101.4 | 102.2 | 133.1 | 115.6 | 78.8 | 76.4 | 101.2 | 674.0 | 474.4 | -0.8 |
| 1:05:40 | 0:05:00 | 3.1 | 3.2 | 30.1 | 38.7 | 91.0 | 97.6 | 98.6 | 97.7 | 96.5 | 98.6 | 97.7 | 96.9 | 101.2 | 102.1 | 133.0 | 115.5 | 78.5 | 76.2 | 101.1 | 674.0 | 474.4 | -0.8 |
| 1:06:40 | 0:06:00 | 3.1 | 3.2 | 30.1 | 37.3 | 87.9 | 97.5 | 98.5 | 97.6 | 96.5 | 98.6 | 97.6 | 96.8 | 101.1 | 102.0 | 133.0 | 115.5 | 78.4 | 75.9 | 101.1 | 674.0 | 474.4 | -0.8 |
| 1:07:40 | 0:07:01 | 3.2 | 3.3 | 30.1 | 39.6 | 93.4 | 97.5 | 98.4 | 97.6 | 96.5 | 98.4 | 97.6 | 96.8 | 101.0 | 101.8 | 132.9 | 115.4 | 78.2 | 75.7 | 101.0 | 674.0 | 474.4 | -0.8 |
| 1:08:40 | 0:08:01 | 3.2 | 3.3 | 30.1 | 38.2 | 90.3 | 97.5 | 98.3 | 97.6 | 96.5 | 98.4 | 97.6 | 96.8 | 100.8 | 101.7 | 132.7 | 115.3 | 78.1 | 75.4 | 101.0 | 674.0 | 474.3 | -0.8 |
| 1:09:40 | 0:09:01 | 3.1 | 3.2 | 30.1 | 37.3 | 88.2 | 97.5 | 98.3 | 97.6 | 96.5 | 98.3 | 97.4 | 96.7 | 100.7 | 101.5 | 132.6 | 115.2 | 77.9 | 75.2 | 100.9 | 674.0 | 474.4 | -0.8 |
| 1:10:40 | 0:10:01 | 3.1 | 3.2 | 30.1 | 36.0 | 84.9 | 97.5 | 98.3 | 97.6 | 96.5 | 98.3 | 97.4 | 96.8 | 100.7 | 101.5 | 132.7 | 115.2 | 77.9 | 75.1 | 101.0 | 674.0 | 474.4 | -0.8 |
| 1:11:40 | 0:11:01 | 3.2 | 3.3 | 30.1 | 39.1 | 92.8 | 97.3 | 98.1 | 97.5 | 96.4 | 98.1 | 97.4 | 96.7 | 100.5 | 101.4 | 132.6 | 115.2 | 77.7 | 75.0 | 101.0 | 674.0 | 474.4 | -0.8 |
| 1:12:40 | 0:12:01 | 3.2 | 3.3 | 30.1 | 37.8 | 89.6 | 97.3 | 98.0 | 97.5 | 96.4 | 98.1 | 97.4 | 96.8 | 100.3 | 101.2 | 132.3 | 115.1 | 77.5 | 74.8 | 100.9 | 674.0 | 474.4 | -0.8 |
| 1:13:41 | 0:13:01 | 3.2 | 3.3 | 30.1 | 36.4 | 86.7 | 97.2 | 97.9 | 97.4 | 96.3 | 98.1 | 97.4 | 96.7 | 100.2 | 101.1 | 132.2 | 115.0 | 77.4 | 74.8 | 101.0 | 674.0 | 474.4 | -0.8 |
| 1:14:41 | 0:14:01 | 3.1 | 3.2 | 30.1 | 35.5 | 84.3 | 97.3 | 98.0 | 97.4 | 96.4 | 98.0 | 97.4 | 96.7 | 100.2 | 101.0 | 132.2 | 115.0 | 77.4 | 74.7 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:15:41 | 0:15:02 | 3.1 | 3.2 | 30.1 | 35.1 | 83.4 | 97.2 | 97.9 | 97.4 | 96.4 | 98.0 | 97.4 | 96.7 | 100.0 | 100.9 | 132.1 | 114.9 | 77.3 | 74.6 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:16:41 | 0:16:02 | 3.1 | 3.2 | 30.1 | 34.2 | 81.4 | 97.1 | 97.8 | 97.3 | 96.3 | 97.8 | 97.3 | 96.7 | 99.9 | 100.8 | 132.2 | 114.8 | 77.2 | 74.6 | 100.9 | 674.0 | 474.4 | -0.8 |
| 1:17:41 | 0:17:02 | 3.2 | 3.3 | 30.1 | 38.2 | 91.0 | 97.2 | 97.8 | 97.4 | 96.4 | 97.8 | 97.4 | 96.7 | 99.9 | 100.7 | 132.2 | 114.8 | 77.2 | 74.5 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:18:41 | 0:18:02 | 3.2 | 3.3 | 30.1 | 37.3 | 89.2 | 97.0 | 97.6 | 97.2 | 96.3 | 97.8 | 97.4 | 96.7 | 99.7 | 100.6 | 132.0 | 114.7 | 77.0 | 74.5 | 100.9 | 674.0 | 474.4 | -0.8 |
| 1:19:41 | 0:19:02 | 3.2 | 3.3 | 30.1 | 36.4 | 87.1 | 97.0 | 97.6 | 97.2 | 96.3 | 97.6 | 97.3 | 96.6 | 99.6 | 100.5 | 131.7 | 114.7 | 77.0 | 74.3 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:20:41 | 0:20:02 | 3.2 | 3.3 | 30.1 | 35.5 | 84.9 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.6 | 101.3 | 105.5 | 131.7 | 114.6 | 76.9 | 74.3 | 100.8 | 674.0 | 474.3 | -0.8 |
| 1:21:41 | 0:21:02 | 3.2 | 3.3 | 30.1 | 34.6 | 82.8 | 97.0 | 97.6 | 97.2 | 96.2 | 97.7 | 97.3 | 96.6 | 100.4 | 102.6 | 131.5 | 114.5 | 76.9 | 74.2 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:22:42 | 0:22:02 | 3.1 | 3.3 | 30.1 | 34.6 | 82.7 | 97.0 | 97.6 | 97.2 | 96.3 | 97.6 | 97.3 | 96.6 | 100.0 | 101.4 | 131.6 | 114.5 | 76.8 | 74.2 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:23:42 | 0:23:02 | 3.1 | 3.3 | 30.1 | 33.7 | 80.7 | 97.0 | 97.6 | 97.2 | 96.2 | 97.7 | 97.3 | 96.6 | 100.4 | 104.8 | 131.5 | 114.4 | 76.7 | 74.2 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:24:42 | 0:24:02 | 3.1 | 3.2 | 30.1 | 32.8 | 78.4 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.6 | 100.7 | 103.4 | 131.4 | 114.4 | 76.7 | 74.1 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:25:42 | 0:25:03 | 3.1 | 3.2 | 30.1 | 32.8 | 78.4 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 100.1 | 101.8 | 131.4 | 114.3 | 76.6 | 74.1 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:26:42 | 0:26:03 | 3.1 | 3.2 | 30.1 | 32.3 | 77.2 | 97.1 | 97.7 | 97.3 | 96.3 | 97.8 | 97.3 | 96.7 | 99.9 | 101.2 | 131.2 | 114.2 | 76.6 | 74.0 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:27:42 | 0:27:03 | 3.1 | 3.2 | 30.1 | 31.9 | 76.2 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 99.8 | 100.8 | 131.1 | 114.2 | 76.6 | 74.0 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:28:42 | 0:28:03 | 3.1 | 3.2 | 30.1 | 31.4 | 75.0 | 97.1 | 97.7 | 97.3 | 96.3 | 97.8 | 97.3 | 96.7 | 99.6 | 100.6 | 131.1 | 114.1 | 76.5 | 73.9 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:29:42 | 0:29:03 | 3.1 | 3.2 | 30.1 | 31.0 | 73.9 | 97.1 | 97.7 | 97.3 | 96.3 | 97.8 | 97.3 | 96.7 | 99.4 | 100.4 | 131.1 | 114.0 | 76.4 | 74.0 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:30:42 | 0:30:03 | 3.1 | 3.2 | 30.1 | 31.0 | 74.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 99.4 | 100.4 | 131.0 | 114.1 | 76.4 | 74.0 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:31:42 | 0:31:03 | 3.1 | 3.2 | 30.1 | 31.0 | 74.2 | 97.0 | 97.6 | 97.2 | 96.2 | 97.8 | 97.3 | 96.7 | 99.3 | 100.2 | 130.8 | 115.4 | 76.4 | 73.9 | 101.1 | 674.0 | 474.3 | -0.8 |
| 1:32:43 | 0:32:03 | 3.2 | 3.3 | 30.1 | 34.6 | 82.9 | 97.0 | 97.5 | 97.2 | 96.2 | 97.6 | 97.2 | 96.6 | 100.5 | 106.2 | 130.8 | 116.7 | 76.3 | 73.9 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:33:43 | 0:33:03 | 3.2 | 3.3 | 30.1 | 33.7 | 80.7 | 97.0 | 97.5 | 97.2 | 96.2 | 97.6 | 97.3 | 96.7 | 100.5 | 104.0 | 130.7 | 116.7 | 76.3 | 73.8 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:34:43 | 0:34:04 | 3.2 | 3.3 | 30.1 | 33.2 | 79.5 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 101.0 | 105.1 | 130.6 | 116.7 | 76.3 | 73.8 | 100.7 | 674.0 | 474.4 | -0.6 |
| 1:35:43 | 0:35:04 | 3.2 | 3.3 | 30.1 | 32.8 | 78.4 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 100.1 | 102.3 | 130.6 | 116.5 | 76.2 | 73.8 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:36:43 | 0:36:04 | 3.2 | 3.3 | 30.1 | 32.3 | 77.3 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 99.7 | 101.2 | 130.4 | 116.4 | 76.2 | 73.8 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:37:43 | 0:37:04 | 3.2 | 3.3 | 30.1 | 31.9 | 76.1 | 97.1 | 97.7 | 97.3 | 96.4 | 97.8 | 97.3 | 96.7 | 99.5 | 100.8 | 130.4 | 116.4 | 76.2 | 73.8 | 100.8 | 674.0 | 474.4 | -0.8 |
| 1:38:43 | 0:38:04 | 3.2 | 3.3 | 30.1 | 31.4 | 75.2 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 99.4 | 100.5 | 130.3 | 116.3 | 76.1 | 73.7 | 100.7 | 674.0 | [illegible] | -0.8 |
| 1:39:43 | 0:39:04 | 3.2 | 3.3 | 30.1 | 31.0 | 74.1 | 97.0 | 97.6 | 97.2 | 96.3 | 97.6 | 97.2 | 96.6 | 99.2 | 100.3 | 130.2 | 116.2 | 76.1 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:40:43 | 0:40:04 | 3.2 | 3.3 | 30.1 | 31.0 | 74.1 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 99.2 | 100.2 | 130.1 | 116.2 | 76.1 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:41:43 | 0:41:04 | 3.2 | 3.3 | 30.1 | 30.5 | 73.0 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 99.0 | 100.0 | 130.0 | 116.1 | 76.0 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:42:44 | 0:42:04 | 3.2 | 3.3 | 30.1 | 30.1 | 71.9 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.7 | 100.3 | 104.2 | 129.9 | 116.0 | 76.0 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:43:44 | 0:43:04 | 3.2 | 3.3 | 30.1 | 30.1 | 72.0 | 97.0 | 97.6 | 97.2 | 96.2 | 97.7 | 97.3 | 96.7 | 100.3 | 104.2 | 129.9 | 116.0 | 76.0 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:44:44 | 0:44:05 | 3.2 | 3.3 | 30.1 | 29.6 | 70.8 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.3 | 96.6 | 100.0 | 103.8 | 129.8 | 115.9 | 75.9 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:45:44 | 0:45:05 | 3.2 | 3.3 | 30.1 | 29.6 | 70.8 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 99.6 | 101.6 | 129.7 | 115.9 | 76.0 | 73.6 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:46:44 | 0:46:05 | 3.2 | 3.3 | 30.1 | 29.6 | 70.7 | 97.1 | 97.7 | 97.3 | 96.4 | 97.8 | 97.3 | 96.7 | 99.4 | 100.7 | 129.6 | 115.8 | 76.0 | 73.7 | 100.7 | 674.0 | 474.4 | -0.8 |
| 1:47:44 | 0:47:05 | 3.2 | 3.3 | 30.1 | 29.2 | 69.7 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 99.7 | 102.5 | 129.4 | 115.7 | 75.9 | 73.6 | 100.6 | 674.0 | 474.3 | -0.8 |
| 1:48:44 | 0:48:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.5 | 97.1 | 97.7 | 97.2 | 96.4 | 97.7 | 97.2 | 96.7 | 99.3 | 100.9 | 129.5 | 115.6 | 75.9 | 73.6 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:49:44 | 0:49:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.6 | 97.1 | 97.7 | 97.2 | 96.3 | 97.7 | 97.2 | 96.7 | 99.1 | 100.3 | 129.4 | 115.6 | 75.8 | 73.6 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:50:44 | 0:50:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.6 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.2 | 96.7 | 99.2 | 100.9 | 129.3 | 115.6 | 75.9 | 73.6 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:51:44 | 0:51:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.7 | 97.0 | 97.6 | 97.2 | 96.3 | 97.7 | 97.2 | 96.7 | 98.9 | 100.1 | 129.2 | 115.5 | 75.8 | 73.6 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:52:45 | 0:52:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.9 | 96.9 | 97.5 | 97.1 | 96.2 | 97.8 | 97.2 | 96.7 | 98.7 | 100.3 | 129.1 | 115.3 | 75.8 | 73.6 | 100.6 | 674.0 | 474.4 | -0.8 |
| 1:53:45 | 0:53:05 | 3.2 | 3.3 | 30.1 | 28.7 | 68.6 | 97.1 | 97.7 | 97.2 | 96.4 | 97.8 | 97.2 | 96.7 | 100.5 | 104.9 | 133.8 | 115.4 | 75.8 | 73.6 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:54:45 | 0:54:06 | 3.2 | 3.3 | 30.1 | 28.3 | 67.5 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 100.0 | 104.2 | 134.0 | 115.3 | 75.8 | 73.6 | 100.5 | 674.0 | 474.4 | -0.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000106

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:55:45 | 0:55:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.4 | 97.1 | 97.7 | 97.2 | 96.4 | 97.8 | 97.3 | 96.7 | 99.4 | 101.6 | 133.6 | 115.2 | 75.7 | 73.5 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:56:45 | 0:56:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.5 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 99.2 | 100.6 | 133.6 | 115.1 | 75.7 | 73.5 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:57:45 | 0:57:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.4 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.8 | 99.0 | 100.2 | 133.5 | 115.1 | 75.7 | 73.5 | 100.5 | 674.0 | 474.4 | -0.8 |
| 1:58:45 | 0:58:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.5 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.8 | 98.9 | 99.9 | 133.3 | 115.0 | 75.7 | 73.5 | 100.5 | 674.0 | 474.4 | -0.7 |
| 1:59:45 | 0:59:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.4 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 98.7 | 99.7 | 133.4 | 114.9 | 75.6 | 73.5 | 100.5 | 674.0 | 474.4 | -0.8 |
| 2:00:45 | 1:00:06 | 3.2 | 3.3 | 30.1 | 27.8 | 66.5 | 97.0 | 97.6 | 97.1 | 96.3 | 97.8 | 97.2 | 96.7 | 98.6 | 99.6 | 133.2 | 114.9 | 75.6 | 73.4 | 100.4 | 674.0 | 474.4 | -0.8 |
| 2:01:46 | 1:01:06 | 3.2 | 3.3 | 30.1 | 27.4 | 65.4 | 97.0 | 97.7 | 97.1 | 96.3 | 97.9 | 97.2 | 96.7 | 100.7 | 105.9 | 133.2 | 114.8 | 75.5 | 73.3 | 100.3 | 674.0 | 474.3 | -0.8 |
| 2:02:46 | 1:02:06 | 3.2 | 3.3 | 30.1 | 27.4 | 65.4 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 99.5 | 102.1 | 133.2 | 114.7 | 75.5 | 73.4 | 100.4 | 674.0 | 474.4 | -0.8 |
| 2:03:46 | 1:03:07 | 3.2 | 3.3 | 30.1 | 27.4 | 65.4 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 99.1 | 100.7 | 133.1 | 114.7 | 75.6 | 73.3 | 100.3 | 674.0 | 474.3 | -0.8 |
| 2:04:46 | 1:04:07 | 3.2 | 3.3 | 30.1 | 27.3 | 65.2 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.9 | 100.1 | 133.1 | 114.6 | 75.5 | 73.3 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:05:46 | 1:05:07 | 3.2 | 3.3 | 30.1 | 26.9 | 64.3 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.8 | 99.9 | 133.0 | 114.6 | 75.5 | 73.3 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:06:46 | 1:06:07 | 3.2 | 3.3 | 30.1 | 26.9 | 64.3 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.6 | 99.6 | 133.0 | 114.5 | 75.5 | 73.3 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:07:46 | 1:07:07 | 3.2 | 3.3 | 30.1 | 26.9 | 64.3 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.5 | 99.5 | 132.9 | 114.4 | 75.5 | 73.3 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:08:46 | 1:08:07 | 3.2 | 3.3 | 30.1 | 26.9 | 64.3 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.3 | 96.7 | 98.4 | 99.4 | 132.8 | 114.4 | 75.5 | 73.2 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:09:46 | 1:09:07 | 3.3 | 3.4 | 30.1 | 26.9 | 64.5 | 97.0 | 97.6 | 97.1 | 96.2 | 97.8 | 97.2 | 96.7 | 100.2 | 105.4 | 132.8 | 114.3 | 75.5 | 73.2 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:10:47 | 1:10:07 | 3.3 | 3.4 | 30.1 | 26.9 | 64.4 | 97.0 | 97.7 | 97.1 | 96.2 | 97.9 | 97.3 | 96.7 | 100.5 | 106.7 | 132.7 | 114.2 | 75.4 | 73.2 | 100.1 | 674.0 | 474.4 | -0.6 |
| 2:11:47 | 1:11:07 | 3.3 | 3.4 | 30.1 | 26.5 | 63.3 | 97.0 | 97.7 | 97.1 | 96.3 | 97.9 | 97.2 | 96.7 | 99.7 | 102.8 | 132.5 | 114.2 | 75.3 | 73.1 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:12:47 | 1:12:08 | 3.3 | 3.4 | 30.1 | 26.5 | 63.1 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 99.1 | 100.9 | 132.5 | 114.1 | 75.3 | 73.2 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:13:47 | 1:13:08 | 3.3 | 3.4 | 30.1 | 26.5 | 63.2 | 97.1 | 97.8 | 97.2 | 96.3 | 98.0 | 97.3 | 96.8 | 98.9 | 100.1 | 132.5 | 114.1 | 75.3 | 73.1 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:14:47 | 1:14:08 | 3.3 | 3.4 | 30.1 | 26.5 | 63.1 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.6 | 99.8 | 132.5 | 114.4 | 75.3 | 73.1 | 100.4 | 674.0 | 474.4 | -0.8 |
| 2:15:47 | 1:15:08 | 3.3 | 3.4 | 30.1 | 26.5 | 63.2 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.5 | 99.6 | 132.3 | 116.7 | 75.3 | 73.1 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:16:47 | 1:16:08 | 3.3 | 3.4 | 30.1 | 26.5 | 63.2 | 97.1 | 97.7 | 97.2 | 96.3 | 97.8 | 97.2 | 96.7 | 98.4 | 99.4 | 132.3 | 116.7 | 75.3 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:17:47 | 1:17:08 | 3.3 | 3.4 | 30.1 | 26.4 | 63.0 | 97.0 | 97.7 | 97.1 | 96.3 | 97.9 | 97.2 | 96.7 | 98.4 | 101.2 | 132.3 | 116.5 | 75.2 | 73.1 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:18:47 | 1:18:08 | 3.3 | 3.4 | 30.1 | 26.0 | 62.1 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 99.5 | 102.9 | 132.2 | 116.5 | 75.2 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:19:48 | 1:19:08 | 3.3 | 3.4 | 30.1 | 26.0 | 61.9 | 97.1 | 97.8 | 97.2 | 96.4 | 97.9 | 97.2 | 96.7 | 98.8 | 100.7 | 132.1 | 116.4 | 75.2 | 73.0 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:20:48 | 1:20:08 | 3.3 | 3.4 | 30.1 | 26.0 | 62.2 | 97.0 | 97.7 | 97.1 | 96.3 | 97.9 | 97.3 | 96.7 | 98.5 | 99.9 | 132.0 | 116.3 | 75.1 | 72.9 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:21:48 | 1:21:09 | 3.3 | 3.4 | 30.1 | 26.0 | 62.0 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.4 | 99.5 | 131.9 | 116.3 | 75.1 | 72.9 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:22:48 | 1:22:09 | 3.3 | 3.4 | 30.1 | 26.0 | 62.3 | 97.0 | 97.7 | 97.1 | 96.2 | 97.9 | 97.2 | 96.7 | 98.3 | 99.3 | 131.9 | 116.2 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:23:48 | 1:23:09 | 3.3 | 3.4 | 30.1 | 26.0 | 62.3 | 97.0 | 97.6 | 97.1 | 96.2 | 97.8 | 97.2 | 96.7 | 100.2 | 106.5 | 131.9 | 116.2 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:24:48 | 1:24:09 | 3.3 | 3.4 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 99.5 | 102.7 | 131.8 | 116.1 | 75.2 | 72.9 | 100.2 | 674.0 | 474.4 | -0.7 |
| 2:25:48 | 1:25:09 | 3.3 | 3.4 | 30.1 | 25.6 | 61.0 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.8 | 100.6 | 131.7 | 116.0 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:26:48 | 1:26:09 | 3.3 | 3.4 | 30.1 | 25.5 | 61.0 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.6 | 99.9 | 131.6 | 116.0 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:27:48 | 1:27:09 | 3.3 | 3.4 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 98.4 | 99.6 | 131.5 | 115.9 | 75.1 | 73.0 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:28:49 | 1:28:09 | 3.3 | 3.4 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.3 | 99.4 | 131.5 | 115.9 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:29:49 | 1:29:09 | 3.3 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.8 | 98.1 | 99.1 | 131.4 | 115.8 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:30:49 | 1:30:09 | 3.3 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.8 | 100.5 | 106.5 | 131.5 | 115.7 | 75.1 | 73.0 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:31:49 | 1:31:10 | 3.3 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.3 | 96.8 | 99.2 | 102.1 | 131.4 | 115.6 | 75.0 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:32:49 | 1:32:10 | 3.3 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.8 | 97.2 | 96.3 | 98.0 | 97.3 | 96.8 | 98.7 | 100.4 | 131.3 | 115.6 | 75.1 | 73.0 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:33:49 | 1:33:10 | 3.4 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.8 | 97.2 | 96.3 | 98.0 | 97.3 | 96.8 | 98.4 | 99.7 | 131.4 | 115.5 | 75.0 | 73.0 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:34:49 | 1:34:10 | 3.4 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.8 | 97.2 | 96.3 | 97.9 | 97.3 | 96.7 | 98.3 | 99.4 | 131.3 | 115.5 | 75.1 | 73.1 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:35:49 | 1:35:10 | 3.4 | 3.5 | 30.1 | 25.5 | 61.2 | 97.0 | 97.7 | 97.1 | 96.2 | 97.9 | 97.3 | 96.7 | 98.1 | 99.2 | 131.2 | 115.4 | 75.0 | 73.1 | 100.2 | 674.0 | 474.4 | -0.8 |
| 2:36:49 | 1:36:10 | 3.4 | 3.5 | 30.1 | 25.5 | 61.1 | 97.0 | 97.7 | 97.1 | 96.3 | 97.9 | 97.3 | 96.8 | 98.0 | 99.4 | 131.0 | 115.3 | 75.0 | 73.1 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:37:50 | 1:37:10 | 3.4 | 3.5 | 30.1 | 25.5 | 61.0 | 97.1 | 97.7 | 97.2 | 96.3 | 97.9 | 97.2 | 96.7 | 99.7 | 103.7 | 131.0 | 115.2 | 75.0 | 73.1 | 100.1 | 674.0 | 474.3 | -0.8 |
| 2:38:50 | 1:38:10 | 3.4 | 3.5 | 30.1 | 25.5 | 60.9 | 97.1 | 97.8 | 97.2 | 96.3 | 98.0 | 97.3 | 96.7 | 98.8 | 100.9 | 131.0 | 115.2 | 75.0 | 73.1 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:39:50 | 1:39:11 | 3.4 | 3.5 | 30.1 | 25.5 | 60.9 | 97.1 | 97.8 | 97.2 | 96.4 | 98.0 | 97.3 | 96.8 | 98.5 | 99.9 | 130.9 | 115.1 | 75.1 | 73.2 | 100.2 | 674.0 | 474.3 | -0.8 |

HUMIDIFICATION DWELL(1) SUMMARY 03/08/2015 08:39:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (lbs.) | EO DRM2 (lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:40:39 | 1:40:80 | 3.4 | 3.5 | 30.1 | 25.1 | 59.7 | 97.2 | 97.9 | 97.3 | 96.4 | 98.0 | 97.3 | 96.8 | 98.4 | 99.6 | 130.8 | 115.1 | 75.1 | 73.2 | 100.1 | 674.0 | 474.4 | -0.8 |

START PRESS: 0003.2 MAX PRESS: 0003.4 MAX TEMP: 098.8 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 134.1 MAX GAS TEMP: 079.8
END PRESS: 0003.4 MIN PRESS: 0003.1 MIN TEMP: 096.6 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 129.0 MIN GAS TEMP: 075.0
PRESS CHANGE: 000.2 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 113.9

INITIAL EVACUATION(3) 03/08/2015 08:39:39

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000107

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:40:39 | 0:00:00 | 3.4 | 3.5 | 30.1 | 25.1 | 59.7 | 97.2 | 97.9 | 97.3 | 96.4 | 98.0 | 97.3 | 96.8 | 98.4 | 99.6 | 130.8 | 115.1 | 75.1 | 73.2 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:41:39 | 0:01:00 | 2.7 | 2.8 | 30.1 | 21.9 | 52.6 | 96.9 | 97.6 | 97.0 | 96.1 | 97.8 | 97.2 | 96.6 | 102.9 | 113.0 | 130.8 | 115.1 | 75.1 | 76.0 | 100.1 | 674.0 | 474.4 | -0.8 |
| 2:42:39 | 0:02:00 | 2.2 | 2.3 | 30.1 | 18.3 | 44.0 | 96.8 | 97.6 | 96.9 | 95.9 | 97.8 | 96.9 | 96.4 | 102.5 | 111.1 | 130.8 | 115.0 | 75.1 | 77.8 | 100.2 | 674.0 | 474.4 | -0.8 |

INITIAL EVACUATION(3) SUMMARY 03/08/2015 08:42:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:43:09 | 0:02:29 | 2.0 | 2.1 | 30.1 | 16.9 | 40.7 | 96.8 | 97.6 | 97.0 | 95.9 | 97.8 | 97.1 | 96.3 | 102.7 | 113.0 | 130.8 | 115.0 | 75.1 | 78.3 | 100.2 | 674.0 | 474.3 | -0.8 |

START PRESS: 0003.4 MAX PRESS: 0003.4 MAX TEMP: 098.0 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 130.8 MAX GAS TEMP: 075.1
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.3 DRM1 END: 674.0 DRM2 END: 474.3 MIN PRE TEMP: 130.7 MIN GAS TEMP: 075.0
PRESS CHANGE: 001.4 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.2
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 115.0

INITIAL N2 WASH(2) 03/08/2015 08:42:09

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:43:09 | 0:00:00 | 2.0 | 2.1 | 30.1 | 16.9 | 40.7 | 96.8 | 97.6 | 97.0 | 95.9 | 97.8 | 97.1 | 96.3 | 102.7 | 113.0 | 130.8 | 115.0 | 75.1 | 78.3 | 100.2 | 674.0 | 474.3 | -0.8 |
| 2:44:09 | 0:01:00 | 3.3 | 3.4 | 30.1 | 18.3 | 43.4 | 97.3 | 98.1 | 97.5 | 96.4 | 98.3 | 97.7 | 96.9 | 103.4 | 112.8 | 130.8 | 114.9 | 88.0 | 78.0 | 100.3 | 674.0 | 474.4 | -0.8 |

INITIAL N2 WASH(2) SUMMARY 03/08/2015 08:44:04

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:45:04 | 0:01:55 | 4.6 | 4.7 | 30.1 | 19.2 | 44.8 | 97.9 | 98.7 | 98.1 | 97.0 | 98.8 | 98.1 | 97.4 | 103.6 | 112.3 | 130.6 | 114.8 | 98.6 | 77.7 | 100.3 | 674.0 | 474.4 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0004.6 MAX TEMP: 098.8 DRM1 START: 674.0 DRM2 START: 474.3 MAX PRE TEMP: 130.8 MAX GAS TEMP: 098.6
END PRESS: 0004.6 MIN PRESS: 0002.0 MIN TEMP: 096.3 DRM1 END: 674.0 DRM2 END: 474.4 MIN PRE TEMP: 130.6 MIN GAS TEMP: 075.0
PRESS CHANGE: 002.6 ETO USED 1: 000.0 ETO USED 2: -000.1 MAX VAP TEMP: 115.0
EO USED PHASE: -000.1 EO USED CYCLE:000.0 MIN VAP TEMP: 114.8

STERILANT INJECTION(1) 03/08/2015 08:44:04

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:45:04 | 0:00:00 | 4.6 | 4.7 | 30.1 | 19.2 | 44.8 | 97.9 | 98.7 | 98.1 | 97.0 | 98.8 | 98.1 | 97.4 | 103.6 | 112.3 | 130.6 | 114.8 | 98.6 | 77.7 | 100.3 | 674.0 | 474.4 | -0.8 |
| 2:46:04 | 0:01:00 | 5.0 | 5.1 | 30.1 | 21.0 | 49.0 | 97.9 | 98.7 | 98.0 | 97.0 | 99.0 | 98.2 | 97.5 | 101.7 | 105.9 | 130.6 | 114.3 | 106.8 | 77.3 | 100.4 | 674.0 | [illegible] | 8.1 |
| 2:47:04 | 0:02:00 | 5.4 | 5.5 | 30.1 | 23.3 | 54.7 | 97.6 | 98.5 | 97.7 | 96.7 | 98.6 | 97.9 | 97.2 | 100.9 | 103.4 | 130.4 | 114.1 | 107.5 | 76.8 | 100.2 | 674.0 | [illegible] | 6.8 |
| 2:48:04 | 0:03:00 | 5.9 | 6.0 | 30.1 | 24.6 | 58.2 | 97.4 | 98.2 | 97.6 | 96.5 | 98.3 | 97.7 | 96.9 | 100.5 | 102.3 | 130.2 | 113.9 | 109.1 | 76.4 | 100.3 | 674.0 | [illegible] | 9.3 |
| 2:49:04 | 0:04:00 | 6.6 | 6.7 | 30.1 | 27.6 | 66.5 | 96.8 | 97.4 | 97.2 | 95.8 | 97.4 | 97.2 | 96.2 | 100.9 | 105.8 | 130.0 | 116.5 | 110.4 | 76.2 | 100.6 | 674.0 | [illegible] | 5.7 |
| 2:50:05 | 0:05:00 | 6.6 | 6.7 | 30.1 | 27.8 | 66.4 | 97.1 | 97.7 | 97.4 | 96.2 | 97.8 | 97.4 | 96.6 | 101.2 | 104.6 | 129.8 | 116.7 | 109.6 | 75.8 | 100.6 | 674.0 | [illegible] | 112.0 |
| 2:51:05 | 0:06:01 | 7.1 | 7.2 | 30.1 | 29.2 | 70.5 | 96.7 | 97.2 | 97.0 | 95.8 | 97.2 | 97.1 | 96.2 | 101.0 | 105.9 | 129.6 | 116.5 | 107.7 | 75.7 | 100.6 | 674.0 | [illegible] | 122.5 |
| 2:52:05 | 0:07:01 | 7.1 | 7.2 | 30.1 | 29.2 | 69.9 | 96.9 | 97.5 | 97.2 | 96.1 | 97.6 | 97.3 | 96.7 | 101.0 | 104.1 | 129.4 | 116.3 | 108.6 | 75.4 | 100.6 | 674.0 | [illegible] | 140.6 |
| 2:53:05 | 0:08:01 | 7.7 | 7.9 | 30.1 | 31.0 | 75.0 | 96.6 | 97.0 | 97.0 | 95.8 | 97.1 | 96.9 | 96.2 | 101.7 | 106.9 | 129.2 | 116.1 | 109.4 | 75.3 | 100.6 | 674.0 | [illegible] | 169.1 |
| 2:54:05 | 0:09:01 | 8.2 | 8.3 | 30.1 | 31.9 | 77.6 | 96.4 | 96.7 | 96.9 | 95.6 | 96.8 | 96.9 | 96.1 | 100.8 | 103.6 | 128.8 | 116.0 | 105.8 | 75.2 | 100.7 | 674.0 | 467.6 | 181.2 |
| 2:55:05 | 0:10:01 | 8.2 | 8.3 | 30.1 | 32.3 | 78.1 | 96.7 | 97.1 | 97.0 | 96.0 | 97.2 | 97.1 | 96.4 | 101.6 | 106.0 | 133.5 | 115.8 | 104.1 | 75.0 | 100.7 | 674.0 | 467.6 | 197.7 |
| 2:56:05 | 0:11:01 | 8.7 | 8.8 | 30.1 | 33.3 | 80.3 | 96.7 | 97.0 | 97.0 | 96.1 | 97.1 | 97.1 | 96.5 | 100.6 | 103.1 | 133.1 | 115.6 | 109.3 | 75.0 | 100.8 | 674.0 | 467.6 | 214.3 |
| 2:57:05 | 0:12:01 | 9.0 | 9.1 | 30.1 | 34.1 | 81.9 | 96.9 | 97.3 | 97.1 | 96.3 | 97.4 | 97.2 | 96.8 | 101.3 | 105.0 | 132.8 | 115.4 | 108.1 | 74.9 | 100.7 | 674.0 | 467.6 | 229.3 |
| 2:58:05 | 0:13:01 | 9.3 | 9.4 | 30.1 | 35.0 | 83.6 | 97.1 | 97.5 | 97.3 | 96.5 | 97.6 | 97.4 | 97.0 | 100.5 | 102.6 | 132.6 | 115.2 | 105.8 | 74.8 | 100.7 | 674.0 | 464.3 | 247.4 |
| 2:59:06 | 0:14:02 | 9.7 | 9.9 | 30.1 | 36.4 | 86.6 | 97.2 | 97.6 | 97.3 | 96.7 | 97.8 | 97.4 | 97.1 | 100.0 | 101.6 | 132.1 | 114.9 | 104.4 | 74.7 | 100.7 | 674.0 | 462.7 | 266.9 |
| 3:00:06 | 0:15:02 | 10.0 | 10.1 | 30.1 | 37.8 | 89.8 | 97.2 | 97.7 | 97.3 | 96.7 | 97.8 | 97.4 | 97.2 | 99.9 | 101.2 | 131.9 | 114.5 | 106.2 | 74.6 | 100.6 | 674.0 | 462.7 | 288.0 |
| 3:01:06 | 0:16:02 | 10.5 | 10.6 | 30.1 | 38.7 | 92.0 | 97.2 | 97.7 | 97.3 | 96.7 | 97.8 | 97.4 | 97.3 | 99.6 | 100.8 | 131.6 | 114.0 | 106.7 | 74.5 | 100.6 | 674.0 | 462.7 | 307.6 |
| 3:02:06 | 0:17:02 | 10.8 | 10.9 | 30.1 | 39.6 | 93.9 | 97.3 | 97.7 | 97.4 | 96.9 | 97.9 | 97.4 | 97.4 | 99.5 | 100.6 | 131.4 | 116.1 | 104.2 | 74.5 | 101.3 | 674.0 | 459.9 | 327.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000108

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:03:06 | 0:18:02 | 11.1 | 11.3 | 30.1 | 40.5 | 95.9 | 97.4 | 97.8 | 97.4 | 96.9 | 97.9 | 97.4 | 97.4 | 99.3 | 100.4 | 131.1 | 116.4 | 106.3 | 74.4 | 100.8 | 674.0 | 457.5 | 349.7 |
| 3:04:06 | 0:19:02 | 11.6 | 11.7 | 30.1 | 41.4 | 98.8 | 97.1 | 97.3 | 97.3 | 96.7 | 97.6 | 97.4 | 97.3 | 99.1 | 100.2 | 130.8 | 115.9 | 103.9 | 74.4 | 100.7 | 674.0 | 457.5 | 370.8 |
| 3:05:06 | 0:20:02 | 11.9 | 12.1 | 30.1 | 41.9 | 100.0 | 97.0 | 97.0 | 97.2 | 96.7 | 97.3 | 97.4 | 97.2 | 101.1 | 107.7 | 130.5 | 115.6 | 106.5 | 74.4 | 100.8 | 674.0 | 457.5 | 390.4 |
| 3:06:06 | 0:21:02 | 12.3 | 12.4 | 30.1 | 42.8 | 100.0 | 97.1 | 97.3 | 97.3 | 96.8 | 97.6 | 97.4 | 97.3 | 100.2 | 103.6 | 130.2 | 115.2 | 107.2 | 74.2 | 100.7 | 674.0 | 457.0 | 410.0 |
| 3:07:06 | 0:22:02 | 12.6 | 12.8 | 30.1 | 43.2 | 100.0 | 97.3 | 97.6 | 97.4 | 96.9 | 97.8 | 97.4 | 97.5 | 99.6 | 101.5 | 129.9 | 115.0 | 105.4 | 74.3 | 100.7 | 674.0 | 452.6 | 431.1 |
| 3:08:07 | 0:23:03 | 13.0 | 13.2 | 30.1 | 44.6 | 100.0 | 97.3 | 97.6 | 97.4 | 97.0 | 97.9 | 97.6 | 97.5 | 99.3 | 100.7 | 129.6 | 114.4 | 100.6 | 74.2 | 100.7 | 674.0 | 451.3 | 453.6 |
| 3:09:07 | 0:24:03 | 13.5 | 13.6 | 30.1 | 45.5 | 100.0 | 96.8 | 96.6 | 97.0 | 96.7 | 97.1 | 97.3 | 97.2 | 99.2 | 101.4 | 129.3 | 114.1 | 99.6 | 74.2 | 100.7 | 674.0 | 451.4 | 476.2 |
| 3:10:07 | 0:25:03 | 13.8 | 13.9 | 30.1 | 45.9 | 100.0 | 96.6 | 96.5 | 96.9 | 96.5 | 97.0 | 97.1 | 97.1 | 100.6 | 104.9 | 128.9 | 116.1 | 107.5 | 74.2 | 101.2 | 674.0 | 451.3 | 498.8 |
| 3:11:07 | 0:26:03 | 14.1 | 14.2 | 30.1 | 45.9 | 100.0 | 96.9 | 97.0 | 97.1 | 96.7 | 97.3 | 97.3 | 97.2 | 101.2 | 106.8 | 132.7 | 116.4 | 110.2 | 74.1 | 100.8 | 674.0 | 451.3 | 515.4 |

STERILANT INJECTION(1) SUMMARY 03/08/2015 09:10:26

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:11:25 | 0:26:21 | 14.2 | 14.3 | 30.1 | 46.4 | 100.0 | 97.0 | 97.2 | 97.1 | 96.7 | 97.5 | 97.3 | 97.2 | 101.0 | 105.5 | 133.9 | 116.3 | 109.4 | 74.1 | 100.8 | 674.0 | 451.3 | 523.0 |

START PRESS: 0004.6 MAX PRESS: 0014.2 MAX TEMP: 099.0 DRM1 START: 674.0 DRM2 START: 474.4 MAX PRE TEMP: 133.9 MAX GAS TEMP: 111.7
END PRESS: 0014.2 MIN PRESS: 0004.6 MIN TEMP: 095.9 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 125.6 MIN GAS TEMP: 098.0
PRESS CHANGE: 009.6 ETO USED 1: 000.1 ETO USED 2: 023.0 MAX VAP TEMP: 116.7
EO USED PHASE: 023.1 EO USED CYCLE: 023.1 MIN VAP TEMP: 113.9

N2 BLANKET(1) 03/08/2015 09:10:26

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:11:25 | 0:00:00 | 14.2 | 14.3 | 30.1 | 46.4 | 100.0 | 97.0 | 97.2 | 97.1 | 96.7 | 97.5 | 97.3 | 97.2 | 101.0 | 105.5 | 133.9 | 116.3 | 109.4 | 74.1 | 100.8 | 674.0 | 451.3 | 523.0 |
| 3:12:26 | 0:01:00 | 14.5 | 14.7 | 30.1 | 47.3 | 100.0 | 97.1 | 97.4 | 97.2 | 96.8 | 97.6 | 97.4 | 97.3 | 99.9 | 102.4 | 133.9 | 115.9 | 98.3 | 74.1 | 100.8 | 674.0 | 451.4 | 542.5 |
| 3:13:26 | 0:02:00 | 14.9 | 15.1 | 30.1 | 47.8 | 100.0 | 97.3 | 97.6 | 97.3 | 96.9 | 97.8 | 97.4 | 97.5 | 99.5 | 101.1 | 133.6 | 115.8 | 97.8 | 74.0 | 100.8 | 674.0 | 451.4 | 556.2 |
| 3:14:26 | 0:03:00 | 15.3 | 15.4 | 30.1 | 47.7 | 100.0 | 97.4 | 97.8 | 97.4 | 97.0 | 98.0 | 97.6 | 97.5 | 99.2 | 100.6 | 133.3 | 115.7 | 98.8 | 73.9 | 100.7 | 674.0 | 451.4 | 559.0 |
| 3:15:26 | 0:04:00 | 15.7 | 15.8 | 30.1 | 47.8 | 100.0 | 97.4 | 97.8 | 97.4 | 97.0 | 98.1 | 97.7 | 97.7 | 99.0 | 100.2 | 133.0 | 115.6 | 99.6 | 73.9 | 100.7 | 674.0 | 451.3 | 559.2 |
| 3:16:26 | 0:05:00 | 16.1 | 16.2 | 30.1 | 47.7 | 100.0 | 97.6 | 98.0 | 97.5 | 97.2 | 98.1 | 97.7 | 97.7 | 98.9 | 100.0 | 132.7 | 115.6 | 100.4 | 73.8 | 100.7 | 674.0 | 451.3 | 557.6 |
| 3:17:26 | 0:06:01 | 16.4 | 16.5 | 30.1 | 47.7 | 100.0 | 97.6 | 98.0 | 97.6 | 97.2 | 98.1 | 97.7 | 97.7 | 98.7 | 99.8 | 132.4 | 115.5 | 100.8 | 73.8 | 100.6 | 674.0 | 451.3 | 554.6 |
| 3:18:26 | 0:07:01 | 16.7 | 16.9 | 30.1 | 48.2 | 100.0 | 97.6 | 98.0 | 97.6 | 97.2 | 98.2 | 97.8 | 97.8 | 98.6 | 99.6 | 132.2 | 115.4 | 101.1 | 73.7 | 100.6 | 674.0 | 451.3 | 553.1 |
| 3:19:26 | 0:08:01 | 17.1 | 17.2 | 30.1 | 47.8 | 100.0 | 97.6 | 98.0 | 97.6 | 97.3 | 98.2 | 97.8 | 97.8 | 98.5 | 99.4 | 132.1 | 115.3 | 101.2 | 73.7 | 100.6 | 674.0 | 451.3 | 550.0 |
| 3:20:26 | 0:09:01 | 17.5 | 17.6 | 30.1 | 47.7 | 100.0 | 97.7 | 98.0 | 97.7 | 97.3 | 98.2 | 97.8 | 97.8 | 98.4 | 99.3 | 131.9 | 115.3 | 101.3 | 73.7 | 100.5 | 674.0 | 451.4 | 548.5 |
| 3:21:27 | 0:10:01 | 17.9 | 18.0 | 30.1 | 48.2 | 100.0 | 97.6 | 98.0 | 97.6 | 97.3 | 98.2 | 97.8 | 97.8 | 98.2 | 99.2 | 131.6 | 115.2 | 101.3 | 73.6 | 100.5 | 674.0 | 451.4 | 548.5 |
| 3:22:27 | 0:11:01 | 18.2 | 18.4 | 30.1 | 48.2 | 100.0 | 97.7 | 98.1 | 97.7 | 97.4 | 98.2 | 97.8 | 97.9 | 98.1 | 99.0 | 131.5 | 115.1 | 101.2 | 73.6 | 100.5 | 674.0 | 451.4 | 547.1 |
| 3:23:27 | 0:12:01 | 18.6 | 18.8 | 30.1 | 48.2 | 100.0 | 97.6 | 98.0 | 97.6 | 97.3 | 98.3 | 97.8 | 97.9 | 98.8 | 103.4 | 131.4 | 115.0 | 101.1 | 73.5 | 100.5 | 674.0 | 451.4 | 544.1 |
| 3:24:27 | 0:13:01 | 18.9 | 19.1 | 30.1 | 48.2 | 100.0 | 97.8 | 98.2 | 97.7 | 97.4 | 98.4 | 97.9 | 97.9 | 99.7 | 103.7 | 131.2 | 115.0 | 101.1 | 73.6 | 100.5 | 674.0 | 451.4 | 544.1 |
| 3:25:27 | 0:14:01 | 19.3 | 19.4 | 30.1 | 48.2 | 100.0 | 97.8 | 98.2 | 97.8 | 97.5 | 98.4 | 97.9 | 97.9 | 98.8 | 100.9 | 131.1 | 114.8 | 100.9 | 73.5 | 100.5 | 674.0 | 451.3 | 542.5 |
| 3:26:27 | 0:15:02 | 19.6 | 19.8 | 30.1 | 48.2 | 100.0 | 97.9 | 98.3 | 97.8 | 97.5 | 98.4 | 97.9 | 97.9 | 98.5 | 99.9 | 131.0 | 114.8 | 100.8 | 73.5 | 100.5 | 674.0 | 451.4 | 541.0 |
| 3:27:27 | 0:16:02 | 20.0 | 20.2 | 30.1 | 48.2 | 100.0 | 97.8 | 98.2 | 97.8 | 97.5 | 98.5 | 97.9 | 98.1 | 98.3 | 99.5 | 130.8 | 114.7 | 100.7 | 73.5 | 100.5 | 674.0 | 451.3 | 539.5 |
| 3:28:27 | 0:17:02 | 20.4 | 20.6 | 30.1 | 48.2 | 100.0 | 97.9 | 98.3 | 97.9 | 97.5 | 98.5 | 98.1 | 98.2 | 98.2 | 99.3 | 130.7 | 114.7 | 100.6 | 73.5 | 100.4 | 674.0 | 451.3 | 538.0 |
| 3:29:27 | 0:18:02 | 20.8 | 20.9 | 30.1 | 48.2 | 100.0 | 97.9 | 98.3 | 97.9 | 97.6 | 98.5 | 98.1 | 98.2 | 98.1 | 99.1 | 130.6 | 114.5 | 100.4 | 73.6 | 100.5 | 674.0 | 451.3 | 538.0 |
| 3:30:28 | 0:19:02 | 21.1 | 21.3 | 30.1 | 48.7 | 100.0 | 98.0 | 98.4 | 97.9 | 97.6 | 98.6 | 98.2 | 98.2 | 102.4 | 112.2 | 130.3 | 114.4 | 100.3 | 73.5 | 100.4 | 674.0 | 451.4 | 536.5 |
| 3:31:28 | 0:20:02 | 21.5 | 21.7 | 30.1 | 48.7 | 100.0 | 98.1 | 98.5 | 98.0 | 97.7 | 98.8 | 98.2 | 98.3 | 100.1 | 104.5 | 130.2 | 114.4 | 100.2 | 73.6 | 100.4 | 674.0 | 451.4 | 534.9 |
| 3:32:28 | 0:21:02 | 21.9 | 22.0 | 30.1 | 48.7 | 100.0 | 98.2 | 98.6 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 98.4 | 99.3 | 130.2 | 114.3 | 100.1 | 73.7 | 100.4 | 674.0 | 451.4 | 533.4 |
| 3:33:28 | 0:22:02 | 22.2 | 22.4 | 30.1 | 48.7 | 100.0 | 98.1 | 98.5 | 98.0 | 97.8 | 98.8 | 98.3 | 98.4 | 97.2 | 96.4 | 130.0 | 114.2 | 100.0 | 73.7 | 100.4 | 674.0 | 451.4 | 533.5 |
| 3:34:28 | 0:23:02 | 22.6 | 22.7 | 30.1 | 48.7 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 97.3 | 97.0 | 129.9 | 114.2 | 99.9 | 73.7 | 100.3 | 674.0 | 451.4 | 532.0 |
| 3:35:28 | 0:24:03 | 22.9 | 23.1 | 30.1 | 48.7 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.7 | 98.2 | 98.3 | 97.4 | 97.6 | 129.8 | 114.1 | 99.8 | 73.7 | 100.3 | 674.0 | 451.4 | 530.5 |
| 3:36:28 | 0:25:03 | 23.3 | 23.4 | 30.1 | 49.1 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.5 | 98.0 | 129.6 | 114.1 | 99.8 | 73.8 | 100.4 | 674.0 | 451.3 | 530.5 |
| 3:37:28 | 0:26:03 | 23.6 | 23.8 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.4 | 98.1 | 129.6 | 116.5 | 99.8 | 73.7 | 100.6 | 674.0 | 451.4 | 530.4 |
| 3:38:28 | 0:27:03 | 24.0 | 24.2 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 97.4 | 98.1 | 129.3 | 116.7 | 100.1 | 73.7 | 100.5 | 674.0 | 451.3 | 529.0 |
| 3:39:29 | 0:28:03 | 24.4 | 24.6 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.3 | 98.1 | 129.2 | 116.7 | 100.3 | 73.8 | 100.6 | 674.0 | 451.3 | 527.5 |
| 3:40:29 | 0:29:03 | 24.8 | 24.9 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.2 | 98.4 | 97.3 | 98.1 | 129.1 | 116.5 | 100.5 | 73.8 | 100.5 | 674.0 | 451.3 | 527.5 |
| 3:41:29 | 0:30:03 | 25.2 | 25.3 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 97.2 | 98.1 | 133.6 | 116.4 | 100.6 | 73.9 | 100.6 | 674.0 | 451.4 | 527.4 |
| 3:42:29 | 0:31:03 | 25.5 | 25.7 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.1 | 133.5 | 116.4 | 100.7 | 73.9 | 100.5 | 674.0 | 451.4 | 527.4 |
| 3:43:29 | 0:32:03 | 25.8 | 26.0 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.9 | 133.0 | 116.3 | 100.7 | 73.9 | 100.5 | 674.0 | 451.3 | 527.5 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000109

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:44:29 | 0:33:04 | 26.2 | 26.4 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.9 | 132.9 | 116.2 | 100.6 | 74.0 | 100.6 | 674.0 | 451.3 | 527.4 |
| | N2 BLANKET(1) SUMMARY | | | | 03/08/2015 09:43:35 | | | | | | | | | | | | | | | | | | |
| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
| 3:44:34 | 0:33:04 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.8 | 132.9 | 116.1 | 100.6 | 74.0 | 100.5 | 674.0 | 451.3 | 527.4 |

START PRESS: 0014.2 MAX PRESS: 0026.3 MAX TEMP: 098.8 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 134.1 MAX GAS TEMP: 109.4
END PRESS: 0026.3 MIN PRESS: 0014.2 MIN TEMP: 097.2 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 097.5
PRESS CHANGE: 012.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

EXPOSURE(1) 03/08/2015 09:43:35

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:44:34 | 0:00:00 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.8 | 132.9 | 116.1 | 100.6 | 74.0 | 100.5 | 674.0 | 451.3 | 527.4 |
| 3:45:34 | 0:01:00 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.9 | 97.8 | 132.8 | 116.1 | 99.3 | 73.9 | 100.5 | 674.0 | 451.4 | 521.4 |
| 3:46:34 | 0:02:00 | 26.3 | 26.4 | 30.1 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.3 | 97.0 | 99.4 | 132.6 | 116.1 | 97.3 | 73.9 | 100.5 | 674.0 | 451.3 | 515.4 |
| 3:47:34 | 0:03:00 | 26.3 | 26.5 | 30.1 | 48.7 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 103.4 | 118.7 | 132.4 | 116.0 | 95.5 | 73.9 | 100.5 | 674.0 | 451.3 | 512.4 |
| 3:48:35 | 0:04:00 | 26.3 | 26.5 | 30.1 | 48.7 | 100.0 | 98.2 | 98.7 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 102.2 | 112.1 | 132.3 | 115.9 | 93.8 | 73.8 | 100.6 | 674.0 | 451.4 | 510.9 |
| 3:49:35 | 0:05:01 | 26.3 | 26.5 | 30.1 | 48.7 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 98.6 | 100.7 | 132.3 | 115.9 | 92.4 | 73.8 | 100.5 | 674.0 | 451.4 | 510.9 |
| 3:50:35 | 0:06:01 | 26.3 | 26.5 | 30.1 | 48.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 96.6 | 132.2 | 115.8 | 91.0 | 73.9 | 100.5 | 674.0 | 451.4 | 510.8 |
| 3:51:35 | 0:07:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 96.9 | 132.0 | 115.7 | 89.7 | 73.9 | 100.5 | 674.0 | 451.3 | 509.4 |
| 3:52:35 | 0:08:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.3 | 98.5 | 97.4 | 97.5 | 131.9 | 115.7 | 88.7 | 73.8 | 100.6 | 674.0 | 451.4 | 509.3 |
| 3:53:35 | 0:09:01 | 26.3 | 26.5 | 30.1 | 48.7 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.3 | 97.8 | 131.8 | 115.5 | 87.8 | 73.8 | 100.5 | 674.0 | 451.4 | 509.4 |
| 3:54:35 | 0:10:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.3 | 97.9 | 131.8 | 115.5 | 86.7 | 73.8 | 100.5 | 674.0 | 451.4 | 509.4 |
| 3:55:35 | 0:11:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.7 | 98.3 | 98.4 | 97.2 | 98.0 | 131.6 | 115.5 | 86.0 | 73.8 | 100.4 | 674.0 | 451.4 | 509.4 |
| 3:56:35 | 0:12:01 | 26.3 | 26.5 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.0 | 131.5 | 115.4 | 85.3 | 73.8 | 100.5 | 674.0 | 451.4 | 510.9 |
| 3:57:36 | 0:13:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.1 | 98.0 | 131.4 | 115.3 | 84.6 | 73.8 | 100.4 | 674.0 | 451.4 | 510.9 |
| 3:58:36 | 0:14:01 | 26.3 | 26.5 | 30.1 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 97.0 | 97.9 | 131.2 | 115.2 | 83.9 | 73.8 | 100.4 | 674.0 | 451.4 | 510.9 |
| 3:59:36 | 0:15:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.9 | 131.2 | 115.2 | 83.4 | 73.8 | 100.4 | 674.0 | 451.4 | 510.9 |
| 4:00:36 | 0:16:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.8 | 131.1 | 115.1 | 82.8 | 73.8 | 100.4 | 674.0 | 451.3 | 510.9 |
| 4:01:36 | 0:17:02 | 26.3 | 26.4 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.8 | 97.7 | 131.2 | 115.1 | 82.3 | 73.8 | 100.4 | 674.0 | 451.3 | 510.9 |
| 4:02:36 | 0:18:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.8 | 97.7 | 131.0 | 115.0 | 81.9 | 73.7 | 100.3 | 674.0 | 451.4 | 510.9 |
| 4:03:36 | 0:19:02 | 26.3 | 26.4 | 30.1 | 49.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.7 | 97.7 | 130.8 | 115.0 | 81.6 | 73.7 | 100.3 | 674.0 | 451.4 | 510.8 |
| 4:04:36 | 0:20:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.6 | 97.5 | 130.7 | 114.8 | 81.1 | 73.7 | 100.3 | 674.0 | 451.3 | 510.9 |
| 4:05:36 | 0:21:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.6 | 97.5 | 130.6 | 114.8 | 80.8 | 73.7 | 100.2 | 674.0 | 451.3 | 510.9 |
| 4:06:37 | 0:22:02 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 100.3 | 110.6 | 130.6 | 114.8 | 80.5 | 73.7 | 100.3 | 674.0 | 451.3 | 510.9 |
| 4:07:37 | 0:23:02 | 26.3 | 26.4 | 30.1 | 49.5 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.8 | 98.3 | 98.5 | 104.3 | 119.8 | 130.7 | 114.7 | 80.2 | 73.7 | 100.4 | 674.0 | 451.4 | 510.8 |
| 4:08:37 | 0:24:03 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 99.4 | 104.1 | 130.6 | 114.6 | 79.9 | 73.7 | 100.3 | 674.0 | 451.4 | 510.9 |
| 4:09:37 | 0:25:03 | 26.3 | 26.4 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.4 | 130.4 | 114.6 | 79.6 | 73.7 | 100.4 | 674.0 | 451.4 | 510.9 |
| 4:10:37 | 0:26:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.0 | 130.2 | 114.5 | 79.4 | 73.7 | 100.3 | 674.0 | 451.3 | 510.9 |
| 4:11:37 | 0:27:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 130.1 | 114.4 | 79.2 | 73.7 | 100.3 | 674.0 | 451.4 | 510.9 |
| 4:12:37 | 0:28:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.1 | 97.6 | 130.1 | 114.3 | 78.9 | 73.7 | 100.3 | 674.0 | 451.4 | 510.9 |
| 4:13:37 | 0:29:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 97.1 | 97.7 | 130.0 | 114.3 | 78.7 | 73.7 | 100.3 | 674.0 | 451.3 | 510.8 |
| 4:14:37 | 0:30:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 130.0 | 114.2 | 78.5 | 73.7 | 100.2 | 674.0 | 451.3 | 510.9 |
| 4:15:38 | 0:31:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 97.8 | 130.1 | 114.2 | 78.3 | 73.7 | 100.3 | 674.0 | 451.3 | 510.9 |
| 4:16:38 | 0:32:03 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 130.1 | 114.1 | 78.1 | 73.7 | 100.2 | 674.0 | 451.3 | 510.9 |
| 4:17:38 | 0:33:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 130.0 | 114.1 | 78.0 | 73.7 | 100.1 | 674.0 | 451.3 | 510.9 |
| 4:18:38 | 0:34:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 130.0 | 114.0 | 77.8 | 73.7 | 100.2 | 674.0 | 451.3 | 510.9 |
| 4:19:38 | 0:35:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.7 | 97.6 | 129.9 | 116.3 | 77.7 | 73.7 | 100.6 | 674.0 | 451.4 | 510.8 |
| 4:20:38 | 0:36:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.7 | 97.6 | 129.8 | 116.7 | 77.6 | 73.7 | 100.5 | 674.0 | 451.4 | 509.4 |
| 4:21:38 | 0:37:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.5 | 129.8 | 116.7 | 77.4 | 73.7 | 100.5 | 674.0 | 451.4 | 509.3 |
| 4:22:38 | 0:38:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 129.7 | 116.7 | 77.3 | 73.7 | 100.5 | 674.0 | 451.4 | 509.4 |
| 4:23:38 | 0:39:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 129.7 | 116.5 | 77.2 | 73.7 | 100.4 | 674.0 | 451.4 | 509.3 |
| 4:24:38 | 0:40:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 97.4 | 102.3 | 129.6 | 116.4 | 77.1 | 73.6 | 100.4 | 674.0 | 451.3 | 509.4 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000110

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:25:39 | 0:41:04 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.3 | 103.6 | 119.6 | 129.5 | 116.4 | 76.9 | 73.6 | 100.5 | 674.0 | 451.3 | 509.4 |
| 4:26:39 | 0:42:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.5 | 102.6 | 113.8 | 129.6 | 116.3 | 76.8 | 73.7 | 100.5 | 674.0 | 451.3 | 509.4 |
| 4:27:39 | 0:43:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 98.7 | 101.4 | 129.5 | 116.3 | 76.8 | 73.6 | 100.5 | 674.0 | 451.4 | 509.4 |
| 4:28:39 | 0:44:05 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.4 | 98.8 | 98.4 | 98.1 | 99.0 | 98.5 | 98.6 | 97.2 | 96.9 | 129.5 | 116.2 | 76.6 | 73.7 | 100.6 | 674.0 | 451.3 | 509.4 |
| 4:29:39 | 0:45:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.3 | 97.9 | 98.8 | 98.5 | 98.6 | 97.2 | 97.2 | 129.5 | 116.1 | 76.6 | 73.7 | 100.6 | 674.0 | 451.4 | 509.4 |
| 4:30:39 | 0:46:05 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.4 | 129.4 | 116.0 | 76.4 | 73.7 | 100.5 | 674.0 | 451.3 | 509.4 |
| 4:31:39 | 0:47:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 97.3 | 97.8 | 129.2 | 116.0 | 76.4 | 73.7 | 100.5 | 674.0 | 451.3 | 509.4 |
| 4:32:39 | 0:48:05 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.2 | 97.9 | 129.2 | 115.9 | 76.3 | 73.7 | 100.5 | 674.0 | 451.3 | 509.4 |
| 4:33:39 | 0:49:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.1 | 97.9 | 129.1 | 115.9 | 76.2 | 73.6 | 100.5 | 674.0 | 451.4 | 509.3 |
| 4:34:40 | 0:50:05 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.9 | 133.7 | 115.8 | 76.1 | 73.6 | 100.4 | 674.0 | 451.3 | 509.4 |
| 4:35:40 | 0:51:06 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.9 | 97.8 | 133.5 | 115.7 | 76.0 | 73.6 | 100.4 | 674.0 | 451.3 | 509.3 |
| 4:36:40 | 0:52:06 | 26.3 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.7 | 133.5 | 115.6 | 75.9 | 73.6 | 100.4 | 674.0 | 451.3 | 509.4 |
| 4:37:40 | 0:53:06 | 26.3 | 26.4 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.7 | 133.4 | 115.5 | 75.9 | 73.7 | 100.4 | 674.0 | 451.3 | 509.4 |
| 4:38:40 | 0:54:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.7 | 133.7 | 115.5 | 75.8 | 73.6 | 100.3 | 674.0 | 451.3 | 509.4 |
| 4:39:40 | 0:55:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 133.5 | 115.4 | 75.7 | 73.6 | 100.4 | 674.0 | 451.3 | 509.3 |
| 4:40:40 | 0:56:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.5 | 98.3 | 98.4 | 96.6 | 97.6 | 133.4 | 115.4 | 75.7 | 73.6 | 100.3 | 674.0 | 451.3 | 509.4 |
| 4:41:40 | 0:57:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.5 | 133.3 | 115.3 | 75.6 | 73.6 | 100.3 | 674.0 | 451.4 | 509.4 |
| 4:42:40 | 0:58:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 133.4 | 115.2 | 75.6 | 73.6 | 100.3 | 674.0 | 451.4 | 507.9 |
| 4:43:40 | 0:59:06 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 133.2 | 115.1 | 75.5 | 73.6 | 100.2 | 674.0 | 451.4 | 507.9 |

EXPOSURE(1) SUMMARY 03/08/2015 10:43:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:44:34 | 1:00:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.3 | 97.3 | 133.3 | 115.1 | 75.5 | 73.6 | 100.3 | 674.0 | 451.3 | 509.4 |

START PRESS: 0026.3 MAX PRESS: 0026.3 MAX TEMP: 099.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.8 MAX GAS TEMP: 100.6
END PRESS: 0026.2 MIN PRESS: 0026.2 MIN TEMP: 098.1 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 075.5
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

EXPOSURE(2) 03/08/2015 10:43:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:44:34 | 0:00:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.3 | 97.3 | 133.3 | 115.1 | 75.5 | 73.6 | 100.3 | 674.0 | 451.3 | 509.4 |
| 4:45:34 | 0:01:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.4 | 100.0 | 110.0 | 133.2 | 115.0 | 75.4 | 73.6 | 100.4 | 674.0 | 451.3 | 507.8 |
| 4:46:34 | 0:02:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 104.2 | 120.1 | 133.1 | 115.0 | 75.4 | 73.5 | 100.3 | 674.0 | 451.4 | 507.9 |
| 4:47:35 | 0:03:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 99.3 | 104.2 | 133.0 | 115.0 | 75.4 | 73.6 | 100.4 | 674.0 | 451.3 | 507.9 |
| 4:48:35 | 0:04:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.3 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.5 | 133.0 | 114.9 | 75.3 | 73.5 | 100.3 | 674.0 | 451.3 | 507.8 |
| 4:49:35 | 0:05:00 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.0 | 97.0 | 132.9 | 114.8 | 75.3 | 73.6 | 100.3 | 674.0 | 451.3 | 507.9 |
| 4:50:35 | 0:06:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 133.0 | 114.7 | 75.3 | 73.6 | 100.4 | 674.0 | 451.3 | 507.8 |
| 4:51:35 | 0:07:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.6 | 132.8 | 114.7 | 75.2 | 73.6 | 100.3 | 674.0 | 451.3 | 507.9 |
| 4:52:35 | 0:08:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.7 | 132.7 | 114.6 | 75.1 | 73.7 | 100.4 | 674.0 | 451.3 | 507.9 |
| 4:53:35 | 0:09:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 132.6 | 114.5 | 75.1 | 73.6 | 100.3 | 674.0 | 451.3 | 507.9 |
| 4:54:35 | 0:10:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.4 | 98.2 | 97.9 | 98.6 | 98.3 | 98.5 | 96.9 | 97.7 | 132.6 | 114.5 | 75.1 | 73.7 | 100.3 | 674.0 | 451.3 | 507.9 |
| 4:55:35 | 0:11:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 132.7 | 114.4 | 75.1 | 73.7 | 100.4 | 674.0 | 451.3 | 507.8 |
| 4:56:36 | 0:12:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.4 | 98.2 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.6 | 114.4 | 75.1 | 73.7 | 100.2 | 674.0 | 451.3 | 506.4 |
| 4:57:36 | 0:13:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 132.5 | 114.3 | 75.0 | 73.7 | 100.2 | 674.0 | 451.3 | 506.4 |
| 4:58:36 | 0:14:01 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 132.5 | 114.2 | 75.0 | 73.7 | 100.3 | 674.0 | 451.3 | 506.4 |
| 4:59:36 | 0:15:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 132.6 | 114.2 | 75.0 | 73.7 | 100.3 | 674.0 | 451.4 | 506.4 |
| 5:00:36 | 0:16:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.4 | 97.4 | 132.4 | 114.1 | 74.9 | 73.7 | 100.2 | 674.0 | 451.3 | 506.3 |
| 5:01:36 | 0:17:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 132.3 | 114.1 | 74.9 | 73.7 | 100.2 | 674.0 | 451.3 | 506.4 |
| 5:02:36 | 0:18:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 132.3 | 114.0 | 74.9 | 73.7 | 100.2 | 674.0 | 451.3 | 506.4 |
| 5:03:36 | 0:19:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.3 | 132.3 | 116.2 | 74.9 | 73.8 | 100.8 | 674.0 | 451.4 | 506.4 |
| 5:04:37 | 0:20:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 101.3 | 113.7 | 132.1 | 116.7 | 74.9 | 73.7 | 100.4 | 674.0 | 451.3 | 506.4 |
| 5:05:37 | 0:21:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 103.1 | 115.9 | 132.0 | 116.5 | 74.9 | 73.7 | 100.5 | 674.0 | 451.3 | 506.4 |
| 5:06:37 | 0:22:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 98.4 | 101.7 | 132.0 | 116.4 | 74.8 | 73.7 | 100.5 | 674.0 | 451.4 | 506.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000111

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5:07:37 | 0:23:02 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 96.9 | 97.2 | 131.9 | 116.3 | 74.7 | 73.7 | 100.5 | 674.0 | 451.3 | 506.4 |
| 5:08:37 | 0:24:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.2 | 132.0 | 116.3 | 74.8 | 73.7 | 100.5 | 674.0 | 451.3 | 506.4 |
| 5:09:37 | 0:25:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.4 | 131.9 | 116.3 | 74.8 | 73.7 | 100.5 | 674.0 | 451.4 | 504.9 |
| 5:10:37 | 0:26:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.6 | 131.8 | 116.2 | 74.8 | 73.6 | 100.5 | 674.0 | 451.4 | 506.4 |
| 5:11:37 | 0:27:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.9 | 97.7 | 131.8 | 116.1 | 74.7 | 73.6 | 100.5 | 674.0 | 451.4 | 506.3 |
| 5:12:37 | 0:28:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 131.6 | 116.1 | 74.8 | 73.6 | 100.5 | 674.0 | 451.3 | 506.3 |
| 5:13:38 | 0:29:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 131.5 | 116.0 | 74.7 | 73.6 | 100.5 | 674.0 | 451.3 | 504.8 |
| 5:14:38 | 0:30:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 131.5 | 116.0 | 74.8 | 73.6 | 100.5 | 674.0 | 451.3 | 504.9 |
| 5:15:38 | 0:31:03 | 26.2 | 26.4 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 131.4 | 115.8 | 74.7 | 73.6 | 100.5 | 674.0 | 451.4 | 504.9 |
| 5:16:38 | 0:32:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.5 | 131.5 | 115.8 | 74.7 | 73.6 | 100.5 | 674.0 | 451.3 | 504.9 |
| 5:17:38 | 0:33:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 131.4 | 115.7 | 74.7 | 73.6 | 100.5 | 674.0 | 451.3 | 504.8 |
| 5:18:38 | 0:34:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.4 | 97.4 | 131.4 | 115.7 | 74.7 | 73.6 | 100.5 | 674.0 | 451.3 | 504.8 |
| 5:19:38 | 0:35:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 131.3 | 115.6 | 74.7 | 73.6 | 100.5 | 674.0 | 451.3 | 504.9 |
| 5:20:38 | 0:36:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.3 | 97.3 | 131.2 | 115.6 | 74.7 | 73.6 | 100.4 | 674.0 | 451.3 | 504.9 |
| 5:21:38 | 0:37:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 131.4 | 115.5 | 74.6 | 73.6 | 100.4 | 674.0 | 451.3 | 504.8 |
| 5:22:38 | 0:38:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 100.3 | 110.4 | 131.3 | 115.4 | 74.6 | 73.5 | 100.3 | 674.0 | 451.4 | 504.8 |
| 5:23:38 | 0:39:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.3 | 98.6 | 103.4 | 131.2 | 115.4 | 74.6 | 73.5 | 100.3 | 674.0 | 451.4 | 504.9 |
| 5:24:39 | 0:40:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.7 | 100.1 | 130.9 | 115.2 | 74.6 | 73.5 | 100.3 | 674.0 | 451.3 | 504.8 |
| 5:25:39 | 0:41:04 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.4 | 99.0 | 131.0 | 115.3 | 74.6 | 73.5 | 100.4 | 674.0 | 451.3 | 504.9 |
| 5:26:39 | 0:42:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.4 | 131.0 | 115.1 | 74.6 | 73.6 | 100.4 | 674.0 | 451.3 | 504.9 |
| 5:27:39 | 0:43:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.3 | 97.0 | 98.2 | 130.8 | 115.1 | 74.6 | 73.5 | 100.3 | 674.0 | 451.3 | 504.8 |
| 5:28:39 | 0:44:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.9 | 98.1 | 130.8 | 115.0 | 74.5 | 73.5 | 100.3 | 674.0 | 451.3 | 504.9 |
| 5:29:39 | 0:45:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.3 | 96.8 | 97.9 | 130.7 | 115.0 | 74.5 | 73.5 | 100.3 | 674.0 | 451.4 | 504.9 |
| 5:30:39 | 0:46:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.5 | 98.2 | 98.3 | 96.7 | 97.8 | 130.6 | 114.9 | 74.5 | 73.5 | 100.3 | 674.0 | 451.3 | 504.9 |
| 5:31:39 | 0:47:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.6 | 130.5 | 114.8 | 74.5 | 73.5 | 100.3 | 674.0 | 451.4 | 504.9 |
| 5:32:40 | 0:48:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.6 | 130.5 | 114.8 | 74.5 | 73.5 | 100.2 | 674.0 | 451.3 | 504.8 |
| 5:33:40 | 0:49:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.5 | 97.5 | 130.3 | 114.7 | 74.5 | 73.5 | 100.3 | 674.0 | 451.3 | 504.8 |
| 5:34:40 | 0:50:05 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.4 | 130.3 | 114.6 | 74.4 | 73.5 | 100.2 | 674.0 | 451.4 | 504.8 |
| 5:35:40 | 0:51:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.9 | 130.2 | 114.6 | 74.4 | 73.5 | 100.2 | 674.0 | 451.4 | 504.9 |
| 5:36:40 | 0:52:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 99.9 | 107.5 | 130.3 | 114.5 | 74.5 | 73.5 | 100.2 | 674.0 | 451.4 | 503.4 |
| 5:37:40 | 0:53:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.3 | 98.1 | 101.7 | 130.2 | 114.5 | 74.5 | 73.4 | 100.2 | 674.0 | 451.3 | 503.4 |
| 5:38:40 | 0:54:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.5 | 99.5 | 130.2 | 114.4 | 74.4 | 73.4 | 100.1 | 674.0 | 451.3 | 503.3 |
| 5:39:40 | 0:55:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.3 | 98.8 | 130.1 | 114.4 | 74.5 | 73.4 | 100.2 | 674.0 | 451.3 | 503.3 |
| 5:40:40 | 0:56:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.3 | 97.1 | 98.3 | 130.0 | 114.3 | 74.4 | 73.4 | 100.2 | 674.0 | 451.4 | 503.4 |
| 5:41:41 | 0:57:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.3 | 97.0 | 98.1 | 130.0 | 114.2 | 74.4 | 73.4 | 100.2 | 674.0 | 451.3 | 503.4 |
| 5:42:41 | 0:58:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.4 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.8 | 97.9 | 129.9 | 114.1 | 74.4 | 73.4 | 100.2 | 674.0 | 451.4 | 503.4 |
| 5:43:41 | 0:59:06 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.7 | 97.8 | 129.9 | 114.1 | 74.4 | 73.5 | 100.1 | 674.0 | 451.3 | 503.4 |
| 5:44:41 | 1:00:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.7 | 97.7 | 129.8 | 114.1 | 74.4 | 73.4 | 100.1 | 674.0 | 451.3 | 503.6 |
| 5:45:41 | 1:01:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.6 | 97.6 | 129.8 | 114.0 | 74.4 | 73.5 | 100.2 | 674.0 | 451.4 | 503.3 |
| 5:46:41 | 1:02:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.5 | 129.8 | 116.3 | 74.4 | 73.4 | 100.7 | 674.0 | 451.4 | 503.4 |
| 5:47:41 | 1:03:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.3 | 101.0 | 112.8 | 129.7 | 116.7 | 74.3 | 73.5 | 100.4 | 674.0 | 451.3 | 503.3 |
| 5:48:41 | 1:04:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 103.8 | 118.0 | 129.7 | 116.7 | 74.4 | 73.5 | 100.5 | 674.0 | 451.3 | 503.4 |
| 5:49:41 | 1:05:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 98.9 | 102.8 | 129.6 | 116.7 | 74.3 | 73.5 | 100.5 | 674.0 | 451.3 | 503.3 |
| 5:50:42 | 1:06:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 98.8 | 98.5 | 98.5 | 97.1 | 97.3 | 129.5 | 116.7 | 74.4 | 73.4 | 100.5 | 674.0 | 451.3 | 503.4 |
| 5:51:42 | 1:07:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 129.5 | 116.5 | 74.4 | 73.4 | 100.4 | 674.0 | 451.3 | 501.8 |
| 5:52:42 | 1:08:07 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.4 | 129.5 | 116.4 | 74.4 | 73.5 | 100.5 | 674.0 | 451.3 | 503.4 |
| 5:53:42 | 1:09:08 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.1 | 97.7 | 129.4 | 116.3 | 74.4 | 73.5 | 100.5 | 674.0 | 451.3 | 501.8 |
| 5:54:42 | 1:10:08 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 129.3 | 116.3 | 74.4 | 73.5 | 100.5 | 674.0 | 451.3 | 501.8 |
| 5:55:42 | 1:11:08 | 26.2 | 26.3 | 30.1 | 50.4 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 129.2 | 116.2 | 74.3 | 73.5 | 100.5 | 674.0 | 451.4 | 501.8 |
| 5:56:42 | 1:12:08 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 129.1 | 116.1 | 74.4 | 73.5 | 100.5 | 674.0 | 451.4 | 501.9 |
| 5:57:42 | 1:13:08 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 133.5 | 116.1 | 74.3 | 73.5 | 100.5 | 674.0 | 451.3 | 501.8 |
| 5:58:42 | 1:14:08 | 26.2 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 133.6 | 116.0 | 74.3 | 73.5 | 100.5 | 674.0 | 451.4 | 501.9 |
| 5:59:43 | 1:15:08 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 133.2 | 116.0 | 74.4 | 73.4 | 100.5 | 674.0 | 451.4 | 501.8 |
| 6:00:43 | 1:16:08 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 133.1 | 115.9 | 74.3 | 73.4 | 100.5 | 674.0 | 451.4 | 501.8 |
| 6:01:43 | 1:17:08 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.3 | 98.1 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.4 | 133.1 | 115.8 | 74.3 | 73.4 | 100.5 | 674.0 | 451.4 | 501.8 |
| 6:02:43 | 1:18:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 133.2 | 115.7 | 74.3 | 73.4 | 100.4 | 674.0 | 451.4 | 501.9 |
| 6:03:43 | 1:19:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 133.0 | 115.7 | 74.3 | 73.4 | 100.4 | 674.0 | 451.4 | 501.9 |
| 6:04:43 | 1:20:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 133.1 | 115.7 | 74.3 | 73.4 | 100.3 | 674.0 | 451.4 | 501.9 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000112

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:05:43 | 1:21:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 100.7 | 111.9 | 132.9 | 115.6 | 74.3 | 73.3 | 100.3 | 674.0 | 451.4 | 501.8 |
| 6:06:43 | 1:22:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.4 | 104.3 | 120.0 | 132.9 | 115.5 | 74.3 | 73.3 | 100.4 | 674.0 | 451.4 | 501.8 |
| 6:07:43 | 1:23:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.5 | 99.2 | 103.9 | 132.9 | 115.5 | 74.3 | 73.3 | 100.5 | 674.0 | 451.4 | 501.8 |
| 6:08:43 | 1:24:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.4 | 132.8 | 115.3 | 74.2 | 73.3 | 100.4 | 674.0 | 451.3 | 501.9 |
| 6:09:44 | 1:25:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 97.1 | 97.0 | 132.6 | 115.3 | 74.3 | 73.3 | 100.4 | 674.0 | 451.4 | 501.8 |
| 6:10:44 | 1:26:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.4 | 132.5 | 115.3 | 74.3 | 73.3 | 100.4 | 674.0 | 451.4 | 498.8 |
| 6:11:44 | 1:27:09 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.7 | 132.4 | 115.2 | 74.3 | 73.3 | 100.4 | 674.0 | 451.3 | 498.8 |
| 6:12:44 | 1:28:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 132.4 | 115.1 | 74.3 | 73.4 | 100.4 | 674.0 | 451.4 | 498.8 |
| 6:13:44 | 1:29:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 132.4 | 115.1 | 74.3 | 73.5 | 100.4 | 674.0 | 451.3 | 498.9 |
| 6:14:44 | 1:30:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.9 | 97.7 | 132.4 | 115.0 | 74.3 | 73.5 | 100.5 | 674.0 | 451.4 | 498.8 |
| 6:15:44 | 1:31:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.8 | 97.7 | 132.3 | 115.0 | 74.3 | 73.5 | 100.4 | 674.0 | 451.4 | 498.8 |
| 6:16:44 | 1:32:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.2 | 114.9 | 74.3 | 73.5 | 100.4 | 674.0 | 451.4 | 498.8 |
| 6:17:44 | 1:33:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 132.1 | 114.8 | 74.3 | 73.5 | 100.3 | 674.0 | 451.4 | 498.8 |
| 6:18:44 | 1:34:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.6 | 97.5 | 132.1 | 114.7 | 74.3 | 73.6 | 100.4 | 674.0 | 451.4 | 498.8 |
| 6:19:45 | 1:35:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 132.1 | 114.7 | 74.3 | 73.6 | 100.4 | 674.0 | 451.4 | 498.9 |
| 6:20:45 | 1:36:10 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 132.0 | 114.6 | 74.3 | 73.6 | 100.3 | 674.0 | 451.4 | 498.8 |
| 6:21:45 | 1:37:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.4 | 97.4 | 132.0 | 114.5 | 74.3 | 73.6 | 100.3 | 674.0 | 451.3 | 498.8 |
| 6:22:45 | 1:38:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 131.8 | 114.5 | 74.3 | 73.6 | 100.3 | 674.0 | 451.3 | 498.9 |
| 6:23:45 | 1:39:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 131.8 | 114.4 | 74.3 | 73.6 | 100.3 | 674.0 | 451.3 | 498.8 |
| 6:24:45 | 1:40:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 97.9 | 98.1 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 99.3 | 108.3 | 131.8 | 114.4 | 74.4 | 73.7 | 100.3 | 674.0 | 451.3 | 498.9 |
| 6:25:45 | 1:41:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 99.0 | 104.7 | 131.8 | 114.2 | 74.3 | 73.6 | 100.3 | 674.0 | 451.4 | 497.4 |
| 6:26:45 | 1:42:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.9 | 100.6 | 131.7 | 114.2 | 74.3 | 73.6 | 100.3 | 674.0 | 451.4 | 498.8 |
| 6:27:45 | 1:43:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.4 | 99.2 | 131.7 | 114.1 | 74.3 | 73.6 | 100.3 | 674.0 | 451.3 | 497.3 |
| 6:28:46 | 1:44:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.6 | 131.6 | 114.1 | 74.3 | 73.6 | 100.3 | 674.0 | 451.4 | 497.3 |
| 6:29:46 | 1:45:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.1 | 98.3 | 131.5 | 114.0 | 74.3 | 73.6 | 100.3 | 674.0 | 451.4 | 497.3 |
| 6:30:46 | 1:46:11 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 97.0 | 98.1 | 131.4 | 114.0 | 74.3 | 73.6 | 100.2 | 674.0 | 451.4 | 497.3 |
| 6:31:46 | 1:47:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.9 | 97.9 | 131.4 | 115.0 | 74.3 | 73.5 | 100.8 | 674.0 | 451.4 | 497.0 |
| 6:32:46 | 1:48:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.3 | 98.3 | 96.8 | 97.8 | 131.3 | 116.7 | 74.4 | 73.5 | 100.5 | 674.0 | 451.3 | 497.4 |
| 6:33:46 | 1:49:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.6 | 97.7 | 131.3 | 116.7 | 74.3 | 73.5 | 100.5 | 674.0 | 451.3 | 497.3 |
| 6:34:46 | 1:50:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 96.5 | 97.6 | 131.3 | 116.5 | 74.3 | 73.5 | 100.4 | 674.0 | 451.4 | 497.4 |
| 6:35:46 | 1:51:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.2 | 96.5 | 97.5 | 131.3 | 116.5 | 74.3 | 73.5 | 100.5 | 674.0 | 451.4 | 497.3 |
| 6:36:46 | 1:52:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.6 | 99.8 | 131.2 | 116.4 | 74.3 | 73.4 | 100.4 | 674.0 | 451.4 | 497.3 |
| 6:37:46 | 1:53:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 100.9 | 110.2 | 131.1 | 116.4 | 74.2 | 73.4 | 100.5 | 674.0 | 451.3 | 497.3 |
| 6:38:47 | 1:54:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.3 | 98.4 | 98.0 | 101.1 | 131.0 | 116.3 | 74.2 | 73.3 | 100.5 | 674.0 | 451.3 | 497.3 |
| 6:39:47 | 1:55:12 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.3 | 131.0 | 116.2 | 74.2 | 73.4 | 100.6 | 674.0 | 451.4 | 497.3 |
| 6:40:47 | 1:56:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.2 | 130.9 | 116.2 | 74.3 | 73.3 | 100.5 | 674.0 | 451.3 | 497.4 |
| 6:41:47 | 1:57:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.3 | 96.7 | 97.3 | 130.9 | 116.2 | 74.3 | 73.4 | 100.6 | 674.0 | 451.3 | 497.3 |
| 6:42:47 | 1:58:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.3 | 130.8 | 116.0 | 74.2 | 73.3 | 100.5 | 674.0 | 451.4 | 497.3 |
| 6:43:47 | 1:59:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.3 | 130.7 | 116.0 | 74.2 | 73.3 | 100.5 | 674.0 | 451.3 | 497.3 |
| 6:44:47 | 2:00:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 130.7 | 115.9 | 74.2 | 73.3 | 100.5 | 674.0 | 451.3 | 497.3 |
| 6:45:47 | 2:01:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 130.6 | 115.9 | 74.3 | 73.3 | 100.4 | 674.0 | 451.3 | 497.3 |
| 6:46:47 | 2:02:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 100.5 | 111.5 | 130.5 | 115.7 | 74.2 | 73.3 | 100.4 | 674.0 | 451.3 | 497.3 |
| 6:47:48 | 2:03:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 104.6 | 121.5 | 130.4 | 115.7 | 74.2 | 73.3 | 100.5 | 674.0 | 451.4 | 497.3 |
| 6:48:48 | 2:04:13 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 99.7 | 105.1 | 130.4 | 115.7 | 74.3 | 73.3 | 100.6 | 674.0 | 451.3 | 497.3 |
| 6:49:48 | 2:05:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.6 | 97.1 | 97.0 | 130.2 | 115.5 | 74.2 | 73.3 | 100.5 | 674.0 | 451.3 | 497.4 |
| 6:50:48 | 2:06:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.4 | 130.3 | 115.5 | 74.3 | 73.3 | 100.5 | 674.0 | 451.4 | 495.8 |
| 6:51:48 | 2:07:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.6 | 130.3 | 115.3 | 74.1 | 73.3 | 100.5 | 674.0 | 451.3 | 495.8 |
| 6:52:48 | 2:08:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.7 | 130.3 | 115.3 | 74.2 | 73.5 | 100.5 | 674.0 | 451.4 | 495.8 |
| 6:53:48 | 2:09:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 130.3 | 115.2 | 74.2 | 73.4 | 100.5 | 674.0 | 451.3 | 495.8 |
| 6:54:48 | 2:10:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 130.1 | 115.1 | 74.2 | 73.4 | 100.4 | 674.0 | 451.4 | 495.8 |
| 6:55:48 | 2:11:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 130.0 | 115.1 | 74.2 | 73.4 | 100.4 | 674.0 | 451.3 | 495.8 |
| 6:56:49 | 2:12:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 130.0 | 115.1 | 74.2 | 73.5 | 100.5 | 674.0 | 451.4 | 495.8 |
| 6:57:49 | 2:13:14 | 26.1 | 26.3 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.5 | 98.3 | 98.4 | 96.7 | 97.6 | 129.9 | 115.0 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 495.8 |
| 6:58:49 | 2:14:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 129.8 | 114.9 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 495.8 |
| 6:59:49 | 2:15:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 129.9 | 114.9 | 74.2 | 73.5 | 100.4 | 674.0 | 451.3 | 495.8 |
| 7:00:49 | 2:16:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 129.8 | 114.8 | 74.2 | 73.5 | 100.4 | 674.0 | 451.3 | 495.8 |
| 7:01:49 | 2:17:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 129.7 | 114.8 | 74.2 | 73.5 | 100.3 | 674.0 | 451.3 | 495.8 |
| 7:02:49 | 2:18:15 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 129.7 | 114.8 | 74.2 | 73.5 | 100.3 | 674.0 | 451.3 | 495.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000113

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7:03:49 | 2:19:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 129.6 | 114.7 | 74.2 | 73.5 | 100.3 | 674.0 | 451.3 | 495.9 |
| 7:04:49 | 2:20:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.3 | 129.6 | 114.6 | 74.2 | 73.5 | 100.3 | 674.0 | 451.3 | 495.8 |
| 7:05:50 | 2:21:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 100.4 | 110.1 | 129.6 | 114.5 | 74.1 | 73.5 | 100.3 | 674.0 | 451.3 | 495.8 |
| 7:06:50 | 2:22:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.2 | 98.3 | 98.5 | 103.0 | 129.5 | 114.5 | 74.2 | 73.5 | 100.3 | 674.0 | 451.3 | 495.7 |
| 7:07:50 | 2:23:15 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.6 | 100.0 | 129.4 | 114.4 | 74.1 | 73.5 | 100.3 | 674.0 | 451.3 | 495.9 |
| 7:08:50 | 2:24:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.3 | 98.9 | 129.5 | 114.4 | 74.2 | 73.5 | 100.3 | 674.0 | 451.4 | 495.8 |
| 7:09:50 | 2:25:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.2 | 98.3 | 97.1 | 98.4 | 129.3 | 114.3 | 74.1 | 73.4 | 100.3 | 674.0 | 451.3 | 495.8 |
| 7:10:50 | 2:26:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 97.0 | 98.1 | 129.3 | 114.2 | 74.1 | 73.4 | 100.3 | 674.0 | 451.3 | 495.7 |
| 7:11:50 | 2:27:16 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.9 | 97.9 | 129.2 | 114.1 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 495.8 |
| 7:12:50 | 2:28:16 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.8 | 97.8 | 129.2 | 114.1 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 495.9 |
| 7:13:51 | 2:29:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.3 | 98.3 | 96.7 | 97.7 | 129.2 | 114.0 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 495.8 |
| 7:14:51 | 2:30:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.6 | 129.3 | 113.9 | 74.0 | 73.5 | 100.2 | 674.0 | 451.3 | 495.9 |
| 7:15:51 | 2:31:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.2 | 96.5 | 97.5 | 133.5 | 116.7 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 495.8 |
| 7:16:51 | 2:32:16 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.1 | 97.9 | 97.6 | 98.4 | 98.2 | 98.3 | 96.4 | 97.9 | 133.2 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 495.8 |
| 7:17:51 | 2:33:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 102.8 | 117.7 | 133.0 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 495.8 |
| 7:18:51 | 2:34:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 102.5 | 113.7 | 133.2 | 116.7 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 495.9 |
| 7:19:51 | 2:35:17 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.5 | 98.5 | 101.2 | 133.2 | 116.7 | 74.1 | 73.5 | 100.7 | 674.0 | 451.3 | 495.8 |
| 7:20:51 | 2:36:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 97.1 | 97.0 | 133.0 | 116.4 | 74.1 | 73.4 | 100.6 | 674.0 | 451.4 | 495.8 |
| 7:21:51 | 2:37:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 133.1 | 116.3 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 495.9 |
| 7:22:52 | 2:38:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.5 | 132.9 | 116.3 | 74.1 | 73.5 | 100.6 | 674.0 | 451.4 | 495.8 |
| 7:23:52 | 2:39:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.3 | 98.4 | 97.1 | 97.7 | 132.9 | 116.2 | 74.1 | 73.5 | 100.6 | 674.0 | 451.4 | 495.8 |
| 7:24:52 | 2:40:17 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.1 | 97.8 | 132.8 | 116.2 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 495.8 |
| 7:25:52 | 2:41:18 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 132.7 | 116.1 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 495.8 |
| 7:26:52 | 2:42:18 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 132.6 | 116.0 | 74.1 | 73.6 | 100.6 | 674.0 | 451.4 | 495.8 |
| 7:27:52 | 2:43:18 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 96.9 | 97.7 | 132.6 | 116.0 | 74.1 | 73.6 | 100.6 | 674.0 | 451.3 | 494.3 |
| 7:28:52 | 2:44:18 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.5 | 115.9 | 74.1 | 73.6 | 100.6 | 674.0 | 451.3 | 495.8 |
| 7:29:52 | 2:45:18 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.5 | 115.8 | 74.2 | 73.7 | 100.6 | 674.0 | 451.3 | 495.8 |
| 7:30:52 | 2:46:18 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.6 | 97.5 | 132.5 | 115.7 | 74.1 | 73.6 | 100.5 | 674.0 | 451.3 | 494.4 |
| 7:31:53 | 2:47:18 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 132.4 | 115.7 | 74.1 | 73.6 | 100.5 | 674.0 | 451.4 | 495.8 |
| 7:32:53 | 2:48:18 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 132.4 | 115.6 | 74.1 | 73.7 | 100.5 | 674.0 | 451.3 | 494.3 |
| 7:33:53 | 2:49:19 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 96.4 | 97.3 | 132.3 | 115.5 | 74.1 | 73.6 | 100.4 | 674.0 | 451.3 | 495.8 |
| 7:34:53 | 2:50:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 96.3 | 97.3 | 132.2 | 115.5 | 74.1 | 73.6 | 100.5 | 674.0 | 451.3 | 494.3 |
| 7:35:53 | 2:51:19 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 102.0 | 115.6 | 132.1 | 115.4 | 74.1 | 73.6 | 100.6 | 674.0 | 451.4 | 494.3 |
| 7:36:53 | 2:52:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.4 | 98.4 | 103.0 | 115.3 | 132.0 | 115.3 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 494.3 |
| 7:37:53 | 2:53:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 98.5 | 101.7 | 132.0 | 115.2 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 494.3 |
| 7:38:53 | 2:54:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 132.0 | 115.2 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 494.3 |
| 7:39:53 | 2:55:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 97.0 | 97.2 | 132.0 | 115.1 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 494.3 |
| 7:40:54 | 2:56:19 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.1 | 97.4 | 131.9 | 115.1 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 494.4 |
| 7:41:54 | 2:57:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.6 | 131.8 | 115.0 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 494.3 |
| 7:42:54 | 2:58:19 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.0 | 97.7 | 131.8 | 114.9 | 74.0 | 73.3 | 100.4 | 674.0 | 451.4 | 494.3 |
| 7:43:54 | 2:59:20 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.7 | 131.8 | 114.9 | 74.0 | 73.4 | 100.5 | 674.0 | 451.4 | 494.3 |
| 7:44:54 | 3:00:20 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 131.6 | 114.8 | 74.0 | 73.3 | 100.4 | 674.0 | 451.3 | 494.3 |
| 7:45:54 | 3:01:20 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.6 | 131.5 | 114.8 | 74.0 | 73.3 | 100.4 | 674.0 | 451.4 | 494.3 |
| 7:46:54 | 3:02:20 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 131.5 | 114.7 | 74.0 | 73.3 | 100.3 | 674.0 | 451.4 | 494.3 |
| 7:47:54 | 3:03:20 | 26.1 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 131.5 | 114.7 | 74.0 | 73.3 | 100.4 | 674.0 | 451.3 | 494.2 |
| 7:48:54 | 3:04:20 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.5 | 131.4 | 114.6 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 494.3 |
| 7:49:54 | 3:05:20 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 131.4 | 114.5 | 74.0 | 73.3 | 100.3 | 674.0 | 451.3 | 494.2 |
| 7:50:55 | 3:06:20 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 131.3 | 114.5 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 494.3 |
| 7:51:55 | 3:07:20 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 131.3 | 114.4 | 74.0 | 73.3 | 100.3 | 674.0 | 451.4 | 494.4 |
| 7:52:55 | 3:08:21 | 26.0 | 26.2 | 30.1 | 50.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 101.6 | 114.3 | 131.2 | 114.3 | 74.0 | 73.2 | 100.2 | 674.0 | 451.3 | 494.3 |
| 7:53:55 | 3:09:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 103.0 | 115.4 | 131.2 | 114.3 | 74.0 | 73.3 | 100.3 | 674.0 | 451.4 | 494.3 |
| 7:54:55 | 3:10:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 98.5 | 101.8 | 131.1 | 114.2 | 74.0 | 73.2 | 100.3 | 674.0 | 451.4 | 494.3 |
| 7:55:55 | 3:11:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 131.0 | 114.1 | 74.0 | 73.3 | 100.3 | 674.0 | 451.3 | 494.3 |
| 7:56:55 | 3:12:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.0 | 97.2 | 130.8 | 114.1 | 74.0 | 73.2 | 100.2 | 674.0 | 451.4 | 494.4 |
| 7:57:55 | 3:13:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.5 | 130.8 | 114.1 | 74.1 | 73.3 | 100.2 | 674.0 | 451.3 | 494.3 |
| 7:58:55 | 3:14:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.6 | 130.8 | 115.8 | 74.0 | 73.3 | 101.0 | 674.0 | 451.3 | 494.3 |
| 7:59:56 | 3:15:21 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 130.7 | 116.7 | 74.0 | 73.3 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:00:56 | 3:16:21 | 26.0 | 26.2 | 30.1 | 50.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 130.7 | 116.7 | 74.0 | 73.3 | 100.5 | 674.0 | 451.4 | 494.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000114

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8:01:56 | 3:17:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 130.7 | 116.7 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 492.9 |
| 8:02:56 | 3:18:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 130.6 | 116.7 | 74.0 | 73.4 | 100.6 | 674.0 | 451.4 | 492.8 |
| 8:03:56 | 3:19:22 | 26.1 | 26.2 | 30.1 | 50.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 130.5 | 116.5 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:04:56 | 3:20:22 | 26.0 | 26.2 | 30.1 | 50.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.5 | 130.4 | 116.4 | 74.0 | 73.4 | 100.4 | 674.0 | 451.3 | 492.8 |
| 8:05:56 | 3:21:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 130.3 | 116.4 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 492.8 |
| 8:06:57 | 3:22:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 130.3 | 116.3 | 74.0 | 73.4 | 100.5 | 674.0 | 451.4 | 492.9 |
| 8:07:57 | 3:23:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 130.3 | 116.3 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:08:57 | 3:24:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 98.7 | 106.5 | 130.2 | 116.2 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 492.8 |
| 8:09:57 | 3:25:22 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.3 | 98.4 | 104.1 | 121.0 | 130.2 | 116.1 | 74.0 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:10:57 | 3:26:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 100.0 | 106.5 | 130.1 | 116.1 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 492.8 |
| 8:11:57 | 3:27:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.5 | 97.4 | 98.2 | 130.0 | 116.0 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:12:57 | 3:28:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.0 | 130.1 | 115.9 | 74.0 | 73.5 | 100.6 | 674.0 | 451.3 | 492.8 |
| 8:13:57 | 3:29:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 130.1 | 115.8 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 492.8 |
| 8:14:57 | 3:30:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.1 | 97.6 | 130.0 | 115.8 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 492.9 |
| 8:15:58 | 3:31:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.1 | 97.8 | 129.9 | 115.8 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:16:58 | 3:32:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 129.8 | 115.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:17:58 | 3:33:23 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 129.7 | 115.6 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 492.8 |
| 8:18:58 | 3:34:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.9 | 97.8 | 129.9 | 115.5 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 492.8 |
| 8:19:58 | 3:35:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 129.7 | 115.4 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 492.8 |
| 8:20:58 | 3:36:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.6 | 115.4 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 492.8 |
| 8:21:58 | 3:37:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 129.5 | 115.3 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 492.7 |
| 8:22:58 | 3:38:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.6 | 129.5 | 115.3 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:23:58 | 3:39:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.4 | 129.5 | 115.2 | 74.2 | 73.5 | 100.5 | 674.0 | 451.4 | 492.8 |
| 8:24:58 | 3:40:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.4 | 97.4 | 129.4 | 115.1 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 492.8 |
| 8:25:59 | 3:41:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 129.4 | 115.0 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:26:59 | 3:42:24 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.1 | 98.3 | 96.3 | 97.3 | 129.4 | 115.0 | 74.2 | 73.6 | 100.4 | 674.0 | 451.4 | 492.8 |
| 8:27:59 | 3:43:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 96.2 | 97.2 | 129.4 | 114.9 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 491.3 |
| 8:28:59 | 3:44:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 101.3 | 114.0 | 129.3 | 114.9 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 492.8 |
| 8:29:59 | 3:45:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 104.3 | 120.3 | 129.2 | 114.8 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 491.3 |
| 8:30:59 | 3:46:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 99.2 | 104.0 | 129.2 | 114.7 | 74.2 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:31:59 | 3:47:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.4 | 129.1 | 114.7 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 492.8 |
| 8:32:59 | 3:48:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.0 | 129.1 | 114.6 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 492.8 |
| 8:33:59 | 3:49:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 133.6 | 114.5 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 491.3 |
| 8:34:59 | 3:50:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.6 | 133.6 | 114.5 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 491.3 |
| 8:36:00 | 3:51:25 | 26.0 | 26.2 | 30.1 | 50.5 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.7 | 133.5 | 114.5 | 74.1 | 73.4 | 100.3 | 674.0 | 451.3 | 491.3 |
| 8:37:00 | 3:52:25 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 133.5 | 114.4 | 74.2 | 73.4 | 100.4 | 674.0 | 451.3 | 491.2 |
| 8:38:00 | 3:53:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.9 | 97.8 | 133.4 | 114.3 | 74.1 | 73.3 | 100.3 | 674.0 | 451.4 | 491.3 |
| 8:39:00 | 3:54:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 133.3 | 114.2 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 491.2 |
| 8:40:00 | 3:55:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 133.3 | 114.2 | 74.1 | 73.3 | 100.3 | 674.0 | 451.4 | 491.4 |
| 8:41:00 | 3:56:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 133.4 | 114.1 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 491.3 |
| 8:42:00 | 3:57:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.3 | 98.4 | 96.6 | 97.6 | 133.3 | 114.1 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 490.9 |
| 8:43:00 | 3:58:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 133.2 | 114.0 | 74.1 | 73.3 | 100.2 | 674.0 | 451.3 | 491.3 |
| 8:44:01 | 3:59:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 133.1 | 114.5 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 491.2 |
| 8:45:01 | 4:00:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.3 | 98.4 | 96.4 | 97.4 | 133.1 | 116.7 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 491.3 |
| 8:46:01 | 4:01:26 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 133.0 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 491.3 |
| 8:47:01 | 4:02:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.3 | 133.0 | 116.7 | 74.1 | 73.3 | 100.4 | 674.0 | 451.3 | 491.3 |
| 8:48:01 | 4:03:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 132.8 | 116.7 | 74.1 | 73.3 | 100.4 | 674.0 | 451.4 | 491.3 |
| 8:49:01 | 4:04:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 98.2 | 105.3 | 132.8 | 116.5 | 74.2 | 73.4 | 100.4 | 674.0 | 451.3 | 491.3 |
| 8:50:01 | 4:05:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.4 | 98.0 | 97.7 | 98.6 | 98.3 | 98.4 | 103.8 | 120.5 | 132.8 | 116.4 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 491.4 |
| 8:51:01 | 4:06:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 101.2 | 110.1 | 132.8 | 116.3 | 74.1 | 73.4 | 100.6 | 674.0 | 451.4 | 491.3 |
| 8:52:01 | 4:07:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.5 | 97.9 | 99.7 | 132.8 | 116.3 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 491.4 |
| 8:53:01 | 4:08:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 97.1 | 97.0 | 132.8 | 116.2 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 491.3 |
| 8:54:02 | 4:09:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 132.6 | 116.1 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 491.3 |
| 8:55:02 | 4:10:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.6 | 132.6 | 116.1 | 74.1 | 73.3 | 100.6 | 674.0 | 451.3 | 491.3 |
| 8:56:02 | 4:11:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.7 | 132.6 | 116.0 | 74.1 | 73.4 | 100.6 | 674.0 | 451.4 | 491.3 |
| 8:57:02 | 4:12:27 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 132.6 | 116.0 | 74.1 | 73.3 | 100.6 | 674.0 | 451.3 | 491.3 |
| 8:58:02 | 4:13:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 132.4 | 115.9 | 74.1 | 73.3 | 100.6 | 674.0 | 451.3 | 491.3 |
| 8:59:02 | 4:14:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 132.4 | 115.9 | 74.2 | 73.3 | 100.4 | 674.0 | 451.4 | 489.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000115

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:00:02 | 4:15:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 132.2 | 115.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 489.8 |
| 9:01:02 | 4:16:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 132.1 | 115.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 489.8 |
| 9:02:02 | 4:17:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.6 | 132.2 | 115.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 489.8 |
| 9:03:02 | 4:18:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 132.1 | 115.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 489.8 |
| 9:04:03 | 4:19:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 131.9 | 115.5 | 74.2 | 73.4 | 100.5 | 674.0 | 451.4 | 489.8 |
| 9:05:03 | 4:20:28 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 131.8 | 115.4 | 74.1 | 73.3 | 100.4 | 674.0 | 451.3 | 489.3 |
| 9:06:03 | 4:21:28 | 26.0 | 26.2 | 30.1 | 50.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 131.9 | 115.4 | 74.2 | 73.4 | 100.4 | 674.0 | 451.4 | 489.8 |
| 9:07:03 | 4:22:29 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 131.8 | 115.3 | 74.1 | 73.4 | 100.3 | 674.0 | 451.3 | 489.8 |
| 9:08:03 | 4:23:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.1 | 98.2 | 96.2 | 97.2 | 131.9 | 115.2 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 489.8 |
| 9:09:03 | 4:24:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 97.2 | 102.3 | 131.7 | 115.1 | 74.1 | 73.3 | 100.3 | 674.0 | 451.4 | 489.7 |
| 9:10:03 | 4:25:29 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 103.4 | 119.5 | 131.5 | 115.1 | 74.1 | 73.3 | 100.4 | 674.0 | 451.3 | 489.8 |
| 9:11:03 | 4:26:29 | 26.0 | 26.2 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 101.2 | 110.0 | 131.6 | 115.1 | 74.1 | 73.3 | 100.4 | 674.0 | 451.3 | 489.7 |
| 9:12:03 | 4:27:29 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.8 | 99.5 | 131.6 | 115.0 | 74.1 | 73.3 | 100.5 | 674.0 | 451.3 | 489.8 |
| 9:13:03 | 4:28:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.0 | 131.5 | 114.9 | 74.1 | 73.3 | 100.5 | 674.0 | 451.4 | 489.7 |
| 9:14:04 | 4:29:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.0 | 97.2 | 131.5 | 114.8 | 74.0 | 73.3 | 100.4 | 674.0 | 451.3 | 489.8 |
| 9:15:04 | 4:30:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.5 | 131.4 | 114.8 | 74.1 | 73.3 | 100.4 | 674.0 | 451.4 | 489.7 |
| 9:16:04 | 4:31:29 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 131.3 | 114.7 | 74.1 | 73.3 | 100.3 | 674.0 | 451.4 | 489.8 |
| 9:17:04 | 4:32:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.9 | 97.7 | 131.2 | 114.7 | 74.1 | 73.3 | 100.4 | 674.0 | 451.4 | 489.8 |
| 9:18:04 | 4:33:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.6 | 98.3 | 98.5 | 96.9 | 97.7 | 131.2 | 114.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 489.8 |
| 9:19:04 | 4:34:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 131.1 | 114.5 | 74.1 | 73.3 | 100.3 | 674.0 | 451.4 | 489.8 |
| 9:20:04 | 4:35:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 131.1 | 114.5 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 489.8 |
| 9:21:04 | 4:36:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 131.0 | 114.4 | 74.1 | 73.3 | 100.3 | 674.0 | 451.3 | 489.8 |
| 9:22:04 | 4:37:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 131.1 | 114.4 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 489.8 |
| 9:23:04 | 4:38:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 131.0 | 114.3 | 74.1 | 73.4 | 100.3 | 674.0 | 451.3 | 489.8 |
| 9:24:05 | 4:39:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.4 | 130.9 | 114.2 | 74.1 | 73.4 | 100.2 | 674.0 | 451.3 | 489.8 |
| 9:25:05 | 4:40:30 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 130.8 | 114.1 | 74.1 | 73.4 | 100.2 | 674.0 | 451.4 | 489.7 |
| 9:26:05 | 4:41:30 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 130.7 | 114.2 | 74.2 | 73.4 | 100.2 | 674.0 | 451.3 | 488.3 |
| 9:27:05 | 4:42:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 130.7 | 114.0 | 74.1 | 73.3 | 100.1 | 674.0 | 451.4 | 489.7 |
| 9:28:05 | 4:43:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.4 | 130.6 | 114.0 | 74.1 | 73.4 | 100.2 | 674.0 | 451.3 | 488.3 |
| 9:29:05 | 4:44:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.6 | 98.3 | 98.4 | 102.5 | 117.1 | 130.6 | 114.9 | 74.1 | 73.4 | 100.7 | 674.0 | 451.3 | 489.8 |
| 9:30:05 | 4:45:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 103.0 | 115.5 | 130.6 | 116.7 | 74.1 | 73.4 | 100.6 | 674.0 | 451.4 | 488.3 |
| 9:31:05 | 4:46:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 98.6 | 101.8 | 130.5 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 488.2 |
| 9:32:05 | 4:47:31 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 130.3 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:33:06 | 4:48:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 130.3 | 116.5 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:34:06 | 4:49:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 97.5 | 130.3 | 116.5 | 74.2 | 73.4 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:35:06 | 4:50:31 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.7 | 130.2 | 116.3 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:36:06 | 4:51:32 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 130.1 | 116.3 | 74.1 | 73.5 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:37:06 | 4:52:32 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.4 | 98.5 | 97.0 | 97.8 | 130.0 | 116.3 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:38:06 | 4:53:32 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 129.9 | 116.2 | 74.1 | 73.3 | 100.4 | 674.0 | 451.4 | 488.3 |
| 9:39:06 | 4:54:32 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 129.9 | 116.1 | 74.1 | 73.3 | 100.5 | 674.0 | 451.4 | 488.2 |
| 9:40:06 | 4:55:32 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.9 | 116.0 | 74.1 | 73.3 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:41:06 | 4:56:32 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.9 | 116.0 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:42:07 | 4:57:32 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 129.9 | 115.9 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 488.3 |
| 9:43:07 | 4:58:32 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 129.8 | 115.8 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:44:07 | 4:59:32 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 129.7 | 115.8 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:45:07 | 5:00:33 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.4 | 97.4 | 129.7 | 115.8 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:46:07 | 5:01:33 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.3 | 97.3 | 129.8 | 115.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:47:07 | 5:02:33 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.3 | 97.3 | 129.6 | 115.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 488.3 |
| 9:48:07 | 5:03:33 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 129.6 | 115.5 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 488.3 |
| 9:49:07 | 5:04:33 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.1 | 97.2 | 129.6 | 115.4 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 486.8 |
| 9:50:07 | 5:05:33 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 100.2 | 111.1 | 129.5 | 115.4 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 486.8 |
| 9:51:08 | 5:06:33 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.5 | 98.2 | 98.3 | 99.1 | 105.0 | 129.4 | 115.4 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 486.7 |
| 9:52:08 | 5:07:33 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.7 | 98.3 | 98.4 | 97.5 | 99.7 | 129.3 | 115.3 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 488.3 |
| 9:53:08 | 5:08:33 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.2 | 96.3 | 129.2 | 115.2 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 486.7 |
| 9:54:08 | 5:09:33 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.2 | 96.3 | 129.3 | 115.1 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 486.7 |
| 9:55:08 | 5:10:34 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.3 | 96.8 | 129.4 | 115.1 | 74.2 | 73.5 | 100.4 | 674.0 | 451.4 | 486.8 |
| 9:56:08 | 5:11:34 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 96.9 | 129.1 | 115.0 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 486.8 |
| 9:57:08 | 5:12:34 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 97.2 | 102.2 | 133.2 | 114.9 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 486.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000116

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:58:08 | 5:13:34 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 103.4 | 119.4 | 133.8 | 114.9 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 486.8 |
| 9:59:08 | 5:14:34 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 101.8 | 111.7 | 133.4 | 114.8 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 486.8 |
| 10:00:08 | 5:15:34 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 98.1 | 100.3 | 133.4 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 486.8 |
| 10:01:09 | 5:16:34 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.0 | 133.4 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 486.8 |
| 10:02:09 | 5:17:34 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 133.3 | 114.6 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 486.8 |
| 10:03:09 | 5:18:35 | 26.0 | 26.1 | 30.1 | 50.0 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.5 | 133.2 | 114.6 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 486.8 |
| 10:04:09 | 5:19:35 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.7 | 133.2 | 114.5 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 486.8 |
| 10:05:09 | 5:20:35 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98:5 | 97.1 | 97.8 | 133.1 | 114.5 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 486.7 |
| 10:06:09 | 5:21:35 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.9 | 97.7 | 133.1 | 114.4 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 486.7 |
| 10:07:09 | 5:22:35 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 133.1 | 114.3 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 486.8 |
| 10:08:09 | 5:23:35 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 133.0 | 114.2 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 486.8 |
| 10:09:10 | 5:24:35 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.9 | 114.2 | 74.1 | 73.4 | 100.2 | 674.0 | 451.3 | 486.8 |
| 10:10:10 | 5:25:35 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 132.9 | 114.1 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 486.7 |
| 10:11:10 | 5:26:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 132.7 | 114.1 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 486.8 |
| 10:12:10 | 5:27:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 132.8 | 114.4 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 486.8 |
| 10:13:10 | 5:28:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.3 | 98.4 | 96.4 | 97.4 | 132.6 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 486.8 |
| 10:14:10 | 5:29:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 132.6 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 486.8 |
| 10:15:10 | 5:30:36 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.4 | 96.3 | 97.3 | 132.5 | 116.7 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 486.8 |
| 10:16:10 | 5:31:36 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 132.4 | 116.7 | 74.0 | 73.4 | 100.5 | 674.0 | 451.4 | 486.7 |
| 10:17:10 | 5:32:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 96.2 | 97.2 | 132.5 | 116.5 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 485.3 |
| 10:18:10 | 5:33:36 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 101.6 | 114.8 | 132.4 | 116.5 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:19:11 | 5:34:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 104.3 | 119.6 | 132.4 | 116.4 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:20:11 | 5:35:36 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 99.2 | 103.7 | 132.4 | 116.4 | 74.1 | 73.4 | 100.6 | 674.0 | 451.4 | 486.7 |
| 10:21:11 | 5:36:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 98.8 | 98.5 | 98.6 | 97.2 | 97.4 | 132.3 | 116.3 | 74.1 | 73.4 | 100.6 | 674.0 | 451.3 | 484.9 |
| 10:22:11 | 5:37:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.0 | 132.2 | 116.2 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:23:11 | 5:38:37 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.4 | 132.0 | 116.1 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:24:11 | 5:39:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.7 | 132.0 | 116.1 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:25:11 | 5:40:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 131.9 | 116.0 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:26:11 | 5:41:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 131.8 | 116.0 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 485.3 |
| 10:27:12 | 5:42:37 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.7 | 131.9 | 115.8 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 485.2 |
| 10:28:12 | 5:43:37 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 131.8 | 115.8 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 485.3 |
| 10:29:12 | 5:44:38 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.7 | 97.6 | 131.6 | 115.7 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 485.3 |
| 10:30:12 | 5:45:38 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.2 | 98.4 | 96.7 | 97.6 | 131.6 | 115.7 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 485.3 |
| 10:31:12 | 5:46:38 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.5 | 98.2 | 98.4 | 96.6 | 97.5 | 131.6 | 115.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 485.2 |
| 10:32:12 | 5:47:38 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 131.5 | 115.6 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:33:12 | 5:48:38 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.4 | 131.6 | 115.5 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 485.3 |
| 10:34:12 | 5:49:38 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 131.5 | 115.4 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:35:12 | 5:50:38 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.3 | 97.3 | 131.4 | 115.3 | 74.0 | 73.4 | 100.3 | 674.0 | 451.3 | 485.3 |
| 10:36:13 | 5:51:38 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.2 | 97.2 | 131.4 | 115.3 | 74.0 | 73.4 | 100.3 | 674.0 | 451.3 | 485.3 |
| 10:37:13 | 5:52:38 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 131.3 | 115.2 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 485.3 |
| 10:38:13 | 5:53:38 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.9 | 101.2 | 131.4 | 115.2 | 74.0 | 73.4 | 100.3 | 674.0 | 451.3 | 485.3 |
| 10:39:13 | 5:54:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 103.2 | 119.0 | 131.2 | 115.1 | 74.0 | 73.4 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:40:13 | 5:55:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 101.7 | 111.7 | 131.2 | 115.1 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 485.3 |
| 10:41:13 | 5:56:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.4 | 98.9 | 98.3 | 97.9 | 99.0 | 98.5 | 98.5 | 98.0 | 100.2 | 131.1 | 115.0 | 74.0 | 73.4 | 100.4 | 674.0 | 451.4 | 485.3 |
| 10:42:13 | 5:57:39 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 131.1 | 114.9 | 74.0 | 73.5 | 100.5 | 674.0 | 451.4 | 485.2 |
| 10:43:13 | 5:58:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.1 | 97.2 | 131.1 | 114.9 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:44:13 | 5:59:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.5 | 131.1 | 114.8 | 74.0 | 73.5 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:45:14 | 6:00:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.7 | 131.0 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:46:14 | 6:01:39 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 131.0 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 485.3 |
| 10:47:14 | 6:02:39 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 130.8 | 114.6 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 485.2 |
| 10:48:14 | 6:03:40 | 26.0 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 130.7 | 114.5 | 74.1 | 73.6 | 100.3 | 674.0 | 451.4 | 485.2 |
| 10:49:14 | 6:04:40 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.8 | 97.6 | 130.6 | 114.5 | 74.1 | 73.6 | 100.3 | 674.0 | 451.4 | 485.3 |
| 10:50:14 | 6:05:40 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 130.5 | 114.4 | 74.1 | 73.6 | 100.3 | 674.0 | 451.4 | 485.3 |
| 10:51:14 | 6:06:40 | 26.0 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 130.6 | 114.4 | 74.1 | 73.5 | 100.3 | 674.0 | 451.3 | 485.3 |
| 10:52:14 | 6:07:40 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.6 | 98.3 | 98.4 | 96.5 | 97.4 | 130.6 | 114.2 | 74.1 | 73.6 | 100.4 | 674.0 | 451.3 | 485.2 |
| 10:53:14 | 6:08:40 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 130.4 | 114.2 | 74.0 | 73.5 | 100.2 | 674.0 | 451.4 | 485.3 |
| 10:54:15 | 6:09:40 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 130.4 | 114.2 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 485.2 |
| 10:55:15 | 6:10:40 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.3 | 97.2 | 130.4 | 114.1 | 74.0 | 73.5 | 100.1 | 674.0 | 451.4 | 485.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000117

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:56:15 | 6:11:40 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 130.4 | 114.1 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 485.3 |
| 10:57:15 | 6:12:41 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 130.3 | 114.9 | 74.0 | 73.5 | 100.8 | 674.0 | 451.3 | 485.3 |
| 10:58:15 | 6:13:41 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.1 | 97.2 | 130.2 | 116.7 | 74.0 | 73.5 | 100.5 | 674.0 | 451.4 | 485.3 |
| 10:59:15 | 6:14:41 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 101.5 | 114.6 | 130.2 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 485.2 |
| 11:00:15 | 6:15:41 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.4 | 98.4 | 103.9 | 118.7 | 130.0 | 116.7 | 74.1 | 73.4 | 100.5 | 674.0 | 451.3 | 483.8 |
| 11:01:15 | 6:16:41 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.4 | 98.5 | 99.0 | 103.2 | 130.0 | 116.7 | 74.0 | 73.5 | 100.6 | 674.0 | 451.3 | 483.8 |
| 11:02:15 | 6:17:41 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 130.0 | 116.5 | 74.0 | 73.5 | 100.5 | 674.0 | 451.4 | 483.8 |
| 11:03:16 | 6:18:41 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 129.9 | 116.5 | 74.1 | 73.4 | 100.5 | 674.0 | 451.4 | 483.7 |
| 11:04:16 | 6:19:41 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.5 | 129.9 | 116.5 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 483.7 |
| 11:05:16 | 6:20:42 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.0 | 97.6 | 129.9 | 116.3 | 74.0 | 73.5 | 100.6 | 674.0 | 451.4 | 483.7 |
| 11:06:16 | 6:21:42 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 129.7 | 116.3 | 74.0 | 73.5 | 100.5 | 674.0 | 451.3 | 483.8 |
| 11:07:16 | 6:22:42 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 96.9 | 97.7 | 129.7 | 116.2 | 74.0 | 73.6 | 100.6 | 674.0 | 451.3 | 483.7 |
| 11:08:16 | 6:23:42 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.4 | 96.8 | 97.7 | 129.6 | 116.1 | 74.0 | 73.5 | 100.5 | 674.0 | 451.3 | 483.7 |
| 11:09:16 | 6:24:42 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.7 | 129.6 | 116.1 | 74.1 | 73.6 | 100.5 | 674.0 | 451.3 | 483.7 |
| 11:10:16 | 6:25:42 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.5 | 116.0 | 74.1 | 73.6 | 100.6 | 674.0 | 451.4 | 483.7 |
| 11:11:16 | 6:26:42 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 129.5 | 115.9 | 74.1 | 73.6 | 100.5 | 674.0 | 451.3 | 483.7 |
| 11:12:17 | 6:27:42 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.5 | 97.4 | 129.5 | 115.8 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 483.8 |
| 11:13:17 | 6:28:42 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 129.3 | 115.8 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 483.7 |
| 11:14:17 | 6:29:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 129.3 | 115.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 483.8 |
| 11:15:17 | 6:30:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.3 | 129.4 | 115.7 | 74.0 | 73.5 | 100.3 | 674.0 | 451.4 | 483.7 |
| 11:16:17 | 6:31:43 | 25.9 | 26.1 | 30.1 | 49.7 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 129.1 | 115.6 | 74.0 | 73.5 | 100.5 | 674.0 | 451.4 | 483.8 |
| 11:17:17 | 6:32:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 133.9 | 115.5 | 74.0 | 73.5 | 100.4 | 674.0 | 451.4 | 483.8 |
| 11:18:17 | 6:33:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.3 | 98.1 | 98.2 | 96.1 | 97.2 | 133.8 | 115.5 | 74.0 | 73.4 | 100.4 | 674.0 | 451.3 | 483.8 |
| 11:19:17 | 6:34:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 101.0 | 113.3 | 133.7 | 115.4 | 74.0 | 73.4 | 100.4 | 674.0 | 451.4 | 483.7 |
| 11:20:18 | 6:35:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 105.0 | 123.2 | 133.5 | 115.4 | 74.0 | 73.4 | 100.5 | 674.0 | 451.4 | 483.8 |
| 11:21:18 | 6:36:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.4 | 98.9 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 100.2 | 106.9 | 133.6 | 115.3 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 482.2 |
| 11:22:18 | 6:37:43 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 97.7 | 98.6 | 133.5 | 115.2 | 74.0 | 73.5 | 100.6 | 674.0 | 451.4 | 483.7 |
| 11:23:18 | 6:38:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.5 | 98.6 | 97.2 | 97.0 | 133.5 | 115.2 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 483.8 |
| 11:24:18 | 6:39:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.3 | 133.4 | 115.1 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 482.3 |
| 11:25:18 | 6:40:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.2 | 97.7 | 133.3 | 115.0 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 482.2 |
| 11:26:18 | 6:41:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.8 | 133.3 | 115.0 | 74.0 | 73.4 | 100.3 | 674.0 | 451.4 | 482.3 |
| 11:27:18 | 6:42:44 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 133.2 | 114.9 | 74.0 | 73.5 | 100.5 | 674.0 | 451.4 | 482.2 |
| 11:28:19 | 6:43:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.9 | 133.1 | 114.9 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 482.3 |
| 11:29:19 | 6:44:44 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 133.1 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 482.2 |
| 11:30:19 | 6:45:44 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 133.1 | 114.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 482.3 |
| 11:31:19 | 6:46:45 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 133.0 | 114.7 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.2 |
| 11:32:19 | 6:47:45 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 132.9 | 114.6 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.2 |
| 11:33:19 | 6:48:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 133.0 | 114.5 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.3 |
| 11:34:19 | 6:49:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 132.7 | 114.4 | 74.1 | 73.5 | 100.3 | 674.0 | 451.3 | 482.2 |
| 11:35:19 | 6:50:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 132.6 | 114.5 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.3 |
| 11:36:19 | 6:51:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 132.6 | 114.3 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.2 |
| 11:37:20 | 6:52:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 132.6 | 114.3 | 74.1 | 73.5 | 100.2 | 674.0 | 451.3 | 482.3 |
| 11:38:20 | 6:53:45 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.4 | 98.1 | 98.3 | 96.3 | 97.3 | 132.4 | 114.2 | 74.1 | 73.6 | 100.3 | 674.0 | 451.4 | 482.3 |
| 11:39:20 | 6:54:45 | 25.9 | 26.1 | 30.1 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.3 | 96.2 | 97.2 | 132.4 | 114.1 | 74.1 | 73.6 | 100.2 | 674.0 | 451.4 | 482.3 |
| 11:40:20 | 6:55:46 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 96.3 | 98.9 | 132.4 | 114.1 | 74.1 | 73.5 | 100.1 | 674.0 | 451.3 | 482.3 |
| 11:41:20 | 6:56:46 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 102.8 | 118.1 | 132.4 | 114.0 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 482.2 |
| 11:42:20 | 6:57:46 | 25.9 | 26.1 | 30.1 | 49.5 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 101.7 | 111.7 | 132.4 | 115.2 | 74.1 | 73.5 | 100.8 | 674.0 | 451.3 | 482.2 |
| 11:43:20 | 6:58:46 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.9 | 100.1 | 132.3 | 116.7 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 482.2 |
| 11:44:20 | 6:59:46 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 132.3 | 116.7 | 74.1 | 73.6 | 100.6 | 674.0 | 451.4 | 482.3 |
| 11:45:20 | 7:00:46 | 25.9 | 26.1 | 30.1 | 49.1 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 132.3 | 116.7 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 482.3 |
| 11:46:21 | 7:01:46 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.4 | 132.3 | 116.5 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 482.3 |
| 11:47:21 | 7:02:46 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.6 | 132.1 | 116.5 | 74.1 | 73.5 | 100.5 | 674.0 | 451.3 | 482.2 |
| 11:48:21 | 7:03:46 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.1 | 98.5 | 98.1 | 97.8 | 98.7 | 98.4 | 98.5 | 96.9 | 97.7 | 132.2 | 116.4 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 482.3 |
| 11:49:21 | 7:04:47 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 132.1 | 116.4 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 482.3 |
| 11:50:21 | 7:05:47 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.8 | 97.6 | 132.0 | 116.3 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 482.3 |
| 11:51:21 | 7:06:47 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 131.9 | 116.3 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 482.3 |
| 11:52:21 | 7:07:47 | 25.9 | 26.1 | 30.1 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 131.9 | 116.2 | 74.1 | 73.5 | 100.5 | 674.0 | 451.4 | 482.3 |
| 11:53:21 | 7:08:47 | 25.9 | 26.1 | 30.2 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.4 | 131.8 | 116.1 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 482.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000118

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:54:22 | 7:09:47 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.4 | 97.4 | 131.7 | 116.0 | 74.1 | 73.5 | 100.4 | 674.0 | 451.3 | 482.2 |
| 11:55:22 | 7:10:47 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 131.7 | 116.0 | 74.1 | 73.5 | 100.4 | 674.0 | 451.4 | 482.3 |
| 11:56:22 | 7:11:47 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 131.6 | 115.9 | 74.1 | 73.4 | 100.4 | 674.0 | 451.3 | 482.3 |
| 11:57:22 | 7:12:47 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.3 | 97.3 | 131.6 | 115.9 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 482.3 |
| 11:58:22 | 7:13:48 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 131.4 | 115.8 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 482.2 |
| 11:59:22 | 7:14:48 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.1 | 98.3 | 96.2 | 97.2 | 131.4 | 115.7 | 74.1 | 73.5 | 100.3 | 674.0 | 451.3 | 482.3 |
| 12:00:22 | 7:15:48 | 25.9 | 26.1 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 100.8 | 112.4 | 131.4 | 115.6 | 74.1 | 73.4 | 100.3 | 674.0 | 451.4 | 482.3 |
| 12:01:22 | 7:16:48 | 25.9 | 26.1 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.8 | 98.3 | 98.4 | 104.7 | 121.8 | 131.4 | 115.5 | 74.0 | 73.4 | 100.5 | 674.0 | 451.3 | 482.3 |
| 12:02:22 | 7:17:48 | 25.9 | 26.1 | 30.2 | 49.1 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 99.6 | 105.2 | 131.3 | 115.5 | 74.0 | 73.4 | 100.4 | 674.0 | 451.4 | 482.3 |
| 12:03:22 | 7:18:48 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.7 | 98.3 | 97.9 | 99.0 | 98.5 | 98.6 | 97.2 | 97.8 | 131.3 | 115.4 | 73.9 | 73.4 | 100.5 | 674.0 | 451.3 | 482.3 |
| 12:04:22 | 7:19:48 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.3 | 97.9 | 98.8 | 98.5 | 98.6 | 97.0 | 97.0 | 131.2 | 115.4 | 74.0 | 73.4 | 100.4 | 674.0 | 451.3 | 482.3 |
| 12:05:23 | 7:20:48 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.2 | 97.4 | 131.1 | 115.4 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 482.3 |
| 12:06:23 | 7:21:48 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.1 | 97.6 | 131.1 | 115.2 | 74.0 | 73.4 | 100.4 | 674.0 | 451.3 | 482.3 |
| 12:07:23 | 7:22:49 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 97.1 | 97.8 | 131.1 | 115.2 | 74.1 | 73.4 | 100.4 | 674.0 | 451.4 | 482.3 |
| 12:08:23 | 7:23:49 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 130.9 | 115.1 | 74.0 | 73.5 | 100.4 | 674.0 | 451.4 | 482.2 |
| 12:09:23 | 7:24:49 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 130.8 | 115.1 | 74.0 | 73.5 | 100.3 | 674.0 | 451.4 | 482.3 |
| 12:10:23 | 7:25:49 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 130.8 | 115.0 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.2 |
| 12:11:23 | 7:26:49 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.8 | 97.7 | 130.7 | 115.0 | 74.1 | 73.5 | 100.3 | 674.0 | 451.4 | 482.3 |
| 12:12:23 | 7:27:49 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.7 | 130.7 | 114.9 | 74.1 | 73.5 | 100.2 | 674.0 | 451.4 | 482.2 |
| 12:13:23 | 7:28:49 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 130.8 | 114.8 | 74.1 | 73.6 | 100.3 | 674.0 | 451.4 | 482.3 |
| 12:14:24 | 7:29:49 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.5 | 130.7 | 114.7 | 74.1 | 73.6 | 100.3 | 674.0 | 451.3 | 482.2 |
| 12:15:24 | 7:30:49 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.5 | 98.2 | 98.4 | 96.6 | 97.5 | 130.5 | 114.7 | 74.2 | 73.6 | 100.2 | 674.0 | 451.4 | 482.2 |
| 12:16:24 | 7:31:50 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 130.4 | 114.6 | 74.1 | 73.7 | 100.3 | 674.0 | 451.3 | 482.3 |
| 12:17:24 | 7:32:50 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 130.3 | 114.6 | 74.2 | 73.6 | 100.2 | 674.0 | 451.4 | 482.3 |
| 12:18:24 | 7:33:50 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 130.2 | 114.5 | 74.2 | 73.6 | 100.1 | 674.0 | 451.4 | 482.3 |
| 12:19:24 | 7:34:50 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 130.2 | 114.5 | 74.3 | 73.7 | 100.2 | 674.0 | 451.4 | 482.2 |
| 12:20:24 | 7:35:50 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 98.2 | 105.1 | 130.2 | 114.4 | 74.3 | 73.7 | 100.1 | 674.0 | 451.4 | 482.2 |
| 12:21:24 | 7:36:50 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 99.1 | 105.0 | 130.1 | 114.3 | 74.3 | 73.7 | 100.2 | 674.0 | 451.4 | 482.2 |
| 12:22:25 | 7:37:50 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.9 | 100.7 | 130.1 | 114.2 | 74.3 | 73.7 | 100.2 | 674.0 | 451.4 | 482.3 |
| 12:23:25 | 7:38:50 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 97.4 | 99.2 | 130.1 | 114.2 | 74.3 | 73.7 | 100.2 | 674.0 | 451.4 | 482.3 |
| 12:24:25 | 7:39:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.6 | 130.1 | 114.1 | 74.3 | 73.8 | 100.3 | 674.0 | 451.4 | 482.3 |
| 12:25:25 | 7:40:51 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 97.1 | 98.3 | 129.9 | 114.1 | 74.4 | 73.8 | 100.3 | 674.0 | 451.3 | 482.3 |
| 12:26:25 | 7:41:51 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 96.9 | 98.0 | 129.9 | 114.0 | 74.4 | 73.8 | 100.2 | 674.0 | 451.4 | 482.2 |
| 12:27:25 | 7:42:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.8 | 97.9 | 129.9 | 115.9 | 74.4 | 73.8 | 100.9 | 674.0 | 451.4 | 482.3 |
| 12:28:25 | 7:43:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.7 | 97.7 | 129.9 | 116.7 | 74.4 | 73.8 | 100.4 | 674.0 | 451.4 | 480.8 |
| 12:29:25 | 7:44:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.1 | 98.2 | 96.6 | 97.7 | 129.7 | 116.7 | 74.4 | 73.8 | 100.4 | 674.0 | 451.4 | 480.8 |
| 12:30:25 | 7:45:51 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.3 | 96.6 | 97.6 | 129.6 | 116.7 | 74.5 | 73.8 | 100.5 | 674.0 | 451.4 | 480.7 |
| 12:31:26 | 7:46:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.5 | 129.6 | 116.5 | 74.5 | 73.8 | 100.3 | 674.0 | 451.3 | 480.8 |
| 12:32:26 | 7:47:51 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 101.6 | 114.2 | 129.6 | 116.4 | 74.5 | 73.9 | 100.5 | 674.0 | 451.3 | 480.7 |
| 12:33:26 | 7:48:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.8 | 98.8 | 98.3 | 98.4 | 104.9 | 121.8 | 129.5 | 116.4 | 74.5 | 73.8 | 100.5 | 674.0 | 451.3 | 480.8 |
| 12:34:26 | 7:49:52 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.4 | 98.8 | 98.3 | 97.9 | 99.0 | 98.4 | 98.5 | 99.7 | 105.0 | 129.5 | 116.3 | 74.5 | 73.9 | 100.6 | 674.0 | 451.3 | 480.7 |
| 12:35:26 | 7:50:52 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 97.5 | 97.9 | 129.4 | 116.2 | 74.5 | 73.8 | 100.5 | 674.0 | 451.4 | 480.8 |
| 12:36:26 | 7:51:52 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 96.9 | 129.2 | 116.1 | 74.6 | 73.8 | 100.5 | 674.0 | 451.3 | 480.7 |
| 12:37:26 | 7:52:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 97.3 | 129.1 | 116.1 | 74.6 | 73.8 | 100.5 | 674.0 | 451.4 | 480.7 |
| 12:38:26 | 7:53:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 97.7 | 129.0 | 116.0 | 74.6 | 73.8 | 100.5 | 674.0 | 451.4 | 480.8 |
| 12:39:27 | 7:54:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.1 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 97.9 | 133.7 | 116.0 | 74.7 | 73.9 | 100.5 | 674.0 | 451.3 | 480.8 |
| 12:40:27 | 7:55:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.1 | 97.9 | 133.8 | 115.9 | 74.7 | 73.8 | 100.5 | 674.0 | 451.3 | 480.8 |
| 12:41:27 | 7:56:52 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.0 | 97.9 | 133.5 | 115.8 | 74.7 | 73.8 | 100.5 | 674.0 | 451.4 | 480.7 |
| 12:42:27 | 7:57:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 133.6 | 115.7 | 74.7 | 73.9 | 100.5 | 674.0 | 451.4 | 480.7 |
| 12:43:27 | 7:58:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.9 | 97.8 | 133.3 | 115.7 | 74.7 | 73.8 | 100.5 | 674.0 | 451.4 | 480.7 |
| 12:44:27 | 7:59:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.2 | 98.4 | 96.8 | 97.7 | 133.4 | 115.6 | 74.7 | 73.8 | 100.5 | 674.0 | 451.3 | 480.8 |
| 12:45:27 | 8:00:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 133.4 | 115.5 | 74.7 | 73.8 | 100.4 | 674.0 | 451.4 | 480.8 |
| 12:46:27 | 8:01:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.6 | 133.4 | 115.5 | 74.7 | 73.8 | 100.5 | 674.0 | 451.4 | 480.8 |
| 12:47:27 | 8:02:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.5 | 133.3 | 115.4 | 74.7 | 73.8 | 100.4 | 674.0 | 451.4 | 480.7 |
| 12:48:28 | 8:03:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.4 | 133.1 | 115.3 | 74.6 | 73.8 | 100.3 | 674.0 | 451.3 | 480.7 |
| 12:49:28 | 8:04:53 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.4 | 97.4 | 133.0 | 115.2 | 74.6 | 73.7 | 100.3 | 674.0 | 451.4 | 480.8 |
| 12:50:28 | 8:05:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 133.0 | 115.2 | 74.7 | 73.8 | 100.3 | 674.0 | 451.4 | 480.7 |
| 12:51:28 | 8:06:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 96.3 | 97.3 | 132.9 | 115.1 | 74.7 | 73.7 | 100.3 | 674.0 | 451.3 | 480.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000119

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:52:28 | 8:07:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 100.5 | 109.7 | 132.8 | 115.1 | 74.7 | 73.7 | 100.3 | 674.0 | 451.4 | 480.7 |
| 12:53:28 | 8:08:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 98.3 | 102.5 | 132.8 | 115.0 | 74.7 | 73.7 | 100.3 | 674.0 | 451.3 | 480.7 |
| 12:54:28 | 8:09:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.2 | 98.4 | 97.6 | 99.9 | 132.8 | 115.0 | 74.7 | 73.7 | 100.3 | 674.0 | 451.4 | 480.7 |
| 12:55:28 | 8:10:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 97.2 | 98.8 | 132.7 | 114.8 | 74.6 | 73.7 | 100.3 | 674.0 | 451.3 | 480.8 |
| 12:56:28 | 8:11:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.3 | 97.1 | 98.4 | 132.6 | 114.8 | 74.6 | 73.6 | 100.2 | 674.0 | 451.4 | 480.7 |
| 12:57:29 | 8:12:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 97.0 | 98.1 | 132.6 | 114.7 | 74.7 | 73.6 | 100.2 | 674.0 | 451.4 | 481.0 |
| 12:58:29 | 8:13:54 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.9 | 97.9 | 132.5 | 114.7 | 74.6 | 73.6 | 100.2 | 674.0 | 451.4 | 480.7 |
| 12:59:29 | 8:14:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.8 | 97.8 | 132.4 | 114.6 | 74.7 | 73.6 | 100.2 | 674.0 | 451.4 | 480.8 |
| 13:00:29 | 8:15:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 96.6 | 97.7 | 132.4 | 114.5 | 74.6 | 73.6 | 100.2 | 674.0 | 451.3 | 480.8 |
| 13:01:29 | 8:16:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.2 | 96.6 | 97.6 | 132.3 | 114.5 | 74.7 | 73.6 | 100.1 | 674.0 | 451.4 | 480.7 |
| 13:02:29 | 8:17:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.1 | 98.2 | 96.4 | 97.5 | 132.4 | 114.4 | 74.6 | 73.5 | 100.1 | 674.0 | 451.3 | 480.8 |
| 13:03:29 | 8:18:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 98.6 | 106.4 | 132.2 | 114.4 | 74.6 | 73.5 | 100.1 | 674.0 | 451.4 | 480.7 |
| 13:04:29 | 8:19:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.7 | 98.3 | 98.4 | 104.1 | 121.2 | 132.2 | 114.3 | 74.6 | 73.5 | 100.2 | 674.0 | 451.3 | 480.7 |
| 13:05:30 | 8:20:55 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.4 | 98.5 | 101.5 | 110.6 | 132.2 | 114.2 | 74.6 | 73.5 | 100.3 | 674.0 | 451.3 | 480.8 |
| 13:06:30 | 8:21:55 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.6 | 98.2 | 100.0 | 132.1 | 114.1 | 74.5 | 73.5 | 100.1 | 674.0 | 451.4 | 480.8 |
| 13:07:30 | 8:22:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.8 | 98.2 | 97.9 | 99.0 | 98.5 | 98.5 | 97.1 | 96.9 | 132.0 | 114.1 | 74.5 | 73.4 | 100.1 | 674.0 | 451.4 | 480.7 |
| 13:08:30 | 8:23:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.2 | 132.0 | 114.1 | 74.6 | 73.4 | 100.1 | 674.0 | 451.4 | 480.8 |
| 13:09:30 | 8:24:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.5 | 98.6 | 97.2 | 97.6 | 131.9 | 114.0 | 74.6 | 73.4 | 100.1 | 674.0 | 451.3 | 480.7 |
| 13:10:30 | 8:25:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.8 | 131.9 | 116.1 | 74.6 | 73.4 | 100.8 | 674.0 | 451.3 | 480.7 |
| 13:11:30 | 8:26:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.8 | 131.8 | 116.7 | 74.5 | 73.4 | 100.3 | 674.0 | 451.4 | 480.8 |
| 13:12:30 | 8:27:56 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.9 | 131.6 | 116.7 | 74.6 | 73.3 | 100.3 | 674.0 | 451.4 | 480.8 |
| 13:13:31 | 8:28:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 131.6 | 116.7 | 74.5 | 73.3 | 100.2 | 674.0 | 451.3 | 480.8 |
| 13:14:31 | 8:29:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 131.6 | 116.7 | 74.5 | 73.3 | 100.2 | 674.0 | 451.3 | 480.8 |
| 13:15:31 | 8:30:56 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.8 | 97.7 | 131.4 | 116.5 | 74.5 | 73.3 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:16:31 | 8:31:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.7 | 98.4 | 98.5 | 96.7 | 97.6 | 131.6 | 116.4 | 74.5 | 73.3 | 100.3 | 674.0 | 451.3 | 480.8 |
| 13:17:31 | 8:32:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 131.5 | 116.4 | 74.5 | 73.2 | 100.3 | 674.0 | 451.3 | 480.8 |
| 13:18:31 | 8:33:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.6 | 97.6 | 131.5 | 116.4 | 74.5 | 73.3 | 100.3 | 674.0 | 451.4 | 480.7 |
| 13:19:31 | 8:34:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.3 | 98.1 | 97.9 | 98.6 | 98.3 | 98.5 | 96.5 | 97.5 | 131.4 | 116.3 | 74.5 | 73.3 | 100.3 | 674.0 | 451.4 | 479.2 |
| 13:20:31 | 8:35:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.4 | 131.4 | 116.2 | 74.5 | 73.2 | 100.3 | 674.0 | 451.3 | 480.8 |
| 13:21:31 | 8:36:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.4 | 97.4 | 131.2 | 116.1 | 74.5 | 73.2 | 100.2 | 674.0 | 451.4 | 480.7 |
| 13:22:31 | 8:37:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.3 | 98.4 | 96.4 | 97.3 | 131.3 | 116.1 | 74.5 | 73.1 | 100.1 | 674.0 | 451.4 | 479.3 |
| 13:23:32 | 8:38:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.3 | 97.2 | 131.2 | 116.0 | 74.5 | 73.2 | 100.2 | 674.0 | 451.4 | 479.2 |
| 13:24:32 | 8:39:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 131.1 | 116.0 | 74.5 | 73.2 | 100.1 | 674.0 | 451.4 | 479.3 |
| 13:25:32 | 8:40:57 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 131.0 | 115.9 | 74.5 | 73.2 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:26:32 | 8:41:58 | 25.9 | 26.0 | 30.2 | 49.5 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 100.8 | 110.5 | 131.0 | 115.8 | 74.5 | 73.2 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:27:32 | 8:42:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 98.4 | 102.7 | 131.0 | 115.7 | 74.5 | 73.2 | 100.2 | 674.0 | 451.4 | 479.3 |
| 13:28:32 | 8:43:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.7 | 130.9 | 115.7 | 74.6 | 73.1 | 100.2 | 674.0 | 451.3 | 479.3 |
| 13:29:32 | 8:44:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.2 | 98.4 | 96.4 | 97.0 | 130.8 | 115.6 | 74.5 | 73.1 | 100.2 | 674.0 | 451.3 | 479.3 |
| 13:30:32 | 8:45:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.5 | 98.2 | 98.3 | 96.5 | 97.2 | 130.8 | 115.6 | 74.5 | 73.1 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:31:32 | 8:46:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.2 | 130.8 | 115.6 | 74.5 | 73.2 | 100.1 | 674.0 | 451.4 | 479.2 |
| 13:32:33 | 8:47:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.2 | 130.7 | 115.5 | 74.6 | 73.2 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:33:33 | 8:48:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 97.2 | 130.7 | 115.4 | 74.5 | 73.2 | 100.2 | 674.0 | 451.4 | 479.3 |
| 13:34:33 | 8:49:58 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.3 | 97.2 | 130.7 | 115.3 | 74.6 | 73.2 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:35:33 | 8:50:59 | 25.9 | 26.0 | 30.2 | 49.6 | 100.0 | 97.9 | 98.1 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.2 | 97.2 | 130.6 | 115.2 | 74.6 | 73.3 | 100.1 | 674.0 | 451.4 | 479.2 |
| 13:36:33 | 8:51:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.7 | 98.5 | 98.2 | 98.3 | 102.1 | 116.0 | 130.6 | 115.2 | 74.6 | 73.2 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:37:33 | 8:52:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 102.9 | 115.2 | 130.4 | 115.1 | 74.6 | 73.3 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:38:33 | 8:53:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 99.0 | 98.4 | 98.5 | 98.5 | 101.6 | 130.2 | 115.1 | 74.6 | 73.3 | 100.2 | 674.0 | 451.3 | 479.3 |
| 13:39:33 | 8:54:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.0 | 97.2 | 130.3 | 115.0 | 74.6 | 73.3 | 100.3 | 674.0 | 451.3 | 479.3 |
| 13:40:34 | 8:55:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 130.2 | 115.0 | 74.7 | 73.3 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:41:34 | 8:56:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.0 | 97.4 | 130.1 | 114.9 | 74.7 | 73.3 | 100.2 | 674.0 | 451.3 | 479.3 |
| 13:42:34 | 8:57:59 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 97.1 | 97.7 | 130.0 | 114.9 | 74.7 | 73.3 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:43:34 | 8:59:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 129.9 | 114.8 | 74.7 | 73.3 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:44:34 | 9:00:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 129.9 | 114.7 | 74.7 | 73.4 | 100.1 | 674.0 | 451.4 | 479.3 |
| 13:45:34 | 9:01:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.5 | 96.8 | 97.7 | 129.9 | 114.7 | 74.7 | 73.3 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:46:34 | 9:02:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.8 | 114.6 | 74.7 | 73.4 | 100.1 | 674.0 | 451.3 | 479.3 |
| 13:47:34 | 9:03:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 96.7 | 97.6 | 129.6 | 114.5 | 74.7 | 73.4 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:48:34 | 9:04:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.5 | 97.5 | 129.7 | 114.4 | 74.7 | 73.5 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:49:35 | 9:05:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 96.5 | 97.4 | 129.8 | 114.4 | 74.7 | 73.4 | 100.1 | 674.0 | 451.3 | 479.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000120

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13:50:35 | 9:06:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 129.7 | 114.3 | 74.7 | 73.4 | 100.0 | 674.0 | 451.3 | 479.3 |
| 13:51:35 | 9:07:00 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.3 | 129.6 | 114.2 | 74.7 | 73.5 | 100.1 | 674.0 | 451.3 | 479.3 |
| 13:52:35 | 9:08:01 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 129.4 | 114.2 | 74.7 | 73.4 | 100.0 | 674.0 | 451.3 | 479.2 |
| 13:53:35 | 9:09:01 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.3 | 97.2 | 129.5 | 114.1 | 74.7 | 73.4 | 100.1 | 674.0 | 451.3 | 479.2 |
| 13:54:35 | 9:10:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.7 | 98.4 | 98.1 | 98.3 | 96.2 | 97.2 | 129.4 | 114.0 | 74.7 | 73.4 | 100.0 | 674.0 | 451.3 | 479.2 |
| 13:55:35 | 9:11:01 | 25.9 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 100.8 | 111.2 | 129.4 | 114.0 | 74.7 | 73.4 | 100.0 | 674.0 | 451.3 | 479.3 |
| 13:56:35 | 9:12:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 98.5 | 103.2 | 129.4 | 115.5 | 74.6 | 73.3 | 100.7 | 674.0 | 451.3 | 479.2 |
| 13:57:35 | 9:13:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.7 | 98.3 | 98.4 | 97.7 | 100.1 | 129.4 | 116.7 | 74.6 | 73.3 | 100.2 | 674.0 | 451.3 | 479.2 |
| 13:58:35 | 9:14:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.3 | 98.4 | 97.4 | 99.0 | 129.3 | 116.7 | 74.7 | 73.3 | 100.2 | 674.0 | 451.3 | 477.7 |
| 13:59:36 | 9:15:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 97.2 | 98.4 | 129.3 | 116.7 | 74.7 | 73.3 | 100.2 | 674.0 | 451.3 | 477.7 |
| 14:00:36 | 9:16:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 97.0 | 98.1 | 129.2 | 116.5 | 74.6 | 73.3 | 100.2 | 674.0 | 451.3 | 477.7 |
| 14:01:36 | 9:17:01 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.9 | 98.0 | 129.0 | 116.5 | 74.7 | 73.2 | 100.1 | 674.0 | 451.3 | 477.8 |
| 14:02:36 | 9:18:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.8 | 97.8 | 133.4 | 116.4 | 74.7 | 73.1 | 100.1 | 674.0 | 451.3 | 477.8 |
| 14:03:36 | 9:19:02 | 25.8 | 26.0 | 30.2 | 48.6 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.7 | 97.7 | 133.5 | 116.3 | 74.6 | 73.2 | 100.2 | 674.0 | 451.3 | 477.7 |
| 14:04:36 | 9:20:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 97.9 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.6 | 133.1 | 116.2 | 74.6 | 73.1 | 100.2 | 674.0 | 451.3 | 477.8 |
| 14:05:36 | 9:21:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.5 | 98.2 | 98.3 | 96.5 | 97.5 | 133.0 | 116.2 | 74.6 | 73.1 | 100.1 | 674.0 | 451.3 | 477.8 |
| 14:06:36 | 9:22:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 133.2 | 116.0 | 74.5 | 73.1 | 100.2 | 674.0 | 451.3 | 477.8 |
| 14:07:36 | 9:23:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 102.2 | 115.7 | 133.1 | 116.1 | 74.6 | 73.0 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:08:37 | 9:24:02 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.2 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.4 | 103.4 | 116.6 | 133.1 | 116.0 | 74.6 | 73.0 | 100.2 | 674.0 | 451.3 | 477.7 |
| 14:09:37 | 9:25:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.4 | 98.9 | 98.3 | 98.1 | 99.0 | 98.4 | 98.5 | 98.9 | 102.4 | 133.0 | 116.0 | 74.6 | 73.0 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:10:37 | 9:26:02 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.1 | 97.3 | 133.0 | 115.8 | 74.6 | 73.0 | 100.3 | 674.0 | 451.3 | 477.6 |
| 14:11:37 | 9:27:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.2 | 133.0 | 115.8 | 74.5 | 72.9 | 100.2 | 674.0 | 451.3 | 477.8 |
| 14:12:37 | 9:28:03 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.2 | 97.5 | 133.0 | 115.7 | 74.5 | 72.9 | 100.2 | 674.0 | 451.3 | 477.7 |
| 14:13:37 | 9:29:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.4 | 97.1 | 97.7 | 132.8 | 115.6 | 74.5 | 72.9 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:14:37 | 9:30:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.2 | 97.9 | 98.7 | 98.3 | 98.5 | 97.1 | 97.8 | 132.7 | 115.6 | 74.5 | 72.9 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:15:37 | 9:31:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 132.7 | 115.5 | 74.5 | 72.8 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:16:37 | 9:32:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.7 | 132.7 | 115.4 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 477.8 |
| 14:17:38 | 9:33:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.2 | 98.4 | 96.8 | 97.7 | 132.6 | 115.4 | 74.5 | 72.9 | 100.1 | 674.0 | 451.3 | 477.7 |
| 14:18:38 | 9:34:03 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 96.7 | 97.6 | 132.5 | 115.3 | 74.5 | 72.8 | 100.1 | 674.0 | 451.3 | 477.8 |
| 14:19:38 | 9:35:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.7 | 97.5 | 132.3 | 115.2 | 74.5 | 72.8 | 100.1 | 674.0 | 451.3 | 477.8 |
| 14:20:38 | 9:36:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.5 | 132.2 | 115.2 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 477.7 |
| 14:21:38 | 9:37:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.5 | 97.4 | 132.1 | 115.1 | 74.4 | 72.8 | 100.0 | 674.0 | 451.3 | 477.7 |
| 14:22:38 | 9:38:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.4 | 97.4 | 131.9 | 115.0 | 74.4 | 72.7 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:23:38 | 9:39:04 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 96.4 | 97.3 | 132.0 | 115.0 | 74.5 | 72.8 | 99.9 | 674.0 | 451.3 | 477.8 |
| 14:24:38 | 9:40:04 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 97.9 | 98.2 | 97.9 | 97.7 | 98.4 | 98.2 | 98.3 | 96.3 | 98.3 | 132.0 | 114.9 | 74.4 | 72.7 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:25:38 | 9:41:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 100.6 | 109.3 | 132.0 | 114.9 | 74.5 | 72.7 | 99.9 | 674.0 | 451.3 | 476.2 |
| 14:26:39 | 9:42:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 98.0 | 101.1 | 131.9 | 114.8 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 477.4 |
| 14:27:39 | 9:43:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.2 | 131.6 | 114.7 | 74.4 | 72.7 | 100.0 | 674.0 | 451.3 | 477.7 |
| 14:28:39 | 9:44:04 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.1 | 97.8 | 98.6 | 98.3 | 98.4 | 96.6 | 97.0 | 131.7 | 114.7 | 74.5 | 72.7 | 99.9 | 674.0 | 451.3 | 476.3 |
| 14:29:39 | 9:45:05 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.4 | 96.6 | 97.2 | 131.6 | 114.6 | 74.5 | 72.7 | 99.9 | 674.0 | 451.3 | 476.2 |
| 14:30:39 | 9:46:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.5 | 97.2 | 131.6 | 114.5 | 74.5 | 72.7 | 99.9 | 674.0 | 451.3 | 476.2 |
| 14:31:39 | 9:47:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.3 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 131.6 | 114.5 | 74.5 | 72.8 | 99.9 | 674.0 | 451.3 | 476.3 |
| 14:32:39 | 9:48:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.5 | 98.2 | 98.3 | 96.4 | 97.3 | 131.6 | 114.4 | 74.5 | 72.8 | 99.9 | 674.0 | 451.3 | 476.2 |
| 14:33:39 | 9:49:05 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.0 | 98.2 | 98.0 | 97.8 | 98.4 | 98.2 | 98.3 | 97.0 | 101.3 | 131.6 | 114.3 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 476.3 |
| 14:34:39 | 9:50:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.1 | 98.4 | 98.0 | 97.8 | 98.6 | 98.2 | 98.4 | 103.4 | 119.1 | 131.4 | 114.3 | 74.5 | 72.7 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:35:39 | 9:51:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 101.0 | 109.5 | 131.4 | 114.2 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 476.3 |
| 14:36:40 | 9:52:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 97.9 | 98.8 | 98.4 | 98.6 | 97.9 | 99.5 | 131.3 | 114.2 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:37:40 | 9:53:05 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.7 | 98.2 | 98.1 | 98.8 | 98.4 | 98.6 | 97.1 | 97.2 | 131.2 | 114.1 | 74.6 | 72.8 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:38:40 | 9:54:06 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.4 | 98.5 | 97.1 | 97.3 | 131.3 | 114.1 | 74.5 | 72.8 | 100.0 | 674.0 | 451.3 | 476.2 |
| 14:39:40 | 9:55:06 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.3 | 98.6 | 98.2 | 97.9 | 98.8 | 98.3 | 98.5 | 97.2 | 97.6 | 131.2 | 114.0 | 74.6 | 72.9 | 100.0 | 674.0 | 451.3 | 476.3 |
| 14:40:40 | 9:56:06 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.7 | 131.2 | 116.1 | 74.5 | 72.8 | 100.6 | 674.0 | 451.3 | 476.3 |
| 14:41:40 | 9:57:06 | 25.8 | 26.0 | 30.2 | 49.1 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 97.0 | 97.8 | 131.1 | 116.7 | 74.6 | 72.9 | 100.2 | 674.0 | 451.3 | 476.2 |
| 14:42:40 | 9:58:06 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 131.0 | 116.7 | 74.6 | 72.9 | 100.2 | 674.0 | 451.3 | 476.2 |
| 14:43:40 | 9:59:06 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.2 | 98.5 | 98.1 | 97.9 | 98.7 | 98.3 | 98.5 | 96.9 | 97.8 | 131.1 | 116.7 | 74.6 | 72.9 | 100.2 | 674.0 | 451.3 | 476.2 |

EXPOSURE(2) SUMMARY 03/08/2015 20:43:35

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | | | | | | | | | | | | | | | |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000121

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:44:34 | 10:00:00 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.2 | 98.4 | 96.8 | 97.7 | 131.0 | 116.7 | 74.6 | 72.9 | 100.2 | 674.0 | 451.3 | 476.3 |

START PRESS: 0026.2 MAX PRESS: 0026.2 MAX TEMP: 099.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 134.0 MAX GAS TEMP: 075.5
END PRESS: 0025.8 MIN PRESS: 0025.8 MIN TEMP: 098.1 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 073.9
PRESS CHANGE: 000.4 ETO USED 1: 000.0 ETO USED 2: 000.1 MAX VAP TEMP: 116.8
EO USED PHASE: 000.1 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

STERILANT REMOVAL 03/08/2015 20:43:35

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:44:34 | 0:00:00 | 25.8 | 26.0 | 30.2 | 48.7 | 100.0 | 98.1 | 98.4 | 98.1 | 97.9 | 98.6 | 98.2 | 98.4 | 96.8 | 97.7 | 131.0 | 116.7 | 74.6 | 72.9 | 100.2 | 674.0 | 451.3 | 476.3 |
| 14:45:34 | 0:01:00 | 24.6 | 24.8 | 30.2 | 47.3 | 100.0 | 97.9 | 98.2 | 97.8 | 97.7 | 98.4 | 97.9 | 98.2 | 100.2 | 107.4 | 131.0 | 116.5 | 74.6 | 78.3 | 100.3 | 674.0 | 451.3 | 458.2 |
| 14:46:35 | 0:02:00 | 24.0 | 24.1 | 30.2 | 46.4 | 100.0 | 98.0 | 98.3 | 97.9 | 97.7 | 98.5 | 97.9 | 98.2 | 99.8 | 106.2 | 130.8 | 116.4 | 74.6 | 80.3 | 100.3 | 674.0 | 451.3 | 446.1 |
| 14:47:35 | 0:03:00 | 23.4 | 23.6 | 30.2 | 45.5 | 100.0 | 98.0 | 98.4 | 97.9 | 97.7 | 98.6 | 98.1 | 98.3 | 99.9 | 105.7 | 130.8 | 116.4 | 74.6 | 81.6 | 100.3 | 674.0 | 451.3 | 435.5 |
| 14:48:35 | 0:04:00 | 22.8 | 22.9 | 30.2 | 45.0 | 100.0 | 98.0 | 98.5 | 97.9 | 97.7 | 98.6 | 98.1 | 98.2 | 100.5 | 106.7 | 130.7 | 116.3 | 74.6 | 82.5 | 100.4 | 674.0 | 451.3 | 422.0 |
| 14:49:35 | 0:05:00 | 22.2 | 22.3 | 30.2 | 44.1 | 100.0 | 98.0 | 98.5 | 97.9 | 97.7 | 98.7 | 98.1 | 98.3 | 100.9 | 107.9 | 130.7 | 116.2 | 74.6 | 83.1 | 100.3 | 674.0 | 451.3 | 410.0 |
| 14:50:35 | 0:06:01 | 21.5 | 21.7 | 30.2 | 43.2 | 100.0 | 98.0 | 98.5 | 97.9 | 97.7 | 98.7 | 98.1 | 98.3 | 101.1 | 108.9 | 130.5 | 116.2 | 74.6 | 83.7 | 100.4 | 674.0 | 451.3 | 397.9 |
| 14:51:35 | 0:07:01 | 20.9 | 21.0 | 30.2 | 42.4 | 98.2 | 98.1 | 98.6 | 98.0 | 97.8 | 98.7 | 98.1 | 98.2 | 100.5 | 108.1 | 130.4 | 116.1 | 74.7 | 84.2 | 100.4 | 674.0 | 451.3 | 385.9 |
| 14:52:35 | 0:08:01 | 20.2 | 20.4 | 30.2 | 41.4 | 95.9 | 98.1 | 98.6 | 98.0 | 97.8 | 98.8 | 98.1 | 98.3 | 99.2 | 103.4 | 130.5 | 116.0 | 74.6 | 84.5 | 100.3 | 674.0 | 451.3 | 373.8 |
| 14:53:35 | 0:09:01 | 19.6 | 19.7 | 30.2 | 40.5 | 93.8 | 98.1 | 98.6 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 99.9 | 103.6 | 130.6 | 116.0 | 74.7 | 84.8 | 100.5 | 674.0 | 451.3 | 361.8 |
| 14:54:35 | 0:10:01 | 18.9 | 19.0 | 30.2 | 39.6 | 91.8 | 98.1 | 98.6 | 98.0 | 97.8 | 98.8 | 98.1 | 98.3 | 100.8 | 106.2 | 130.3 | 115.9 | 74.7 | 85.1 | 100.5 | 674.0 | 451.3 | 349.8 |
| 14:55:35 | 0:11:01 | 18.3 | 18.4 | 30.2 | 38.7 | 89.7 | 98.1 | 98.6 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 101.5 | 109.1 | 130.3 | 115.8 | 74.6 | 85.3 | 100.6 | 674.0 | 451.3 | 337.7 |
| 14:56:36 | 0:12:01 | 17.6 | 17.7 | 30.2 | 37.3 | 86.6 | 98.1 | 98.6 | 97.9 | 97.8 | 98.8 | 98.2 | 98.3 | 99.8 | 105.1 | 130.2 | 115.8 | 74.7 | 85.5 | 100.5 | 674.0 | 451.3 | 324.1 |
| 14:57:36 | 0:13:01 | 16.9 | 17.0 | 30.2 | 36.4 | 84.6 | 98.1 | 98.6 | 97.9 | 97.7 | 98.8 | 98.2 | 98.3 | 99.8 | 103.0 | 130.1 | 115.7 | 74.7 | 85.6 | 100.5 | 674.0 | 451.3 | 310.6 |
| 14:58:36 | 0:14:01 | 16.2 | 16.4 | 30.2 | 35.5 | 82.2 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 101.0 | 106.3 | 130.1 | 115.6 | 74.7 | 85.7 | 100.5 | 674.0 | 451.3 | 300.1 |
| 14:59:36 | 0:15:01 | 15.5 | 15.7 | 30.2 | 34.6 | 80.4 | 98.1 | 98.6 | 97.9 | 97.7 | 98.8 | 98.1 | 98.3 | 101.3 | 108.9 | 130.0 | 115.5 | 74.7 | 85.9 | 100.5 | 674.0 | 451.3 | 286.5 |
| 15:00:36 | 0:16:02 | 14.9 | 15.1 | 30.2 | 33.2 | 77.0 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 99.5 | 101.7 | 129.9 | 115.5 | 74.7 | 85.9 | 100.5 | 674.0 | 451.3 | 274.5 |
| 15:01:36 | 0:17:02 | 14.2 | 14.3 | 30.2 | 32.8 | 75.9 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 100.7 | 105.0 | 129.9 | 115.4 | 74.6 | 86.0 | 100.5 | 674.0 | 451.3 | 262.5 |
| 15:02:36 | 0:18:02 | 13.5 | 13.7 | 30.2 | 31.9 | 73.8 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 101.8 | 109.2 | 129.9 | 115.3 | 74.7 | 86.1 | 100.5 | 674.0 | 451.3 | 250.4 |
| 15:03:36 | 0:19:02 | 12.9 | 13.0 | 30.2 | 31.0 | 71.7 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.1 | 98.3 | 99.4 | 102.0 | 129.8 | 115.2 | 74.7 | 86.0 | 100.5 | 674.0 | 451.3 | 238.4 |
| 15:04:36 | 0:20:02 | 12.2 | 12.3 | 30.2 | 29.6 | 68.6 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.1 | 98.2 | 100.5 | 104.1 | 129.8 | 115.2 | 74.7 | 86.1 | 100.5 | 674.0 | 451.3 | 226.3 |
| 15:05:37 | 0:21:02 | 11.5 | 11.6 | 30.2 | 28.7 | 66.5 | 98.2 | 98.7 | 98.0 | 97.8 | 98.8 | 98.2 | 98.3 | 101.9 | 108.9 | 129.8 | 115.1 | 74.7 | 86.2 | 100.5 | 674.0 | 451.3 | 214.3 |
| 15:06:37 | 0:22:02 | 10.8 | 11.0 | 30.2 | 27.4 | 63.4 | 98.1 | 98.7 | 97.9 | 97.7 | 98.8 | 98.1 | 98.2 | 99.4 | 101.6 | 129.5 | 115.1 | 74.7 | 86.2 | 100.5 | 674.0 | 451.3 | 202.2 |
| 15:07:37 | 0:23:02 | 10.2 | 10.3 | 30.2 | 26.9 | 62.3 | 98.1 | 98.7 | 98.0 | 97.7 | 98.8 | 98.1 | 98.2 | 100.7 | 104.5 | 129.5 | 115.0 | 74.7 | 86.3 | 100.5 | 674.0 | 451.3 | 191.7 |
| 15:08:37 | 0:24:02 | 9.5 | 9.6 | 30.2 | 25.5 | 59.2 | 98.1 | 98.7 | 97.9 | 97.7 | 98.8 | 98.1 | 98.2 | 101.9 | 109.2 | 129.5 | 114.9 | 74.7 | 86.3 | 100.5 | 674.0 | 451.3 | 179.7 |
| 15:09:37 | 0:25:03 | 8.8 | 8.9 | 30.2 | 24.6 | 57.2 | 98.1 | 98.6 | 97.9 | 97.7 | 98.8 | 98.1 | 98.2 | 99.5 | 101.2 | 129.4 | 114.9 | 74.7 | 86.3 | 100.5 | 674.0 | 451.3 | 167.6 |
| 15:10:37 | 0:26:03 | 8.1 | 8.3 | 30.2 | 23.3 | 54.1 | 98.0 | 98.6 | 97.9 | 97.6 | 98.8 | 98.1 | 98.2 | 100.9 | 105.2 | 129.4 | 114.8 | 74.7 | 86.4 | 100.5 | 674.0 | 451.3 | 155.6 |
| 15:11:37 | 0:27:03 | 7.5 | 7.6 | 30.2 | 21.9 | 51.0 | 98.0 | 98.6 | 97.9 | 97.6 | 98.8 | 98.1 | 98.1 | 101.5 | 108.7 | 129.3 | 114.7 | 74.7 | 86.4 | 100.5 | 674.0 | 451.3 | 143.6 |
| 15:12:37 | 0:28:03 | 6.9 | 7.0 | 30.2 | 21.0 | 48.8 | 98.1 | 98.7 | 97.9 | 97.6 | 98.8 | 98.1 | 98.1 | 99.7 | 101.6 | 129.3 | 114.6 | 74.6 | 86.3 | 100.5 | 674.0 | 451.3 | 133.0 |
| 15:13:37 | 0:29:03 | 6.4 | 6.5 | 30.2 | 20.6 | 47.7 | 98.1 | 98.7 | 98.0 | 97.7 | 98.8 | 98.1 | 98.1 | 101.3 | 106.0 | 129.3 | 114.5 | 74.6 | 86.0 | 100.5 | 674.0 | 451.3 | 124.0 |
| 15:14:38 | 0:30:03 | 6.1 | 6.2 | 30.2 | 19.7 | 45.5 | 98.1 | 98.7 | 98.0 | 97.7 | 98.8 | 98.2 | 98.2 | 100.7 | 107.0 | 129.1 | 114.5 | 74.7 | 85.6 | 100.4 | 674.0 | 451.3 | 118.0 |
| 15:15:38 | 0:31:03 | 5.8 | 5.9 | 30.2 | 19.2 | 44.4 | 98.2 | 98.8 | 98.1 | 97.8 | 99.0 | 98.3 | 98.2 | 100.0 | 102.3 | 129.0 | 114.5 | 74.7 | 85.1 | 100.4 | 674.0 | 451.3 | 112.1 |
| 15:16:38 | 0:32:03 | 5.6 | 5.7 | 30.2 | 19.2 | 44.4 | 98.2 | 98.8 | 98.1 | 97.8 | 99.0 | 98.3 | 98.3 | 101.6 | 107.0 | 133.5 | 114.4 | 74.7 | 84.6 | 100.5 | 674.0 | 451.3 | 109.0 |

STERILANT REMOVAL SUMMARY 03/08/2015 21:16:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:17:36 | 0:33:02 | 5.0 | 5.1 | 30.2 | 18.8 | 43.4 | 98.2 | 98.8 | 98.1 | 97.7 | 98.8 | 98.2 | 98.2 | 99.5 | 102.6 | 133.4 | 114.4 | 74.7 | 84.7 | 100.4 | 674.0 | 451.3 | 103.0 |

START PRESS: 0025.8 MAX PRESS: 0025.8 MAX TEMP: 099.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.5 MAX GAS TEMP: 074.7
END PRESS: 0005.0 MIN PRESS: 0005.0 MIN TEMP: 097.9 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 074.5
PRESS CHANGE: 020.8 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 114.3

POST N2 WASH(1) 03/08/2015 21:16:36

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000122

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:17:36 | 0:00:00 | 5.0 | 5.1 | 30.2 | 18.8 | 43.4 | 98.2 | 98.8 | 98.1 | 97.7 | 98.8 | 98.2 | 98.2 | 99.5 | 102.6 | 133.4 | 114.4 | 74.7 | 84.7 | 100.4 | 674.0 | 451.3 | 103.0 |
| 15:18:36 | 0:01:00 | 6.2 | 6.4 | 30.2 | 19.2 | 43.8 | 98.7 | 99.2 | 98.6 | 98.1 | 99.3 | 98.7 | 98.7 | 100.1 | 102.7 | 133.2 | 114.3 | 86.8 | 84.3 | 100.4 | 674.0 | 451.3 | 106.0 |
| 15:19:36 | 0:02:00 | 7.5 | 7.7 | 30.2 | 20.1 | 45.5 | 99.0 | 99.5 | 98.9 | 98.4 | 99.6 | 99.1 | 99.1 | 101.6 | 106.9 | 133.2 | 114.2 | 97.9 | 83.6 | 100.4 | 674.0 | 451.3 | 104.5 |
| 15:20:36 | 0:03:00 | 8.8 | 8.9 | 30.2 | 20.1 | 45.3 | 99.1 | 99.5 | 99.1 | 98.6 | 99.7 | 99.3 | 99.3 | 100.8 | 107.4 | 133.2 | 114.0 | 102.6 | 82.9 | 100.4 | 674.0 | 451.3 | 101.4 |
| 15:21:36 | 0:04:00 | 10.1 | 10.2 | 30.2 | 20.6 | 46.2 | 99.3 | 99.7 | 99.2 | 98.8 | 99.9 | 99.4 | 99.5 | 99.6 | 101.3 | 133.0 | 115.2 | 104.5 | 82.2 | 101.0 | 674.0 | 451.3 | 101.1 |
| 15:22:36 | 0:05:00 | 11.4 | 11.5 | 30.2 | 20.5 | 46.0 | 99.3 | 99.8 | 99.3 | 98.9 | 100.0 | 99.4 | 99.5 | 100.8 | 104.7 | 133.2 | 116.7 | 106.2 | 81.4 | 100.6 | 674.0 | 451.3 | 99.9 |
| 15:23:37 | 0:06:00 | 12.6 | 12.8 | 30.2 | 21.5 | 47.9 | 99.4 | 99.9 | 99.3 | 99.1 | 100.1 | 99.5 | 99.7 | 101.8 | 108.8 | 133.1 | 116.7 | 107.2 | 80.8 | 100.6 | 674.0 | 451.3 | 98.5 |
| 15:24:37 | 0:07:01 | 13.9 | 14.0 | 30.2 | 21.5 | 47.9 | 99.5 | 99.9 | 99.4 | 99.1 | 100.1 | 99.5 | 99.7 | 99.4 | 102.4 | 133.1 | 116.4 | 107.6 | 80.2 | 100.6 | 674.0 | 451.3 | 98.5 |
| 15:25:37 | 0:08:01 | 15.1 | 15.3 | 30.2 | 21.9 | 48.8 | 99.5 | 100.0 | 99.4 | 99.2 | 100.2 | 99.5 | 99.8 | 100.2 | 102.9 | 132.9 | 116.3 | 107.8 | 79.7 | 100.6 | 674.0 | 451.4 | 97.0 |
| 15:26:37 | 0:09:01 | 16.5 | 16.6 | 30.2 | 22.4 | 49.6 | 99.6 | 100.1 | 99.5 | 99.3 | 100.2 | 99.6 | 99.9 | 101.7 | 107.4 | 132.8 | 116.2 | 107.9 | 79.2 | 100.5 | 674.0 | 451.3 | 96.9 |
| 15:27:37 | 0:10:01 | 17.7 | 17.8 | 30.2 | 22.8 | 50.7 | 99.6 | 100.0 | 99.4 | 99.3 | 100.3 | 99.6 | 100.0 | 100.7 | 106.8 | 132.8 | 116.0 | 107.9 | 78.7 | 100.4 | 674.0 | 451.3 | 96.9 |
| 15:28:37 | 0:11:01 | 19.0 | 19.2 | 30.2 | 23.3 | 51.6 | 99.7 | 100.1 | 99.5 | 99.4 | 100.3 | 99.7 | 100.0 | 99.7 | 101.4 | 132.8 | 116.0 | 108.0 | 78.3 | 100.6 | 674.0 | 451.3 | 97.0 |
| 15:29:37 | 0:12:01 | 20.2 | 20.4 | 30.2 | 23.3 | 51.5 | 99.8 | 100.2 | 99.6 | 99.5 | 100.3 | 99.7 | 100.1 | 101.2 | 105.5 | 132.7 | 115.8 | 107.9 | 77.9 | 100.5 | 674.0 | 451.3 | 96.9 |
| 15:30:37 | 0:13:01 | 21.5 | 21.7 | 30.2 | 23.3 | 51.5 | 99.7 | 100.2 | 99.5 | 99.5 | 100.3 | 99.7 | 100.1 | 101.7 | 108.8 | 132.7 | 115.7 | 107.9 | 77.5 | 100.5 | 674.0 | 451.3 | 96.9 |
| 15:31:37 | 0:14:01 | 22.8 | 23.0 | 30.2 | 23.7 | 52.4 | 99.8 | 100.2 | 99.6 | 99.6 | 100.4 | 99.7 | 100.2 | 99.3 | 101.1 | 132.6 | 115.5 | 107.8 | 77.2 | 100.5 | 674.0 | 451.3 | 96.9 |
| 15:32:38 | 0:15:01 | 24.0 | 24.2 | 30.2 | 24.2 | 53.4 | 99.8 | 100.2 | 99.6 | 99.6 | 100.4 | 99.8 | 100.2 | 100.4 | 103.5 | 132.6 | 115.4 | 107.8 | 76.9 | 100.4 | 674.0 | 451.3 | 96.9 |
| 15:33:38 | 0:16:02 | 25.3 | 25.5 | 30.2 | 24.6 | 54.4 | 99.9 | 100.3 | 99.6 | 99.6 | 100.4 | 99.8 | 100.3 | 101.9 | 108.1 | 132.6 | 115.3 | 107.8 | 76.7 | 100.5 | 674.0 | 451.3 | 97.0 |
| 15:34:38 | 0:17:02 | 26.6 | 26.8 | 30.2 | 24.6 | 54.4 | 99.9 | 100.3 | 99.6 | 99.6 | 100.4 | 99.8 | 100.3 | 99.8 | 104.2 | 132.5 | 115.1 | 107.8 | 76.4 | 100.5 | 674.0 | 451.3 | 97.0 |
| 15:35:38 | 0:18:02 | 27.9 | 28.0 | 30.2 | 25.1 | 55.3 | 99.9 | 100.3 | 99.7 | 99.7 | 100.6 | 99.9 | 100.4 | 100.0 | 102.3 | 132.4 | 115.0 | 107.8 | 76.2 | 100.4 | 674.0 | 451.3 | 98.4 |

POST N2 WASH(1) SUMMARY 03/08/2015 21:35:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:36:08 | 0:18:02 | 28.5 | 28.7 | 30.2 | 25.1 | 55.3 | 99.9 | 100.3 | 99.6 | 99.7 | 100.6 | 99.9 | 100.4 | 100.2 | 105.3 | 132.4 | 115.0 | 107.8 | 75.9 | 100.4 | 674.0 | 451.3 | 98.4 |

START PRESS: 0005.0 MAX PRESS: 0028.5 MAX TEMP: 100.6 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.5 MAX GAS TEMP: 108.0
END PRESS: 0028.5 MIN PRESS: 0005.0 MIN TEMP: 098.1 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 132.3 MIN GAS TEMP: 074.7
PRESS CHANGE: 023.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

POST EVACUATION(1) 03/08/2015 21:35:08

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:36:08 | 0:00:00 | 28.5 | 28.7 | 30.2 | 25.1 | 55.3 | 99.9 | 100.3 | 99.6 | 99.7 | 100.6 | 99.9 | 100.4 | 100.2 | 105.3 | 132.4 | 115.0 | 107.8 | 75.9 | 100.4 | 674.0 | 451.3 | 98.4 |
| 15:37:08 | 0:01:00 | 26.7 | 26.9 | 30.2 | 23.7 | 53.2 | 99.3 | 99.8 | 99.0 | 99.0 | 99.9 | 99.1 | 99.6 | 100.2 | 102.5 | 132.3 | 114.9 | 105.7 | 80.8 | 100.4 | 674.0 | 451.3 | 90.7 |
| 15:38:08 | 0:02:00 | 25.4 | 25.6 | 30.2 | 22.8 | 51.4 | 99.1 | 99.6 | 98.8 | 98.8 | 99.7 | 98.9 | 99.4 | 101.9 | 107.8 | 132.1 | 114.8 | 102.8 | 83.0 | 100.4 | 674.0 | 451.3 | 83.4 |
| 15:39:08 | 0:03:00 | 24.1 | 24.3 | 30.2 | 21.9 | 49.6 | 99.0 | 99.4 | 98.7 | 98.7 | 99.6 | 98.8 | 99.3 | 99.4 | 101.7 | 132.0 | 114.8 | 100.2 | 84.2 | 100.3 | 674.0 | 451.3 | 77.4 |
| 15:40:08 | 0:04:00 | 22.8 | 23.0 | 30.2 | 21.0 | 47.7 | 98.8 | 99.3 | 98.6 | 98.5 | 99.5 | 98.7 | 99.2 | 100.6 | 103.9 | 132.0 | 114.7 | 97.9 | 85.4 | 100.4 | 674.0 | 451.3 | 72.9 |
| 15:41:08 | 0:05:00 | 21.5 | 21.7 | 30.2 | 20.5 | 46.8 | 98.8 | 99.2 | 98.5 | 98.5 | 99.4 | 98.7 | 99.1 | 101.8 | 108.5 | 131.9 | 114.6 | 95.8 | 86.0 | 100.4 | 674.0 | 451.3 | 68.3 |
| 15:42:08 | 0:06:01 | 20.2 | 20.3 | 30.2 | 19.6 | 44.8 | 98.7 | 99.2 | 98.5 | 98.4 | 99.3 | 98.6 | 99.0 | 99.7 | 101.1 | 131.9 | 114.6 | 94.0 | 86.5 | 100.4 | 674.0 | 451.3 | 63.8 |
| 15:43:08 | 0:07:01 | 18.8 | 19.0 | 30.2 | 19.2 | 43.8 | 98.6 | 99.1 | 98.4 | 98.3 | 99.3 | 98.5 | 98.8 | 101.1 | 105.3 | 131.9 | 114.5 | 92.3 | 86.9 | 100.3 | 674.0 | 451.3 | 60.8 |
| 15:44:08 | 0:08:01 | 17.5 | 17.6 | 30.2 | 18.3 | 41.9 | 98.5 | 99.0 | 98.3 | 98.2 | 99.1 | 98.4 | 98.8 | 100.7 | 106.5 | 131.8 | 114.4 | 90.8 | 87.3 | 100.3 | 674.0 | 451.3 | 56.4 |
| 15:45:09 | 0:09:01 | 16.2 | 16.3 | 30.2 | 17.4 | 39.8 | 98.5 | 99.0 | 98.3 | 98.2 | 99.1 | 98.5 | 98.8 | 100.0 | 102.1 | 131.8 | 114.4 | 89.5 | 87.7 | 100.3 | 674.0 | 451.4 | 53.4 |
| 15:46:09 | 0:10:01 | 14.8 | 15.0 | 30.2 | 16.5 | 37.9 | 98.4 | 98.9 | 98.2 | 98.1 | 99.0 | 98.3 | 98.7 | 101.8 | 107.4 | 131.6 | 114.3 | 88.4 | 87.8 | 100.3 | 674.0 | 451.3 | 50.4 |
| 15:47:09 | 0:11:01 | 13.5 | 13.6 | 30.2 | 15.6 | 35.9 | 98.3 | 98.8 | 98.1 | 98.1 | 99.0 | 98.3 | 98.6 | 99.6 | 103.1 | 131.5 | 114.2 | 87.3 | 88.0 | 100.3 | 674.0 | 451.3 | 45.8 |
| 15:48:09 | 0:12:01 | 12.1 | 12.3 | 30.2 | 14.7 | 33.8 | 98.3 | 98.8 | 98.1 | 98.1 | 98.8 | 98.2 | 98.5 | 100.3 | 103.1 | 131.5 | 114.1 | 86.3 | 88.1 | 100.2 | 674.0 | 451.3 | 41.3 |
| 15:49:09 | 0:13:01 | 10.7 | 10.9 | 30.2 | 14.2 | 32.8 | 98.2 | 98.7 | 98.0 | 97.9 | 98.8 | 98.2 | 98.4 | 102.0 | 108.5 | 131.4 | 114.1 | 85.6 | 88.3 | 100.2 | 674.0 | 451.4 | 38.3 |
| 15:50:09 | 0:14:01 | 9.4 | 9.5 | 30.2 | 12.9 | 29.8 | 98.1 | 98.6 | 97.9 | 97.8 | 98.8 | 98.1 | 98.4 | 99.4 | 100.7 | 131.5 | 114.0 | 84.7 | 88.3 | 100.2 | 674.0 | 451.3 | 33.9 |
| 15:51:09 | 0:15:02 | 8.1 | 8.2 | 30.2 | 11.9 | 27.8 | 98.0 | 98.5 | 97.9 | 97.7 | 98.7 | 97.9 | 98.2 | 100.8 | 104.5 | 131.6 | 114.0 | 84.1 | 88.4 | 100.1 | 674.0 | 451.4 | 29.3 |
| 15:52:09 | 0:16:02 | 6.8 | 6.9 | 30.2 | 10.1 | 23.6 | 97.9 | 98.4 | 97.8 | 97.6 | 98.6 | 97.9 | 98.1 | 101.2 | 107.8 | 131.4 | 114.4 | 83.4 | 88.4 | 100.6 | 674.0 | 451.3 | 26.3 |
| 15:53:09 | 0:17:02 | 5.5 | 5.6 | 30.2 | 9.7 | 22.7 | 97.8 | 98.3 | 97.7 | 97.5 | 98.5 | 97.9 | 97.9 | 99.8 | 101.6 | 131.2 | 116.7 | 82.8 | 88.3 | 100.5 | 674.0 | 451.3 | 21.8 |
| 15:54:10 | 0:18:02 | 4.4 | 4.5 | 30.2 | 8.3 | 19.4 | 97.8 | 98.3 | 97.7 | 97.5 | 98.4 | 97.8 | 97.9 | 101.5 | 106.3 | 131.1 | 116.7 | 82.3 | 88.2 | 100.5 | 674.0 | 451.4 | 18.7 |
| 15:55:10 | 0:19:02 | 3.6 | 3.7 | 30.2 | 7.4 | 17.4 | 97.8 | 98.3 | 97.7 | 97.4 | 98.4 | 97.8 | 97.9 | 99.7 | 103.4 | 131.1 | 116.7 | 81.9 | 87.9 | 100.4 | 674.0 | 451.3 | 15.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000123

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:56:10 | 0:20:02 | 3.0 | 3.1 | 30.2 | 7.4 | 17.3 | 97.9 | 98.4 | 97.9 | 97.4 | 98.5 | 97.9 | 97.8 | 100.3 | 103.2 | 131.1 | 116.7 | 81.4 | 87.4 | 100.5 | 674.0 | 451.3 | 12.8 |
| 15:57:10 | 0:21:02 | 2.6 | 2.7 | 30.2 | 7.0 | 16.3 | 97.9 | 98.4 | 97.9 | 97.4 | 98.5 | 97.9 | 97.9 | 102.0 | 108.3 | 131.2 | 116.5 | 81.1 | 86.9 | 100.5 | 674.0 | 451.3 | 12.8 |
| 15:58:10 | 0:22:02 | 2.3 | 2.4 | 30.2 | 7.0 | 16.2 | 98.0 | 98.5 | 98.1 | 97.5 | 98.6 | 98.2 | 97.9 | 99.5 | 100.7 | 131.1 | 116.5 | 80.8 | 86.3 | 100.6 | 674.0 | 451.3 | 11.2 |
| 15:59:10 | 0:23:02 | 2.1 | 2.2 | 30.2 | 7.0 | 16.2 | 98.1 | 98.6 | 98.2 | 97.5 | 98.7 | 98.3 | 97.9 | 100.9 | 104.8 | 131.0 | 116.4 | 80.5 | 85.6 | 100.6 | 674.0 | 451.4 | 11.3 |

POST EVACUATION(1) SUMMARY 03/08/2015 21:58:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:59:50 | 0:23:08 | 2.0 | 2.1 | 30.2 | 7.4 | 17.3 | 98.1 | 98.5 | 98.2 | 97.5 | 98.8 | 98.4 | 97.9 | 99.5 | 100.6 | 130.9 | 116.4 | 80.3 | 85.2 | 100.5 | 674.0 | 451.3 | 9.8 |

START PRESS: 0028.5 MAX PRESS: 0028.5 MAX TEMP: 100.6 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 132.4 MAX GAS TEMP: 107.8
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 130.9 MIN GAS TEMP: 080.3
PRESS CHANGE: 026.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(1) (Loop:1/7) 03/08/2015 21:58:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:59:50 | 0:00:00 | 2.0 | 2.1 | 30.2 | 7.4 | 17.3 | 98.1 | 98.5 | 98.2 | 97.5 | 98.8 | 98.4 | 97.9 | 99.5 | 100.6 | 130.9 | 116.4 | 80.3 | 85.2 | 100.5 | 674.0 | 451.3 | 9.8 |
| 16:01:50 | 0:02:00 | 4.8 | 4.9 | 30.2 | 10.1 | 23.1 | 98.8 | 99.1 | 99.0 | 98.1 | 99.3 | 99.1 | 98.6 | 101.9 | 108.7 | 130.8 | 116.3 | 79.8 | 84.0 | 100.6 | 674.0 | 451.4 | 12.8 |
| 16:03:51 | 0:04:00 | 7.4 | 7.6 | 30.2 | 11.5 | 25.8 | 99.2 | 99.6 | 99.4 | 98.5 | 99.8 | 99.5 | 99.1 | 100.6 | 103.7 | 130.8 | 116.1 | 79.4 | 82.7 | 100.5 | 674.0 | 451.3 | 11.2 |
| 16:05:51 | 0:06:00 | 10.1 | 10.2 | 30.2 | 11.9 | 26.7 | 99.4 | 99.9 | 99.5 | 98.7 | 100.1 | 99.7 | 99.4 | 99.5 | 102.8 | 130.6 | 116.0 | 79.0 | 81.6 | 100.6 | 674.0 | 451.3 | 11.2 |
| 16:07:51 | 0:08:00 | 13.0 | 13.1 | 30.2 | 13.3 | 29.6 | 99.6 | 100.1 | 99.7 | 98.8 | 100.3 | 99.8 | 99.4 | 101.9 | 108.0 | 130.4 | 115.9 | 78.7 | 80.4 | 100.7 | 674.0 | 451.4 | 11.3 |
| 16:09:51 | 0:10:00 | 15.7 | 15.9 | 30.2 | 14.2 | 31.7 | 99.5 | 100.1 | 99.7 | 98.7 | 100.3 | 99.9 | 99.4 | 100.1 | 102.4 | 130.2 | 115.7 | 78.3 | 79.5 | 100.6 | 674.0 | 451.3 | 11.2 |
| 16:11:51 | 0:12:01 | 18.4 | 18.5 | 30.2 | 15.1 | 33.6 | 99.6 | 100.2 | 99.8 | 98.8 | 100.4 | 100.0 | 99.4 | 100.6 | 106.3 | 130.4 | 115.6 | 78.1 | 78.8 | 100.7 | 674.0 | 451.4 | 12.8 |
| 16:13:51 | 0:14:01 | 21.1 | 21.3 | 30.2 | 16.0 | 35.6 | 99.6 | 100.2 | 99.8 | 98.8 | 100.4 | 100.0 | 99.4 | 101.0 | 105.0 | 130.1 | 115.4 | 77.8 | 78.1 | 100.6 | 674.0 | 451.3 | 12.8 |
| 16:15:51 | 0:16:01 | 23.9 | 24.0 | 30.2 | 16.0 | 35.5 | 99.7 | 100.3 | 99.9 | 98.9 | 100.4 | 100.1 | 99.5 | 99.3 | 101.6 | 130.0 | 115.3 | 77.6 | 77.5 | 100.6 | 674.0 | 451.3 | 12.7 |
| 16:17:51 | 0:18:01 | 26.5 | 26.7 | 30.2 | 17.4 | 38.4 | 99.8 | 100.5 | 100.0 | 98.9 | 100.6 | 100.2 | 99.6 | 101.8 | 107.6 | 129.8 | 115.2 | 77.4 | 77.0 | 100.6 | 674.0 | 451.3 | 12.8 |
| 16:19:51 | 0:20:01 | 29.2 | 29.4 | 30.2 | 17.8 | 39.3 | 99.9 | 100.6 | 100.1 | 98.9 | 100.7 | 100.3 | 99.5 | 100.1 | 102.3 | 129.8 | 115.1 | 77.2 | 76.4 | 100.6 | 674.0 | 451.3 | 12.7 |

AIR BACKFILL(1) (Loop:1/7) SUMMARY 03/08/2015 22:18:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:19:55 | 0:20:04 | 29.3 | 29.5 | 30.2 | 17.8 | 39.4 | 99.9 | 100.5 | 100.1 | 98.9 | 100.7 | 100.2 | 99.5 | 99.9 | 101.8 | 129.8 | 115.1 | 77.2 | 76.4 | 100.5 | 674.0 | 451.3 | 12.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.7 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 131.0 MAX GAS TEMP: 080.3
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.9 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.7 MIN GAS TEMP: 077.2
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.4
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 115.0

POST EVACUATION(2) (Loop:1/7) 03/08/2015 22:18:55

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:19:55 | 0:00:00 | 29.3 | 29.5 | 30.2 | 17.8 | 39.4 | 99.9 | 100.5 | 100.1 | 98.9 | 100.7 | 100.2 | 99.5 | 99.9 | 101.8 | 129.8 | 115.1 | 77.2 | 76.4 | 100.5 | 674.0 | 451.3 | 12.7 |
| 16:21:55 | 0:02:00 | 26.3 | 26.4 | 30.2 | 16.0 | 36.1 | 99.1 | 99.6 | 99.1 | 98.5 | 99.8 | 99.3 | 99.2 | 99.7 | 103.1 | 129.6 | 114.9 | 77.0 | 83.2 | 100.5 | 674.0 | 451.3 | 11.2 |
| 16:23:55 | 0:04:00 | 23.7 | 23.8 | 30.2 | 15.1 | 34.3 | 98.9 | 99.4 | 98.8 | 98.4 | 99.5 | 99.0 | 99.0 | 101.9 | 108.1 | 129.6 | 114.8 | 76.9 | 85.4 | 100.5 | 674.0 | 451.3 | 8.3 |
| 16:25:55 | 0:06:00 | 21.0 | 21.2 | 30.2 | 14.2 | 32.4 | 98.7 | 99.2 | 98.7 | 98.2 | 99.5 | 98.9 | 98.8 | 100.8 | 104.4 | 129.4 | 114.7 | 76.7 | 86.6 | 100.6 | 674.0 | 451.4 | 6.7 |
| 16:27:55 | 0:08:00 | 18.3 | 18.5 | 30.2 | 13.3 | 30.5 | 98.6 | 99.0 | 98.5 | 98.1 | 99.3 | 98.8 | 98.8 | 99.8 | 101.6 | 129.4 | 114.5 | 76.6 | 87.4 | 100.6 | 674.0 | 451.3 | 6.8 |
| 16:29:55 | 0:10:00 | 15.7 | 15.8 | 30.2 | 11.9 | 27.4 | 98.5 | 98.9 | 98.4 | 98.1 | 99.1 | 98.6 | 98.6 | 100.0 | 104.5 | 129.1 | 114.4 | 76.4 | 87.8 | 100.5 | 674.0 | 451.3 | 5.2 |
| 16:31:55 | 0:12:01 | 13.0 | 13.1 | 30.2 | 10.6 | 24.4 | 98.4 | 98.8 | 98.3 | 97.9 | 98.8 | 98.4 | 98.4 | 101.9 | 107.9 | 133.6 | 114.3 | 76.3 | 88.0 | 100.4 | 674.0 | 451.3 | 3.4 |
| 16:33:55 | 0:14:01 | 10.3 | 10.4 | 30.2 | 9.7 | 22.4 | 98.2 | 98.6 | 98.1 | 97.8 | 98.8 | 98.3 | 98.3 | 100.7 | 104.0 | 133.6 | 114.1 | 76.1 | 88.0 | 100.4 | 674.0 | 451.3 | -0.8 |
| 16:35:56 | 0:16:01 | 7.6 | 7.7 | 30.2 | 8.3 | 19.3 | 98.0 | 98.5 | 98.0 | 97.6 | 98.6 | 98.1 | 97.9 | 99.7 | 101.2 | 133.2 | 114.9 | 76.0 | 88.0 | 100.9 | 674.0 | 451.4 | -0.8 |
| 16:37:56 | 0:18:01 | 5.0 | 5.1 | 30.2 | 6.1 | 14.2 | 97.8 | 98.3 | 97.9 | 97.3 | 98.4 | 97.9 | 97.7 | 100.6 | 106.4 | 133.1 | 116.7 | 75.9 | 87.8 | 100.6 | 674.0 | 451.3 | -0.7 |
| 16:39:56 | 0:20:01 | 3.2 | 3.3 | 30.2 | 5.2 | 12.1 | 97.8 | 98.3 | 97.9 | 97.2 | 98.4 | 97.9 | 97.7 | 101.8 | 107.7 | 132.9 | 116.7 | 75.8 | 87.0 | 100.6 | 674.0 | 451.3 | -0.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000124

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:41:56 | 0:22:01 | 2.2 | 2.3 | 30.2 | 4.7 | 11.0 | 97.9 | 98.4 | 98.1 | 97.2 | 98.5 | 98.2 | 97.7 | 100.7 | 104.0 | 132.8 | 116.4 | 75.6 | 85.9 | 100.5 | 674.0 | 451.3 | -0.8 |

POST EVACUATION(2) (Loop:1/7) SUMMARY 03/08/2015 22:41:32

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:42:32 | 0:22:32 | 2.0 | 2.1 | 30.2 | 4.7 | 11.0 | 97.9 | 98.4 | 98.1 | 97.2 | 98.5 | 98.2 | 97.6 | 99.4 | 101.0 | 132.7 | 116.4 | 75.6 | 85.5 | 100.5 | 674.0 | 451.3 | -0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.5 MAX TEMP: 100.8 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.8 MAX GAS TEMP: 077.2
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.6 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 075.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(1) (Loop:2/7) 03/08/2015 22:41:32

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:42:32 | 0:00:00 | 2.0 | 2.1 | 30.2 | 4.7 | 11.0 | 97.9 | 98.4 | 98.1 | 97.2 | 98.5 | 98.2 | 97.6 | 99.4 | 101.0 | 132.7 | 116.4 | 75.6 | 85.5 | 100.5 | 674.0 | 451.3 | -0.7 |
| 16:44:32 | 0:02:00 | 4.7 | 4.8 | 30.2 | 7.0 | 15.9 | 98.6 | 99.0 | 98.9 | 97.9 | 99.1 | 99.1 | 98.4 | 101.9 | 108.1 | 132.6 | 116.3 | 75.5 | 84.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 16:46:32 | 0:04:00 | 7.6 | 7.7 | 30.2 | 8.3 | 18.8 | 99.1 | 99.5 | 99.4 | 98.4 | 99.8 | 99.7 | 99.0 | 100.0 | 102.4 | 132.6 | 116.1 | 75.4 | 82.8 | 100.5 | 674.0 | 451.4 | -0.8 |
| 16:48:32 | 0:06:00 | 10.2 | 10.4 | 30.2 | 9.7 | 21.7 | 99.4 | 99.8 | 99.6 | 98.6 | 100.1 | 99.8 | 99.2 | 100.5 | 106.3 | 132.6 | 116.0 | 75.3 | 81.4 | 100.5 | 674.0 | 451.4 | -0.8 |
| 16:50:32 | 0:08:00 | 12.9 | 13.0 | 30.2 | 10.1 | 22.5 | 99.6 | 100.1 | 99.8 | 98.7 | 100.2 | 100.0 | 99.3 | 101.2 | 105.6 | 132.3 | 115.9 | 75.3 | 80.2 | 100.5 | 674.0 | 451.4 | -0.8 |
| 16:52:33 | 0:10:00 | 15.6 | 15.7 | 30.2 | 11.5 | 25.5 | 99.6 | 100.2 | 99.9 | 98.7 | 100.4 | 100.1 | 99.4 | 99.4 | 100.7 | 132.3 | 115.7 | 75.2 | 79.1 | 100.5 | 674.0 | 451.3 | -1.1 |
| 16:54:33 | 0:12:01 | 18.4 | 18.5 | 30.2 | 11.9 | 26.5 | 99.7 | 100.3 | 100.0 | 98.8 | 100.4 | 100.2 | 99.4 | 101.9 | 108.6 | 132.1 | 115.6 | 75.1 | 78.3 | 100.5 | 674.0 | 451.4 | -0.8 |
| 16:56:33 | 0:14:01 | 21.0 | 21.2 | 30.2 | 12.9 | 28.4 | 99.8 | 100.3 | 100.1 | 98.9 | 100.6 | 100.3 | 99.5 | 100.3 | 103.1 | 132.0 | 115.5 | 75.1 | 77.6 | 100.4 | 674.0 | 451.3 | -0.8 |
| 16:58:33 | 0:16:01 | 23.8 | 23.9 | 30.2 | 13.3 | 29.3 | 99.9 | 100.4 | 100.1 | 99.0 | 100.6 | 100.3 | 99.5 | 99.9 | 104.1 | 132.0 | 115.4 | 75.1 | 77.0 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:00:33 | 0:18:01 | 26.6 | 26.7 | 30.2 | 14.2 | 31.4 | 99.9 | 100.5 | 100.1 | 98.9 | 100.8 | 100.3 | 99.6 | 101.4 | 106.3 | 131.8 | 115.2 | 75.0 | 76.6 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:02:33 | 0:20:01 | 29.3 | 29.5 | 30.2 | 14.7 | 32.2 | 100.0 | 100.7 | 100.3 | 99.0 | 100.9 | 100.5 | 99.7 | 99.7 | 101.2 | 131.6 | 115.1 | 75.0 | 76.0 | 100.4 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(1) (Loop:2/7) SUMMARY 03/08/2015 23:01:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:02:34 | 0:20:01 | 29.3 | 29.5 | 30.2 | 14.7 | 32.2 | 100.0 | 100.7 | 100.3 | 99.0 | 100.9 | 100.5 | 99.7 | 99.7 | 101.1 | 131.7 | 115.1 | 75.0 | 76.2 | 100.4 | 674.0 | 451.3 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.9 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 132.8 MAX GAS TEMP: 075.6
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.6 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 131.6 MIN GAS TEMP: 075.0
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.4
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 115.1

POST EVACUATION(2) (Loop:2/7) 03/08/2015 23:01:34

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:02:34 | 0:00:00 | 29.3 | 29.5 | 30.2 | 14.7 | 32.2 | 100.0 | 100.7 | 100.3 | 99.0 | 100.9 | 100.5 | 99.7 | 99.7 | 101.1 | 131.7 | 115.1 | 75.0 | 76.2 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:04:34 | 0:02:00 | 26.4 | 26.5 | 30.2 | 13.8 | 31.0 | 99.2 | 99.7 | 99.2 | 98.6 | 99.9 | 99.4 | 99.2 | 100.8 | 106.5 | 131.4 | 115.0 | 75.0 | 83.0 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:06:34 | 0:04:00 | 23.7 | 23.9 | 30.2 | 12.4 | 28.0 | 99.0 | 99.5 | 99.0 | 98.5 | 99.7 | 99.2 | 99.1 | 101.7 | 107.0 | 131.4 | 114.8 | 75.0 | 85.4 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:08:34 | 0:06:00 | 21.1 | 21.2 | 30.2 | 11.9 | 27.2 | 98.8 | 99.3 | 98.8 | 98.3 | 99.5 | 99.1 | 99.0 | 100.6 | 103.6 | 131.3 | 114.7 | 75.0 | 86.6 | 100.5 | 674.0 | 451.3 | -0.7 |
| 17:10:34 | 0:08:00 | 18.4 | 18.5 | 30.2 | 11.1 | 25.1 | 98.8 | 99.2 | 98.8 | 98.3 | 99.4 | 98.9 | 98.8 | 99.6 | 100.9 | 131.2 | 114.6 | 75.0 | 87.4 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:12:34 | 0:10:00 | 15.6 | 15.8 | 30.2 | 9.7 | 22.2 | 98.6 | 99.0 | 98.6 | 98.1 | 99.1 | 98.7 | 98.7 | 100.7 | 106.3 | 131.0 | 114.5 | 75.0 | 87.9 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:14:34 | 0:12:01 | 12.9 | 13.1 | 30.2 | 9.2 | 21.2 | 98.4 | 98.9 | 98.4 | 97.9 | 99.1 | 98.7 | 98.6 | 101.8 | 107.4 | 131.1 | 114.3 | 75.0 | 88.1 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:16:34 | 0:14:01 | 10.3 | 10.4 | 30.2 | 7.9 | 18.2 | 98.3 | 98.7 | 98.3 | 97.8 | 98.8 | 98.5 | 98.4 | 100.5 | 103.4 | 130.9 | 114.2 | 74.9 | 88.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 17:18:34 | 0:16:01 | 7.6 | 7.7 | 30.2 | 6.5 | 15.1 | 98.1 | 98.5 | 98.1 | 97.6 | 98.7 | 98.3 | 98.1 | 99.5 | 100.8 | 130.7 | 114.1 | 74.9 | 88.1 | 100.3 | 674.0 | 451.4 | -0.8 |
| 17:20:35 | 0:18:01 | 5.0 | 5.1 | 30.2 | 5.2 | 12.0 | 97.9 | 98.4 | 98.0 | 97.4 | 98.5 | 98.1 | 97.8 | 101.0 | 107.4 | 130.7 | 116.0 | 74.9 | 88.0 | 100.3 | 674.0 | 451.3 | -0.8 |
| 17:22:35 | 0:20:01 | 3.2 | 3.3 | 30.2 | 3.8 | 8.9 | 97.9 | 98.4 | 98.1 | 97.3 | 98.5 | 98.2 | 97.7 | 101.8 | 107.2 | 130.7 | 116.7 | 74.9 | 87.3 | 100.3 | 674.0 | 451.3 | -0.7 |
| 17:24:35 | 0:22:01 | 2.2 | 2.3 | 30.2 | 3.8 | 8.9 | 97.9 | 98.4 | 98.2 | 97.2 | 98.5 | 98.3 | 97.7 | 100.6 | 103.6 | 130.4 | 116.7 | 74.9 | 86.1 | 100.4 | 674.0 | 451.3 | -0.8 |

POST EVACUATION(2) (Loop:2/7) SUMMARY 03/08/2015 23:24:00

| CYCLE | PHASE | PX-1 | PX-2 | PX-4 | CH | CALC. | AVG. | CH1 | CH2 | CH3 | CH1A | CH2A | CH3A | JR | JS | PRHTR | VAP | GAS | MNFLD | MNTR | EO | EO | GAS |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000125

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| TIME hh:mm:ss | TIME hh:mm:ss | PRESS (''HgA) | PRESS (''HgA) | PRESS (''HgA) | HUMID (mg/l) | HUMID (%RH) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | TEMP (°F) | DRM1 (Lbs.) | DRM2 (Lbs.) | CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:24:59 | 0:22:25 | 2.0 | 2.1 | 30.2 | 3.8 | 8.9 | 97.9 | 98.4 | 98.2 | 97.2 | 98.5 | 98.4 | 97.7 | 99.6 | 100.9 | 130.4 | 116.5 | 74.9 | 85.9 | 100.5 | 674.0 | 451.3 | -0.8 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 100.9 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 131.7 MAX GAS TEMP: 075.1
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.6 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 130.3 MIN GAS TEMP: 074.8
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(1) (Loop:3/7) 03/08/2015 23:24:00

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:24:59 | 0:00:00 | 2.0 | 2.1 | 30.2 | 3.8 | 8.9 | 97.9 | 98.4 | 98.2 | 97.2 | 98.5 | 98.4 | 97.7 | 99.6 | 100.9 | 130.4 | 116.5 | 74.9 | 85.9 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:26:59 | 0:02:00 | 4.7 | 4.8 | 30.2 | 5.6 | 12.8 | 98.7 | 99.0 | 99.1 | 97.9 | 99.2 | 99.2 | 98.4 | 101.5 | 108.3 | 130.3 | 116.4 | 74.9 | 84.7 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:29:00 | 0:04:00 | 7.5 | 7.6 | 30.2 | 7.0 | 15.7 | 99.2 | 99.5 | 99.5 | 98.4 | 99.8 | 99.8 | 99.0 | 100.9 | 104.8 | 130.2 | 116.2 | 74.8 | 83.2 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:31:00 | 0:06:00 | 10.1 | 10.2 | 30.2 | 7.9 | 17.5 | 99.5 | 99.9 | 99.8 | 98.7 | 100.1 | 100.0 | 99.3 | 99.3 | 101.2 | 129.9 | 116.1 | 74.8 | 81.8 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:33:00 | 0:08:00 | 13.0 | 13.1 | 30.2 | 9.2 | 20.5 | 99.6 | 100.1 | 99.9 | 98.8 | 100.3 | 100.1 | 99.4 | 102.0 | 108.3 | 130.0 | 116.0 | 74.9 | 80.6 | 100.5 | 674.0 | 451.3 | -0.7 |
| 17:35:00 | 0:10:00 | 15.6 | 15.8 | 30.2 | 9.7 | 21.5 | 99.8 | 100.3 | 100.1 | 98.8 | 100.4 | 100.3 | 99.4 | 100.2 | 102.6 | 129.8 | 115.9 | 74.8 | 79.5 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:37:00 | 0:12:01 | 18.5 | 18.6 | 30.2 | 10.1 | 22.4 | 99.8 | 100.3 | 100.1 | 98.8 | 100.4 | 100.3 | 99.4 | 100.4 | 105.7 | 129.6 | 115.7 | 74.8 | 78.6 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:39:00 | 0:14:01 | 21.2 | 21.3 | 30.2 | 11.1 | 24.4 | 99.8 | 100.4 | 100.2 | 98.9 | 100.6 | 100.4 | 99.6 | 101.3 | 105.9 | 129.6 | 115.6 | 74.8 | 77.9 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:41:00 | 0:16:01 | 23.9 | 24.0 | 30.2 | 11.9 | 26.3 | 99.9 | 100.5 | 100.2 | 99.0 | 100.8 | 100.5 | 99.7 | 99.7 | 101.1 | 129.6 | 115.4 | 74.8 | 77.3 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:43:00 | 0:18:01 | 26.5 | 26.6 | 30.2 | 11.9 | 26.2 | 100.0 | 100.6 | 100.3 | 99.1 | 100.8 | 100.5 | 99.7 | 101.5 | 108.3 | 129.4 | 115.3 | 74.8 | 76.7 | 100.4 | 674.0 | 451.4 | -0.8 |
| 17:45:00 | 0:20:01 | 29.2 | 29.4 | 30.2 | 12.4 | 27.2 | 100.1 | 100.7 | 100.4 | 99.1 | 100.9 | 100.6 | 99.7 | 100.7 | 104.1 | 129.4 | 115.2 | 74.7 | 76.3 | 100.3 | 674.0 | 451.4 | -0.7 |

AIR BACKFILL(1) (Loop:3/7) SUMMARY 03/08/2015 23:44:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:45:02 | 0:20:03 | 29.3 | 29.5 | 30.2 | 12.9 | 28.2 | 100.1 | 100.7 | 100.4 | 99.1 | 100.9 | 100.6 | 99.7 | 100.6 | 103.8 | 129.4 | 115.2 | 74.7 | 76.3 | 100.4 | 674.0 | 451.3 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 100.9 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 130.4 MAX GAS TEMP: 074.9
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.7 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.3 MIN GAS TEMP: 074.7
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.5
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 115.2

POST EVACUATION(2) (Loop:3/7) 03/08/2015 23:44:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:45:02 | 0:00:00 | 29.3 | 29.5 | 30.2 | 12.9 | 28.2 | 100.1 | 100.7 | 100.4 | 99.1 | 100.9 | 100.6 | 99.7 | 100.6 | 103.8 | 129.4 | 115.2 | 74.7 | 76.3 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:47:02 | 0:02:00 | 26.4 | 26.5 | 30.2 | 11.9 | 26.8 | 99.3 | 99.8 | 99.4 | 98.7 | 99.9 | 99.5 | 99.3 | 99.6 | 100.8 | 129.2 | 115.1 | 74.8 | 83.0 | 100.3 | 674.0 | 451.3 | -0.8 |
| 17:49:02 | 0:04:00 | 23.7 | 23.8 | 30.2 | 11.1 | 24.9 | 99.1 | 99.5 | 99.1 | 98.5 | 99.7 | 99.3 | 99.2 | 100.9 | 107.0 | 129.0 | 115.0 | 74.8 | 85.4 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:51:03 | 0:06:00 | 21.1 | 21.2 | 30.2 | 9.7 | 21.9 | 99.0 | 99.4 | 99.0 | 98.5 | 99.6 | 99.2 | 99.1 | 101.7 | 107.0 | 133.5 | 114.8 | 74.8 | 86.8 | 100.5 | 674.0 | 451.3 | -0.8 |
| 17:53:03 | 0:08:00 | 18.4 | 18.5 | 30.2 | 9.7 | 22.0 | 98.9 | 99.3 | 98.9 | 98.3 | 99.5 | 99.0 | 99.0 | 100.5 | 103.3 | 133.1 | 114.7 | 74.9 | 87.7 | 100.5 | 674.0 | 451.4 | -0.8 |
| 17:55:03 | 0:10:00 | 15.7 | 15.8 | 30.2 | 8.8 | 20.1 | 98.7 | 99.1 | 98.7 | 98.1 | 99.3 | 98.8 | 98.7 | 99.6 | 100.9 | 133.1 | 114.6 | 74.9 | 88.2 | 100.4 | 674.0 | 451.3 | -0.8 |
| 17:57:03 | 0:12:01 | 13.0 | 13.1 | 30.2 | 7.4 | 17.0 | 98.5 | 98.9 | 98.6 | 98.1 | 99.1 | 98.7 | 98.6 | 100.3 | 105.2 | 133.0 | 114.5 | 74.9 | 88.5 | 100.5 | 674.0 | 451.4 | -0.8 |
| 17:59:03 | 0:14:01 | 10.3 | 10.4 | 30.2 | 7.0 | 16.0 | 98.4 | 98.8 | 98.4 | 97.9 | 99.0 | 98.6 | 98.4 | 102.0 | 108.0 | 132.8 | 114.3 | 74.9 | 88.6 | 100.4 | 674.0 | 451.3 | -0.8 |
| 18:01:03 | 0:16:01 | 7.6 | 7.7 | 30.2 | 5.6 | 13.0 | 98.2 | 98.6 | 98.2 | 97.7 | 98.8 | 98.4 | 98.2 | 100.8 | 104.2 | 132.6 | 114.2 | 74.9 | 88.5 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:03:03 | 0:18:01 | 5.0 | 5.1 | 30.2 | 4.3 | 9.9 | 98.0 | 98.4 | 98.1 | 97.4 | 98.5 | 98.2 | 97.8 | 99.9 | 101.6 | 132.6 | 114.0 | 74.9 | 88.3 | 100.3 | 674.0 | 451.4 | -0.8 |
| 18:05:03 | 0:20:01 | 3.2 | 3.3 | 30.2 | 3.3 | 7.8 | 97.9 | 98.3 | 98.1 | 97.2 | 98.5 | 98.2 | 97.7 | 99.6 | 102.7 | 132.4 | 116.7 | 74.9 | 87.6 | 100.7 | 674.0 | 451.4 | -0.8 |
| 18:07:03 | 0:22:01 | 2.1 | 2.2 | 30.2 | 2.9 | 6.7 | 98.0 | 98.4 | 98.3 | 97.2 | 98.5 | 98.4 | 97.7 | 101.9 | 108.5 | 132.3 | 116.7 | 75.0 | 86.4 | 100.6 | 674.0 | 451.4 | -0.8 |

POST EVACUATION(2) (Loop:3/7) SUMMARY 03/09/2015 00:06:28

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:07:27 | 0:22:24 | 2.0 | 2.1 | 30.2 | 2.9 | 6.7 | 98.1 | 98.5 | 98.4 | 97.3 | 98.5 | 98.4 | 97.7 | 101.3 | 105.4 | 132.3 | 116.7 | 75.0 | 86.2 | 100.6 | 674.0 | 451.3 | -0.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000126

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 101.0 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.6 MAX GAS TEMP: 075.0
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.6 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.0 MIN GAS TEMP: 074.7
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.8
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(1) (Loop:4/7) 03/09/2015 00:06:28

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:07:27 | 0:00:00 | 2.0 | 2.1 | 30.2 | 2.9 | 6.7 | 98.1 | 98.5 | 98.4 | 97.3 | 98.5 | 98.4 | 97.7 | 101.3 | 105.4 | 132.3 | 116.7 | 75.0 | 86.2 | 100.6 | 674.0 | 451.3 | -0.8 |
| 18:09:27 | 0:02:00 | 4.7 | 4.8 | 30.2 | 5.2 | 11.8 | 98.7 | 99.1 | 99.1 | 97.9 | 99.2 | 99.3 | 98.4 | 99.7 | 101.3 | 132.2 | 116.5 | 74.9 | 84.9 | 100.6 | 674.0 | 451.3 | -0.8 |
| 18:11:27 | 0:04:00 | 7.6 | 7.7 | 30.2 | 6.1 | 13.6 | 99.3 | 99.7 | 99.6 | 98.4 | 99.8 | 99.8 | 99.0 | 101.4 | 108.3 | 132.1 | 116.4 | 75.0 | 83.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:13:27 | 0:06:00 | 10.2 | 10.3 | 30.2 | 7.0 | 15.5 | 99.6 | 100.0 | 99.9 | 98.7 | 100.1 | 100.0 | 99.4 | 101.0 | 104.8 | 132.0 | 116.2 | 74.9 | 81.9 | 100.6 | 674.0 | 451.3 | -0.8 |
| 18:15:27 | 0:08:00 | 12.9 | 13.0 | 30.2 | 7.9 | 17.5 | 99.7 | 100.2 | 100.0 | 98.8 | 100.3 | 100.2 | 99.4 | 99.4 | 101.0 | 131.9 | 116.1 | 74.9 | 80.7 | 100.5 | 674.0 | 451.3 | -0.7 |
| 18:17:27 | 0:10:00 | 15.7 | 15.8 | 30.2 | 8.8 | 19.4 | 99.8 | 100.3 | 100.1 | 98.8 | 100.4 | 100.2 | 99.4 | 101.9 | 108.0 | 131.8 | 116.0 | 74.9 | 79.5 | 100.5 | 674.0 | 451.4 | -0.8 |
| 18:19:27 | 0:12:01 | 18.4 | 18.6 | 30.2 | 9.2 | 20.4 | 99.8 | 100.3 | 100.1 | 98.8 | 100.4 | 100.3 | 99.5 | 100.0 | 102.2 | 131.7 | 115.8 | 74.8 | 78.6 | 100.4 | 674.0 | 451.3 | -0.8 |
| 18:21:28 | 0:14:01 | 21.2 | 21.3 | 30.2 | 9.7 | 21.4 | 99.8 | 100.3 | 100.2 | 98.9 | 100.6 | 100.4 | 99.6 | 100.7 | 106.7 | 131.6 | 115.6 | 74.7 | 77.8 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:23:28 | 0:16:01 | 23.8 | 24.0 | 30.2 | 10.1 | 22.3 | 100.0 | 100.5 | 100.3 | 99.0 | 100.7 | 100.5 | 99.7 | 101.1 | 105.4 | 131.6 | 115.5 | 74.7 | 77.2 | 100.6 | 674.0 | 451.3 | -0.8 |
| 18:25:28 | 0:18:01 | 26.6 | 26.7 | 30.2 | 10.6 | 23.2 | 100.1 | 100.7 | 100.4 | 99.1 | 100.9 | 100.6 | 99.8 | 99.5 | 100.7 | 131.4 | 115.5 | 74.8 | 76.6 | 100.5 | 674.0 | 451.4 | -0.8 |
| 18:27:28 | 0:20:01 | 29.3 | 29.5 | 30.2 | 11.4 | 24.9 | 100.1 | 100.8 | 100.4 | 99.1 | 100.9 | 100.7 | 99.8 | 102.0 | 108.6 | 131.1 | 115.3 | 74.7 | 75.9 | 100.3 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(1) (Loop:4/7) SUMMARY 03/09/2015 00:26:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:27:33 | 0:20:06 | 29.3 | 29.5 | 30.2 | 11.5 | 25.1 | 100.1 | 100.8 | 100.5 | 99.1 | 101.0 | 100.7 | 99.8 | 102.0 | 108.1 | 131.2 | 115.3 | 74.7 | 75.9 | 100.4 | 674.0 | 451.4 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 101.0 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 132.4 MAX GAS TEMP: 075.0
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.6 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 131.1 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: -000.1 EO USED CYCLE:023.1 MIN VAP TEMP: 115.3

POST EVACUATION(2) (Loop:4/7) 03/09/2015 00:26:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:27:33 | 0:00:00 | 29.3 | 29.5 | 30.2 | 11.5 | 25.1 | 100.1 | 100.8 | 100.5 | 99.1 | 101.0 | 100.7 | 99.8 | 102.0 | 108.1 | 131.2 | 115.3 | 74.7 | 75.9 | 100.4 | 674.0 | 451.4 | -0.8 |
| 18:29:33 | 0:02:00 | 26.3 | 26.5 | 30.2 | 10.1 | 22.7 | 99.3 | 99.9 | 99.4 | 98.6 | 100.0 | 99.6 | 99.3 | 100.7 | 104.0 | 131.2 | 115.2 | 74.7 | 82.8 | 100.4 | 674.0 | 451.3 | -0.8 |
| 18:31:33 | 0:04:00 | 23.7 | 23.9 | 30.2 | 9.7 | 21.8 | 99.1 | 99.6 | 99.2 | 98.5 | 99.8 | 99.4 | 99.2 | 99.8 | 101.3 | 130.9 | 115.1 | 74.7 | 85.2 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:33:33 | 0:06:00 | 21.0 | 21.2 | 30.2 | 8.8 | 19.9 | 99.0 | 99.4 | 99.0 | 98.4 | 99.6 | 99.2 | 99.1 | 100.0 | 104.2 | 130.9 | 114.9 | 74.7 | 86.5 | 100.4 | 674.0 | 451.3 | -0.8 |
| 18:35:33 | 0:08:00 | 18.3 | 18.5 | 30.2 | 8.3 | 18.9 | 98.9 | 99.3 | 98.9 | 98.3 | 99.5 | 99.1 | 99.0 | 101.9 | 108.1 | 130.7 | 114.8 | 74.7 | 87.3 | 100.3 | 674.0 | 451.[illegible] | -1.0 |
| 18:37:33 | 0:10:00 | 15.6 | 15.8 | 30.2 | 7.4 | 16.9 | 98.8 | 99.2 | 98.8 | 98.2 | 99.3 | 99.0 | 98.8 | 101.0 | 104.8 | 130.7 | 114.7 | 74.7 | 87.9 | 100.4 | 674.0 | 451.3 | -0.8 |
| 18:39:33 | 0:12:01 | 13.0 | 13.1 | 30.2 | 7.0 | 15.9 | 98.6 | 99.0 | 98.7 | 98.1 | 99.2 | 98.8 | 98.7 | 100.1 | 102.1 | 130.4 | 114.6 | 74.7 | 88.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 18:41:34 | 0:14:01 | 10.2 | 10.3 | 30.2 | 6.0 | 13.9 | 98.4 | 98.9 | 98.5 | 97.9 | 99.0 | 98.6 | 98.4 | 99.4 | 100.6 | 130.2 | 114.5 | 74.7 | 88.4 | 100.3 | 674.0 | 451.3 | -0.8 |
| 18:43:34 | 0:16:01 | 7.6 | 7.7 | 30.2 | 5.2 | 11.9 | 98.2 | 98.7 | 98.3 | 97.7 | 98.8 | 98.5 | 98.2 | 101.5 | 108.0 | 130.3 | 114.4 | 74.8 | 88.4 | 100.4 | 674.0 | 451.4 | -0.8 |
| 18:45:34 | 0:18:01 | 5.0 | 5.1 | 30.2 | 3.8 | 8.8 | 98.1 | 98.5 | 98.2 | 97.5 | 98.6 | 98.3 | 97.9 | 101.5 | 106.2 | 130.0 | 114.2 | 74.8 | 88.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 18:47:34 | 0:20:01 | 3.2 | 3.3 | 30.2 | 2.9 | 6.7 | 98.0 | 98.5 | 98.2 | 97.3 | 98.5 | 98.3 | 97.8 | 100.3 | 103.0 | 129.9 | 114.1 | 74.8 | 87.6 | 100.3 | 674.0 | 451.3 | -0.8 |
| 18:49:34 | 0:22:01 | 2.1 | 2.2 | 30.2 | 2.9 | 6.7 | 98.0 | 98.5 | 98.3 | 97.2 | 98.6 | 98.5 | 97.8 | 99.5 | 100.8 | 129.8 | 116.2 | 74.7 | 86.5 | 100.8 | 674.0 | 451.4 | -0.8 |

POST EVACUATION(2) (Loop:4/7) SUMMARY 03/09/2015 00:48:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:49:54 | 0:32:21 | 2.0 | 2.1 | 30.2 | 2.4 | 5.7 | 98.1 | 98.5 | 98.4 | 97.3 | 98.6 | 98.5 | 97.8 | 100.6 | 106.0 | 129.9 | 116.7 | 74.8 | 86.3 | 100.[illegible] | 674.0 | 451.3 | -0.7 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 101.0 DRM1 START: 674.0 DRM2 START: 451.4 MAX PRE TEMP: 131.2 MAX GAS TEMP: 074.9



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000127

END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.7 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 129.8 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.1 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(1) (Loop:5/7) 03/09/2015 00:48:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:49:54 | 0:00:00 | 2.0 | 2.1 | 30.2 | 2.4 | 5.7 | 98.1 | 98.5 | 98.4 | 97.3 | 98.6 | 98.5 | 97.8 | 100.6 | 106.0 | 129.9 | 116.7 | 74.8 | 86.3 | 100.6 | 674.0 | 451.3 | -0.7 |
| 18:51:54 | 0:02:00 | 4.7 | 4.8 | 30.2 | 4.3 | 9.7 | 98.8 | 99.1 | 99.2 | 97.9 | 99.3 | 99.4 | 98.6 | 101.5 | 106.2 | 129.6 | 116.7 | 74.8 | 85.0 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:53:54 | 0:04:00 | 7.5 | 7.7 | 30.2 | 5.6 | 12.6 | 99.3 | 99.7 | 99.7 | 98.5 | 99.9 | 99.9 | 99.1 | 99.8 | 101.6 | 129.5 | 116.4 | 74.8 | 83.6 | 100.5 | 674.0 | 451.4 | -0.8 |
| 18:55:54 | 0:06:00 | 10.2 | 10.3 | 30.2 | 6.1 | 13.5 | 99.6 | 100.0 | 99.9 | 98.8 | 100.2 | 100.2 | 99.5 | 101.1 | 107.5 | 129.6 | 116.3 | 74.8 | 82.2 | 100.6 | 674.0 | 451.4 | -0.8 |
| 18:57:54 | 0:08:00 | 12.9 | 13.0 | 30.2 | 7.0 | 15.4 | 99.8 | 100.3 | 100.1 | 98.9 | 100.4 | 100.3 | 99.5 | 101.0 | 104.9 | 129.5 | 116.3 | 74.8 | 80.9 | 100.5 | 674.0 | 451.3 | -0.8 |
| 18:59:54 | 0:10:00 | 15.7 | 15.8 | 30.2 | 7.4 | 16.4 | 99.8 | 100.4 | 100.2 | 98.9 | 100.4 | 100.4 | 99.6 | 99.4 | 100.5 | 129.4 | 116.1 | 74.9 | 79.9 | 100.5 | 674.0 | 451.4 | -0.8 |
| 19:01:54 | 0:12:01 | 18.3 | 18.5 | 30.2 | 7.9 | 17.4 | 99.8 | 100.4 | 100.2 | 98.9 | 100.6 | 100.5 | 99.6 | 102.0 | 108.4 | 129.2 | 115.9 | 74.8 | 79.0 | 100.6 | 674.0 | 451.3 | -0.8 |
| 19:03:54 | 0:14:01 | 21.2 | 21.3 | 30.2 | 8.8 | 19.3 | 100.0 | 100.5 | 100.3 | 99.0 | 100.7 | 100.5 | 99.7 | 100.3 | 102.9 | 129.1 | 115.8 | 74.9 | 78.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 19:05:55 | 0:16:01 | 23.8 | 24.0 | 30.2 | 9.2 | 20.3 | 100.0 | 100.5 | 100.3 | 99.1 | 100.8 | 100.6 | 99.8 | 99.7 | 103.3 | 128.9 | 115.7 | 74.9 | 77.7 | 100.6 | 674.0 | 451.3 | -0.8 |
| 19:07:55 | 0:18:01 | 26.5 | 26.6 | 30.2 | 9.7 | 21.2 | 100.1 | 100.7 | 100.4 | 99.2 | 100.9 | 100.7 | 99.9 | 101.5 | 106.6 | 128.8 | 115.5 | 74.9 | 77.1 | 100.5 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(1) (Loop:5/7) SUMMARY 03/09/2015 01:08:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:09:54 | 8:20:00 | 29.3 | 29.5 | 30.2 | 9.7 | 21.2 | 100.1 | 100.8 | 100.5 | 99.1 | 101.0 | 100.8 | 99.9 | 99.7 | 101.3 | 128.7 | 115.4 | 74.9 | 76.6 | 100.6 | 674.0 | 451.3 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 101.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 129.9 MAX GAS TEMP: 074.9
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.7 DRM1 END: 674.0 DRM2 END: 451.4 MIN PRE TEMP: 128.6 MIN GAS TEMP: 074.7
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 115.4

POST EVACUATION(2) (Loop:5/7) 03/09/2015 01:08:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:09:54 | 0:00:00 | 29.3 | 29.5 | 30.2 | 9.7 | 21.2 | 100.1 | 100.8 | 100.5 | 99.1 | 101.0 | 100.8 | 99.9 | 99.7 | 101.3 | 128.7 | 115.4 | 74.9 | 76.6 | 100.6 | 674.0 | 451.3 | -0.8 |
| 19:11:54 | 0:02:00 | 26.4 | 26.5 | 30.2 | 9.2 | 20.6 | 99.4 | 99.9 | 99.5 | 98.8 | 100.0 | 99.7 | 99.5 | 100.2 | 105.2 | 133.5 | 115.3 | 74.9 | 83.0 | 100.5 | 674.0 | 451.3 | -0.8 |
| 19:13:54 | 0:04:00 | 23.7 | 23.8 | 30.2 | 8.3 | 18.7 | 99.2 | 99.6 | 99.2 | 98.6 | 99.8 | 99.4 | 99.3 | 101.9 | 107.8 | 133.3 | 115.2 | 74.9 | 85.2 | 100.5 | 674.0 | 451.3 | -0.8 |
| 19:15:54 | 0:06:00 | 21.0 | 21.2 | 30.2 | 7.9 | 17.8 | 99.1 | 99.5 | 99.1 | 98.5 | 99.6 | 99.3 | 99.2 | 100.7 | 104.1 | 133.3 | 115.0 | 74.8 | 86.4 | 100.4 | 674.0 | 451.3 | -0.8 |
| 19:17:55 | 0:08:00 | 18.4 | 18.5 | 30.2 | 7.0 | 15.8 | 99.0 | 99.4 | 99.0 | 98.4 | 99.5 | 99.2 | 99.0 | 99.8 | 101.4 | 133.1 | 114.9 | 74.7 | 87.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 19:19:55 | 0:10:00 | 15.6 | 15.8 | 30.2 | 6.5 | 14.8 | 98.8 | 99.2 | 98.9 | 98.2 | 99.3 | 99.0 | 98.8 | 100.1 | 104.9 | 133.1 | 114.7 | 74.7 | 87.7 | 100.4 | 674.0 | 451.4 | -0.8 |
| 19:21:55 | 0:12:01 | 12.9 | 13.1 | 30.2 | 5.7 | 13.0 | 98.7 | 99.1 | 98.7 | 98.1 | 99.2 | 98.9 | 98.7 | 102.0 | 108.3 | 132.9 | 114.7 | 74.8 | 88.0 | 100.4 | 674.0 | 451.3 | -0.8 |
| 19:23:55 | 0:14:01 | 10.3 | 10.4 | 30.2 | 5.6 | 12.9 | 98.5 | 99.0 | 98.6 | 97.9 | 99.1 | 98.7 | 98.5 | 101.0 | 104.7 | 132.8 | 114.5 | 74.8 | 88.1 | 100.5 | 674.0 | 451.4 | -0.8 |
| 19:25:55 | 0:16:01 | 7.6 | 7.7 | 30.2 | 4.2 | 9.8 | 98.3 | 98.8 | 98.4 | 97.8 | 98.8 | 98.5 | 98.3 | 99.9 | 101.7 | 132.7 | 114.4 | 74.8 | 88.0 | 100.3 | 674.0 | 451. | -0.8 |
| 19:27:55 | 0:18:01 | 5.0 | 5.1 | 30.2 | 3.3 | 7.8 | 98.1 | 98.5 | 98.2 | 97.5 | 98.6 | 98.4 | 97.9 | 99.5 | 102.3 | 132.4 | 114.3 | 74.7 | 87.9 | 100.3 | 674.0 | 451.3 | -0.7 |
| 19:29:55 | 0:20:01 | 3.1 | 3.2 | 30.2 | 2.4 | 5.7 | 98.0 | 98.5 | 98.2 | 97.4 | 98.6 | 98.4 | 97.9 | 102.0 | 108.4 | 132.3 | 114.2 | 74.7 | 87.2 | 100.3 | 674.0 | 451.3 | -0.7 |
| 19:31:55 | 0:22:01 | 2.1 | 2.2 | 30.2 | 2.4 | 5.7 | 98.1 | 98.5 | 98.4 | 97.4 | 98.6 | 98.6 | 97.9 | 101.1 | 105.0 | 132.2 | 114.1 | 74.7 | 86.1 | 100.2 | 674.0 | 451.3 | -0.8 |

POST EVACUATION(2) (Loop:5/7) SUMMARY 03/09/2015 01:31:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:32:13 | 0:22:13 | 2.0 | 2.1 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.4 | 97.3 | 98.6 | 98.6 | 97.8 | 100.3 | 102.6 | 132.1 | 114.0 | 74.7 | 85.9 | 100.2 | 674. | 451.3 | -0.8 |

START PRESS: 0029.3 MAX PRESS: 0029.3 MAX TEMP: 101.0 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.7 MAX GAS TEMP: 074.9
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.4 MIN PRE TEMP: 128.6 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.4
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 114.0



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000128

CYCLE NO: 0000000116

STERILIZER NUMBER: 0001033693

AIR BACKFILL(1) (Loop:6/7) 03/09/2015 01:31:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:32:13 | 0:00:00 | 2.0 | 2.1 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.4 | 97.3 | 98.6 | 98.6 | 97.8 | 100.3 | 102.6 | 132.1 | 114.0 | 74.7 | 85.9 | 100.2 | 674.0 | 451.3 | -0.8 |
| 19:34:13 | 0:02:00 | 4.8 | 4.9 | 30.2 | 3.8 | 8.6 | 98.9 | 99.2 | 99.3 | 98.1 | 99.3 | 99.5 | 98.6 | 99.5 | 102.6 | 132.0 | 113.9 | 74.7 | 84.6 | 100.2 | 674.0 | 451.3 | -0.8 |
| 19:36:13 | 0:04:00 | 7.5 | 7.6 | 30.2 | 5.2 | 11.5 | 99.4 | 99.8 | 99.8 | 98.6 | 99.9 | 100.0 | 99.2 | 101.9 | 107.7 | 132.0 | 113.8 | 74.7 | 83.2 | 100.1 | 674.0 | 451.3 | -0.8 |
| 19:38:13 | 0:06:00 | 10.1 | 10.2 | 30.2 | 5.6 | 12.4 | 99.7 | 100.1 | 100.1 | 98.9 | 100.3 | 100.2 | 99.5 | 100.2 | 102.4 | 131.8 | 113.7 | 74.7 | 81.8 | 100.1 | 674.0 | 451.3 | -0.8 |
| 19:40:13 | 0:08:00 | 13.0 | 13.1 | 30.2 | 6.1 | 13.4 | 99.8 | 100.3 | 100.1 | 98.9 | 100.4 | 100.3 | 99.6 | 100.5 | 105.9 | 131.8 | 113.5 | 74.7 | 80.6 | 100.2 | 674.0 | 451.3 | -0.8 |
| 19:42:13 | 0:10:01 | 15.8 | 15.9 | 30.2 | 6.5 | 14.4 | 100.0 | 100.5 | 100.3 | 99.0 | 100.6 | 100.5 | 99.6 | 101.3 | 105.7 | 131.8 | 113.5 | 74.7 | 79.6 | 100.1 | 674.0 | 451.3 | -0.8 |
| 19:44:13 | 0:12:01 | 18.3 | 18.5 | 30.2 | 7.4 | 16.2 | 100.0 | 100.5 | 100.4 | 99.1 | 100.7 | 100.6 | 99.7 | 99.5 | 100.8 | 131.6 | 113.3 | 74.7 | 78.7 | 100.1 | 674.0 | 451.3 | -0.8 |
| 19:46:14 | 0:14:01 | 21.0 | 21.2 | 30.2 | 8.3 | 18.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.8 | 100.6 | 99.8 | 101.8 | 108.5 | 131.4 | 113.2 | 74.7 | 78.0 | 100.0 | 674.0 | 451.3 | -0.8 |
| 19:48:14 | 0:16:01 | 23.8 | 24.0 | 30.2 | 8.3 | 18.2 | 100.2 | 100.8 | 100.5 | 99.2 | 100.9 | 100.7 | 99.9 | 100.5 | 103.5 | 131.5 | 113.1 | 74.7 | 77.4 | 100.1 | 674.0 | 451.3 | -0.8 |
| 19:50:14 | 0:18:01 | 26.6 | 26.7 | 30.2 | 9.2 | 20.2 | 100.2 | 100.8 | 100.5 | 99.2 | 101.0 | 100.8 | 100.0 | 99.6 | 103.2 | 131.2 | 112.9 | 74.7 | 76.8 | 100.0 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(1) (Loop:6/7) SUMMARY 03/09/2015 01:51:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:52:13 | 0:20:00 | 29.3 | 29.5 | 30.2 | 9.7 | 21.1 | 100.3 | 101.0 | 100.7 | 99.3 | 101.1 | 100.9 | 99.9 | 101.7 | 107.0 | 131.2 | 112.8 | 74.7 | 76.3 | 100.0 | 674.0 | 451.3 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 101.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 132.2 MAX GAS TEMP: 074.8
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 131.2 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.1
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 112.8

POST EVACUATION(2) (Loop:6/7) 03/09/2015 01:51:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:52:13 | 0:00:00 | 29.3 | 29.5 | 30.2 | 9.7 | 21.1 | 100.3 | 101.0 | 100.7 | 99.3 | 101.1 | 100.9 | 99.9 | 101.7 | 107.0 | 131.2 | 112.8 | 74.7 | 76.3 | 100.0 | 674.0 | 451.3 | -0.8 |
| 19:54:13 | 0:02:00 | 26.3 | 26.5 | 30.2 | 8.8 | 19.6 | 99.5 | 100.0 | 99.7 | 98.9 | 100.2 | 99.8 | 99.6 | 100.3 | 102.6 | 131.1 | 116.8 | 74.7 | 83.1 | 100.4 | 674.0 | 451.3 | -0.8 |
| 19:56:13 | 0:04:00 | 23.7 | 23.8 | 30.2 | 7.9 | 17.7 | 99.3 | 99.7 | 99.4 | 98.7 | 99.9 | 99.6 | 99.4 | 99.5 | 100.6 | 131.0 | 116.7 | 74.7 | 85.4 | 100.3 | 674.0 | 451.3 | -0.7 |
| 19:58:13 | 0:06:00 | 21.0 | 21.2 | 30.2 | 7.4 | 16.7 | 99.1 | 99.5 | 99.2 | 98.6 | 99.8 | 99.4 | 99.3 | 101.2 | 107.5 | 130.9 | 116.7 | 74.7 | 86.7 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:00:13 | 0:08:00 | 18.3 | 18.4 | 30.2 | 6.5 | 14.7 | 99.0 | 99.4 | 99.1 | 98.5 | 99.6 | 99.3 | 99.1 | 101.8 | 107.3 | 130.9 | 116.4 | 74.7 | 87.6 | 100.4 | 674.0 | 451.3 | -0.7 |
| 20:02:14 | 0:10:00 | 15.6 | 15.8 | 30.2 | 6.1 | 13.8 | 98.9 | 99.3 | 98.9 | 98.3 | 99.5 | 99.1 | 98.8 | 100.8 | 104.1 | 130.6 | 116.4 | 74.7 | 88.0 | 100.3 | 674.0 | 451.3 | -0.8 |
| 20:04:14 | 0:12:01 | 12.9 | 13.0 | 30.2 | 5.6 | 12.8 | 98.7 | 99.1 | 98.8 | 98.1 | 99.3 | 99.0 | 98.8 | 99.7 | 101.2 | 130.5 | 116.2 | 74.7 | 88.3 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:06:14 | 0:14:01 | 10.2 | 10.3 | 30.2 | 5.2 | 11.8 | 98.6 | 99.0 | 98.7 | 98.1 | 99.1 | 98.8 | 98.6 | 100.1 | 104.5 | 130.5 | 116.1 | 74.8 | 88.5 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:08:14 | 0:16:01 | 7.6 | 7.7 | 30.2 | 3.8 | 8.8 | 98.4 | 98.8 | 98.5 | 97.8 | 99.0 | 98.7 | 98.4 | 101.9 | 108.0 | 130.4 | 115.9 | 74.7 | 88.5 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:10:14 | 0:18:01 | 5.0 | 5.1 | 30.2 | 2.9 | 6.7 | 98.1 | 98.6 | 98.3 | 97.5 | 98.6 | 98.4 | 97.9 | 100.9 | 104.5 | 130.3 | 115.8 | 74.8 | 88.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:12:14 | 0:20:01 | 3.1 | 3.2 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.4 | 97.5 | 98.6 | 98.4 | 97.9 | 99.8 | 101.3 | 130.2 | 115.7 | 74.7 | 87.6 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:14:14 | 0:22:01 | 2.1 | 2.2 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.4 | 97.4 | 98.7 | 98.6 | 97.8 | 100.0 | 104.2 | 130.1 | 115.5 | 74.7 | 86.5 | 100.5 | 674.0 | 451.3 | -0.8 |

POST EVACUATION(2) (Loop:6/7) SUMMARY 03/09/2015 02:13:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:14:29 | 0:22:16 | 2.0 | 2.1 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.5 | 97.4 | 98.7 | 98.6 | 97.8 | 101.7 | 108.4 | 130.0 | 115.5 | 74.7 | 86.3 | 100.5 | 674.0 | 451.3 | -0.8 |

START PRESS: 0029.3 MAX PRESS: 0029.3 MAX TEMP: 101.2 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 131.3 MAX GAS TEMP: 074.8
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.4 MIN PRE TEMP: 130.0 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.9
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 112.8

AIR BACKFILL(1) (Loop:7/7) 03/09/2015 02:13:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000129

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:14:29 | 0:00:00 | 2.0 | 2.1 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.5 | 97.4 | 98.7 | 98.6 | 97.8 | 101.7 | 108.4 | 130.0 | 115.5 | 74.7 | 86.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:16:29 | 0:02:00 | 4.8 | 4.9 | 30.2 | 3.8 | 8.6 | 98.9 | 99.2 | 99.3 | 98.1 | 99.4 | 99.5 | 98.7 | 100.8 | 104.2 | 130.0 | 115.4 | 74.8 | 85.1 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:18:29 | 0:04:00 | 7.5 | 7.6 | 30.2 | 4.2 | 9.5 | 99.5 | 99.8 | 99.9 | 98.6 | 99.9 | 100.0 | 99.2 | 99.4 | 101.3 | 129.8 | 115.2 | 74.8 | 83.6 | 100.3 | 674.0 | 451.4 | -0.6 |
| 20:20:29 | 0:06:00 | 10.1 | 10.2 | 30.2 | 5.6 | 12.4 | 99.8 | 100.2 | 100.1 | 99.0 | 100.3 | 100.3 | 99.5 | 102.0 | 108.2 | 129.4 | 115.1 | 74.8 | 82.3 | 100.4 | 674.0 | 451.3 | -0.8 |
| 20:22:29 | 0:08:00 | 13.0 | 13.2 | 30.2 | 5.6 | 12.4 | 99.9 | 100.4 | 100.2 | 99.1 | 100.6 | 100.4 | 99.6 | 100.2 | 102.7 | 129.4 | 115.0 | 74.8 | 81.0 | 100.4 | 674.0 | 451.3 | -0.8 |
| 20:24:29 | 0:10:00 | 15.6 | 15.8 | 30.2 | 6.1 | 13.3 | 100.0 | 100.5 | 100.3 | 99.0 | 100.6 | 100.5 | 99.6 | 99.5 | 102.8 | 129.3 | 114.8 | 74.8 | 79.9 | 100.3 | 674.0 | 451.3 | -0.8 |
| 20:26:29 | 0:12:00 | 18.5 | 18.6 | 30.2 | 6.5 | 14.3 | 100.0 | 100.5 | 100.4 | 99.1 | 100.8 | 100.6 | 99.7 | 101.8 | 107.5 | 129.3 | 114.7 | 74.8 | 79.1 | 100.4 | 674.0 | 451.3 | -0.8 |
| 20:28:29 | 0:14:01 | 21.2 | 21.3 | 30.2 | 7.4 | 16.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.8 | 100.7 | 99.8 | 100.1 | 102.2 | 129.1 | 114.6 | 74.8 | 78.4 | 100.4 | 674.0 | 451.4 | -0.8 |
| 20:30:30 | 0:16:01 | 23.9 | 24.1 | 30.2 | 7.4 | 16.2 | 100.1 | 100.7 | 100.5 | 99.2 | 100.9 | 100.7 | 99.9 | 99.9 | 104.0 | 129.0 | 114.4 | 74.8 | 77.7 | 100.3 | 674.0 | 451.3 | -0.8 |
| 20:32:30 | 0:18:01 | 26.5 | 26.6 | 30.2 | 8.3 | 18.1 | 100.3 | 100.9 | 100.6 | 99.3 | 101.1 | 100.8 | 100.0 | 101.7 | 106.8 | 128.9 | 114.3 | 74.9 | 77.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 20:34:30 | 0:20:01 | 29.3 | 29.4 | 30.2 | 8.8 | 19.2 | 100.2 | 100.9 | 100.6 | 99.2 | 101.1 | 100.8 | 99.9 | 99.8 | 101.6 | 128.8 | 114.2 | 74.8 | 76.8 | 100.3 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(1) (Loop:7/7) SUMMARY 03/09/2015 02:33:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:34:33 | 0:20:04 | 29.3 | 29.5 | 30.2 | 8.8 | 19.1 | 100.3 | 101.0 | 100.7 | 99.3 | 101.1 | 100.8 | 99.9 | 99.7 | 101.3 | 128.8 | 114.2 | 74.9 | 76.8 | 100.3 | 674.0 | 451.3 | -0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 101.2 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 130.1 MAX GAS TEMP: 074.9
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 128.8 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.5
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 114.1

POST EVACUATION(2) (Loop:7/7) 03/09/2015 02:33:33

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:34:33 | 0:00:00 | 29.3 | 29.5 | 30.2 | 8.8 | 19.1 | 100.3 | 101.0 | 100.7 | 99.3 | 101.1 | 100.8 | 99.9 | 99.7 | 101.3 | 128.8 | 114.2 | 74.9 | 76.8 | 100.3 | 674.0 | 451.3 | -0.7 |
| 20:36:33 | 0:02:00 | 26.3 | 26.5 | 30.2 | 7.9 | 17.5 | 99.5 | 100.0 | 99.6 | 98.9 | 100.2 | 99.8 | 99.5 | 100.2 | 105.0 | 133.5 | 114.0 | 74.8 | 83.3 | 100.3 | 674.0 | 451.3 | -0.8 |
| 20:38:33 | 0:04:00 | 23.7 | 23.8 | 30.2 | 7.0 | 15.6 | 99.3 | 99.7 | 99.4 | 98.7 | 99.9 | 99.5 | 99.4 | 101.9 | 107.9 | 133.2 | 116.7 | 74.9 | 85.5 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:40:33 | 0:06:00 | 21.0 | 21.1 | 30.2 | 6.5 | 14.7 | 99.1 | 99.5 | 99.2 | 98.6 | 99.8 | 99.4 | 99.3 | 100.9 | 104.3 | 133.2 | 116.7 | 74.9 | 86.8 | 100.6 | 674.0 | 451.3 | -0.8 |
| 20:42:33 | 0:08:00 | 18.3 | 18.5 | 30.2 | 6.1 | 13.7 | 99.0 | 99.4 | 99.0 | 98.4 | 99.6 | 99.3 | 99.1 | 99.9 | 101.4 | 132.9 | 116.5 | 74.9 | 87.6 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:44:33 | 0:10:00 | 15.6 | 15.7 | 30.2 | 5.6 | 12.7 | 98.9 | 99.3 | 98.9 | 98.3 | 99.4 | 99.1 | 98.8 | 99.6 | 102.8 | 132.8 | 116.3 | 74.9 | 88.0 | 100.6 | 674.0 | 451.4 | -0.8 |
| 20:46:33 | 0:12:01 | 12.9 | 13.1 | 30.2 | 5.2 | 11.7 | 98.8 | 99.2 | 98.8 | 98.2 | 99.3 | 99.0 | 98.8 | 102.0 | 108.2 | 132.8 | 116.1 | 74.8 | 88.1 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:48:34 | 0:14:01 | 10.2 | 10.4 | 30.2 | 4.3 | 9.8 | 98.5 | 98.9 | 98.6 | 97.9 | 99.1 | 98.8 | 98.6 | 100.9 | 104.7 | 132.6 | 116.0 | 74.8 | 88.2 | 100.6 | 674.0 | 451.3 | -0.8 |
| 20:50:34 | 0:16:01 | 7.5 | 7.7 | 30.2 | 3.8 | 8.7 | 98.4 | 98.8 | 98.5 | 97.8 | 98.8 | 98.6 | 98.3 | 99.9 | 101.6 | 132.6 | 116.0 | 74.9 | 88.1 | 100.5 | 674.0 | 451.4 | -0.7 |
| 20:52:34 | 0:18:01 | 5.0 | 5.1 | 30.2 | 2.9 | 6.7 | 98.2 | 98.6 | 98.3 | 97.6 | 98.7 | 98.4 | 97.9 | 99.9 | 103.9 | 132.5 | 115.8 | 74.9 | 88.0 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:54:34 | 0:20:01 | 3.1 | 3.2 | 30.2 | 2.0 | 4.6 | 98.1 | 98.5 | 98.3 | 97.4 | 98.6 | 98.4 | 97.9 | 102.0 | 108.1 | 132.3 | 115.6 | 74.8 | 87.3 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:56:34 | 0:22:01 | 2.1 | 2.2 | 30.2 | 1.5 | 3.5 | 98.1 | 98.5 | 98.4 | 97.4 | 98.7 | 98.6 | 97.9 | 100.8 | 104.2 | 132.0 | 115.5 | 74.8 | 86.2 | 100.4 | 674.0 | 451.3 | -0.8 |

POST EVACUATION(2) (Loop:7/7) SUMMARY 03/09/2015 02:55:48

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:56:48 | 0:22:16 | 2.0 | 2.1 | 30.2 | 1.5 | 3.6 | 98.2 | 98.6 | 98.5 | 97.5 | 98.7 | 98.6 | 97.9 | 100.2 | 102.4 | 132.1 | 115.5 | 74.8 | 86.0 | 100.4 | 674.0 | 451.3 | -0.8 |

START PRESS: 0029.3 MAX PRESS: 0029.4 MAX TEMP: 101.1 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 133.6 MAX GAS TEMP: 074.9
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 097.8 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 128.8 MIN GAS TEMP: 074.7
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.7
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 113.9

AIR BACKFILL(2) 03/09/2015 02:55:48

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:56:48 | 0:00:00 | 2.0 | 2.1 | 30.2 | 1.5 | 3.6 | 98.2 | 98.6 | 98.5 | 97.5 | 98.7 | 98.6 | 97.9 | 100.2 | 102.4 | 132.1 | 115.5 | 74.8 | 86.0 | 100.4 | 674.0 | 451.3 | -0.8 |
| 20:57:48 | 0:01:00 | 3.4 | 3.5 | 30.2 | 2.9 | 6.7 | 98.5 | 98.9 | 98.9 | 97.8 | 99.0 | 99.0 | 98.2 | 101.9 | 108.0 | 132.0 | 115.4 | 74.8 | 85.4 | 100.5 | 674.0 | 451.3 | -0.8 |
| 20:58:48 | 0:02:00 | 4.8 | 5.0 | 30.2 | 3.3 | 7.6 | 98.9 | 99.2 | 99.3 | 98.1 | 99.3 | 99.5 | 98.6 | 99.5 | 102.4 | 131.9 | 115.4 | 74.8 | 84.7 | 100.4 | 674.0 | 451.3 | -0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000130

C. CLE NO: 0000000116

STERILIZER NUMBER: 0001033693

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:59:48 | 0:03:00 | 6.2 | 6.3 | 30.2 | 3.8 | 8.5 | 99.2 | 99.5 | 99.7 | 98.4 | 99.8 | 99.8 | 99.0 | 100.3 | 102.8 | 131.9 | 115.3 | 74.8 | 84.0 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:00:48 | 0:04:00 | 7.4 | 7.6 | 30.2 | 4.3 | 9.5 | 99.5 | 99.8 | 99.9 | 98.7 | 100.0 | 100.0 | 99.3 | 101.9 | 107.8 | 131.9 | 115.2 | 74.8 | 83.3 | 100.4 | 674.0 | 451.3 | -0.8 |
| 21:01:49 | 0:05:00 | 8.9 | 9.1 | 30.2 | 4.2 | 9.4 | 99.6 | 100.0 | 100.0 | 98.9 | 100.2 | 100.2 | 99.5 | 99.8 | 104.1 | 131.7 | 115.2 | 74.7 | 82.6 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:02:49 | 0:06:01 | 10.1 | 10.2 | 30.2 | 4.7 | 10.4 | 99.8 | 100.2 | 100.1 | 99.0 | 100.4 | 100.3 | 99.6 | 100.1 | 102.3 | 131.7 | 115.1 | 74.7 | 81.8 | 100.3 | 674.0 | 451.4 | -0.8 |
| 21:03:49 | 0:07:01 | 11.6 | 11.8 | 30.2 | 5.2 | 11.4 | 99.8 | 100.3 | 100.1 | 99.0 | 100.4 | 100.4 | 99.7 | 101.5 | 106.6 | 131.7 | 115.0 | 74.7 | 81.2 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:04:49 | 0:08:01 | 12.9 | 13.0 | 30.2 | 5.6 | 12.3 | 99.9 | 100.4 | 100.2 | 99.1 | 100.6 | 100.4 | 99.7 | 100.7 | 106.7 | 131.5 | 115.0 | 74.7 | 80.6 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:05:49 | 0:09:01 | 14.3 | 14.5 | 30.2 | 5.6 | 12.3 | 100.0 | 100.5 | 100.3 | 99.1 | 100.7 | 100.5 | 99.7 | 99.7 | 101.4 | 131.5 | 114.9 | 74.7 | 80.0 | 100.3 | 674.0 | 451.4 | -0.8 |
| 21:06:49 | 0:10:01 | 15.7 | 15.8 | 30.2 | 5.6 | 12.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.7 | 100.6 | 99.7 | 101.2 | 105.4 | 131.6 | 114.8 | 74.7 | 79.6 | 100.4 | 674.0 | 451.3 | -0.8 |
| 21:07:49 | 0:11:01 | 17.0 | 17.2 | 30.2 | 6.1 | 13.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.8 | 100.6 | 99.7 | 101.5 | 108.4 | 131.6 | 114.8 | 74.7 | 79.1 | 100.2 | 674.0 | 451.3 | -0.8 |
| 21:08:49 | 0:12:01 | 18.5 | 18.6 | 30.2 | 6.1 | 13.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.8 | 100.6 | 99.7 | 99.5 | 100.6 | 131.4 | 114.7 | 74.7 | 78.6 | 100.2 | 674.0 | 451.4 | -0.8 |
| 21:09:49 | 0:13:01 | 19.9 | 20.0 | 30.2 | 6.5 | 14.3 | 100.0 | 100.6 | 100.4 | 99.1 | 100.9 | 100.7 | 99.8 | 100.7 | 104.1 | 131.4 | 114.6 | 74.7 | 78.3 | 100.2 | 674.0 | 451.3 | -0.8 |
| 21:10:49 | 0:14:01 | 21.2 | 21.4 | 30.2 | 6.5 | 14.3 | 100.1 | 100.6 | 100.4 | 99.2 | 100.9 | 100.6 | 99.8 | 101.9 | 108.6 | 131.4 | 114.6 | 74.6 | 77.9 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:11:50 | 0:15:01 | 22.6 | 22.7 | 30.2 | 7.0 | 15.2 | 100.2 | 100.8 | 100.5 | 99.3 | 100.9 | 100.6 | 99.9 | 99.4 | 101.6 | 131.3 | 114.5 | 74.7 | 77.6 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:12:50 | 0:16:02 | 23.9 | 24.0 | 30.2 | 7.0 | 15.2 | 100.2 | 100.8 | 100.6 | 99.3 | 101.1 | 100.8 | 100.0 | 100.4 | 103.1 | 131.2 | 114.5 | 74.7 | 77.3 | 100.3 | 674.0 | 451.3 | -0.8 |
| 21:13:50 | 0:17:02 | 25.3 | 25.4 | 30.2 | 7.4 | 16.1 | 100.3 | 100.9 | 100.6 | 99.4 | 101.1 | 100.8 | 100.0 | 101.9 | 107.9 | 131.2 | 114.4 | 74.7 | 77.0 | 100.2 | 674.0 | 451.4 | -0.7 |
| 21:14:50 | 0:18:02 | 26.5 | 26.7 | 30.2 | 7.4 | 16.1 | 100.4 | 101.0 | 100.7 | 99.4 | 101.1 | 100.8 | 100.0 | 99.8 | 103.6 | 131.2 | 114.4 | 74.7 | 76.8 | 100.2 | 674.0 | 451.3 | -0.8 |
| 21:15:50 | 0:19:02 | 28.0 | 28.2 | 30.2 | 7.9 | 17.1 | 100.4 | 101.1 | 100.7 | 99.4 | 101.2 | 100.9 | 100.1 | 100.1 | 102.2 | 131.1 | 114.3 | 74.7 | 76.4 | 100.2 | 674.0 | 451.3 | -0.8 |

AIR BACKFILL(2) SUMMARY 03/09/2015 03:15:47

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:16:47 | 0:19:59 | 29.3 | 29.5 | 30.2 | 7.9 | 17.1 | 100.4 | 101.1 | 100.8 | 99.4 | 101.3 | 101.0 | 100.0 | 101.8 | 107.4 | 131.0 | 114.2 | 74.7 | 76.3 | 100.2 | 674.0 | 451.3 | -0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.3 MAX TEMP: 101.3 DRM1 START: 674.0 DRM2 START: 451.3 MAX PRE TEMP: 132.2 MAX GAS TEMP: 074.9
END PRESS: 0029.3 MIN PRESS: 0002.0 MIN TEMP: 097.9 DRM1 END: 674.0 DRM2 END: 451.3 MIN PRE TEMP: 131.0 MIN GAS TEMP: 074.6
PRESS CHANGE: 027.3 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.5
EO USED PHASE: 000.0 EO USED CYCLE:023.1 MIN VAP TEMP: 114.2

END OF CYCLE 03/09/2015 03:15:47

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:16:47 | 0:00:00 | 29.3 | 29.5 | 30.2 | 7.9 | 17.1 | 100.4 | 101.1 | 100.8 | 99.4 | 101.3 | 101.0 | 100.0 | 101.8 | 107.4 | 131.0 | 114.2 | 74.7 | 76.3 | 100.2 | 674.0 | 451.3 | -0.8 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000131

# Aeration Validation

## Set "C"

## Sterilization Cycle# ZA500136

# Final Report

COVIDIEN

| .ycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| ZA500136 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/11/2015 | 6:02 | 3/11/2015 | 18:30 |

**Test Description:** North Haven (CT) Parametric Rel Combo Cycle- 6 pallet

| | Specification | Result | Units |
|---|---|---|---|
| - | | | |
| - | | | |
| Chamber | | A | |
| - | | | |
| LOADING | | | |
| load time | 0.05-1.00 | 0.21 | hrs.min |
| - | | | |
| CONDITIONING | | | |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-60 | 23 | minutes |
| nitrogen inject | 11.5-12.5 | 11.9 | inHgA |
| nitrogen inject elapsed time | 5-30 | 10 | minutes |
| vacuum #2 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #2 elapsed time | 5-30 | 9 | minutes |
| time to conditioning | 30-180 | 81 | minutes |
| chamber temperature-min | 80-110 | 95.4 | °F |
| chamber temperature-max | 80-110 | 97.7 | °F |
| chamber moisture-min | 10.0-39.7 | 38.1 | mg/L |
| chamber moisture-max | 10.0-39.7 | 38.6 | mg/L |
| conditioning dwell time | 90-180 | 100 | minutes |
| - | | | |
| CHARGE | | | |
| initial vacuum | 1.5-2.5 | 2.0 | inHgA |
| nitrogen dilution pressure | 4.5-5.5 | 4.6 | inHgA |
| EtO inject pressure | 13.3-14.3 | 14.1 | inHgA |
| EtO inject elapsed time | 5-60 | 26 | minutes |
| EtO gas weight used | 17-29 | 29 | lbs |
| nitrogen blanket pressure | 25.5-27.0 | 26.1 | inHgA |
| nitrogen inject elapsed time | 5-60 | 38 | minutes |
| - | | | |
| EXPOSURE | | | |
| chamber pressure-min | 25.5-27.0 | 26.0 | inHgA |
| chamber pressure-max | 25.5-27.0 | 26.1 | inHgA |
| chamber temperature-min | 88-110 | 96.4 | °F |
| chamber temperature-max | 88-110 | 98.5 | °F |
| time in specification | 10.30-11.00 | 11:00 | hrs.min |
| total exposure time | 10.30-11.00 | 11:00 | hrs.min |
| gas concentration-min | 300-525 | 454.0 | mg/L |
| gas concentration-max | 300-525 | 488.8 | mg/L |
| - | | | |
| EXHAUST | | | |
| vacuum #1 | 4.5-5.5 | 4.9 | inHgA |
| vacuum #1 elapsed time | 15-90 | 32 | minutes |
| - | | | |
| NITROGEN WASH | | | |
| nitrogen inject pressure | 28.0-29.0 | 28.4 | inHgA |
| nitrogen inject elapsed time | 15-45 | 18 | minutes |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-45 | 25 | minutes |
| - | | | |
| AIR WASHES | | | |
| dry air inject #1 pressure | 28.0-30.0 | 29.0 | inHgA |
| dry air inject #1 time | 15-45 | 19 | minutes |
| vacuum #1 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #1 elapsed time | 15-45 | 22 | minutes |
| dry air inject #2 pressure | 28.0-30.0 | 29.0 | inHgA |
| dry air inject #2 time | 15-45 | 19 | minutes |
| vacuum #2 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #2 elapsed time | 15-45 | 22 | minutes |

## Final Report

| Cycle Number | Manufacturing Sites | Shipment Number | Sterilization Facility | Sterilization Method |
|---|---|---|---|---|
| .A500136 | | Dunnage Load | Covidien-North Haven | NH Ethylene Oxide |

| Cycle Type | Approval Status | Date Sterilization Completed | Time Sterilization | Date Aeration Completed | Time Aeration Completed |
|---|---|---|---|---|---|
| Combo | Accept | 3/11/2015 | 6:02 | 3/11/2015 | 18:30 |

| | | | |
|---|---|---|---|
| dry air inject #3 pressure | 28.0-30.0 | 29.0 | inHgA |
| dry air inject #3 time | 15-45 | 19 | minutes |
| vacuum #3 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #3 elapsed time | 15-45 | 22 | minutes |
| dry air inject #4 pressure | 28.0-30.0 | 28.9 | inHgA |
| dry air inject #4 time | 15-45 | 19 | minutes |
| vacuum #4 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #4 elapsed time | 15-45 | 22 | minutes |
| dry air inject #5 pressure | 28.0-30.0 | 29.0 | inHgA |
| dry air inject #5 time | 15-45 | 19 | minutes |
| vacuum #5 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #5 elapsed time | 15-45 | 22 | minutes |
| dry air inject #6 pressure | 28.0-30.0 | 29.0 | inHgA |
| dry air inject #6 time | 15-45 | 19 | minutes |
| vacuum #6 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #6 elapsed time | 15-45 | 22 | minutes |
| dry air inject #7 pressure | 28.0-30.0 | 28.9 | inHgA |
| dry air inject #7 time | 15-45 | 19 | minutes |
| vacuum #7 | 1.5-2.5 | 2.0 | inHgA |
| vacuum #7 elapsed time | 15-45 | 22 | minutes |
| - | | | |
| FINAL AIR BREAK | | | |
| dry air inject pressure | 28.0-30.0 | 28.9 | inHgA |
| dry air inject time | 15-45 | 19 | minutes |
| - | | | |
| PRIMARY AERATION | | | |
| elapsed time | 12.00-48.00 | 12:05 | hrs.min |
| room temperature-min | 95-115 | 101 | °F |
| room temperature-max | 95-115 | 108 | °F |
| circulator running | Yes | Yes | |
| - | | | |
| CHAMBER CYCLE SPEC. | | | |
| circulator running | Yes | Yes | |
| max chamber temperature | 0-110 | 100.8 | °F |

**Results Entered By:** Robert Blake- 4/1/2015 09:18

**Approved By:** NIcole Prego- 4/2/2015 10:26

**Confirmed By:** NIcole Prego - 4/2/2015 10:26

**Data Entry Notes**

Validation Cycle: STE14-028 & STE14-029.
Aeration Sample Set C: 1X & Set A: 2 of 3X.
System timestamps from ETC cycle record do not reflect daylight savings time adjustment.

4/1/2015 9:19:45 AM
thcg\robert.blake

COVIDIEN

COPY

NORTH HAVEN PLANT
STERILIZATION RUN RECORD

| CYCLE # : | ELIGIBILITY TIME: N/A DATE: N/A |
|---|---|
| ZA500136 | CYCLE LOAD TIME: 08:20 DATE: 03-10-15 |

(CIRCLE ONE) 311

**MECHANICAL (110) TROCAR (210) COMBO (310) CUSTOM KIT (410)** CYCLE NUMBER TYPE VERIFIED BY: CM

STARTING PCR TEMP: N/A STARTING PCR TIME: N/A START PCR DATE: N/A

PCR MIN RH: N/A PCR MIN TEMP: N/A

PCR MAX RH: N/A PCR MAX TEMP: N/A

PALLET PRODUCT LOTS VERIFIED LOAD BY: GB

| ITEM | SHOP ORDER | SHIPMENT / LOT | QUANTITY | CASES / BINS | MATERIAL |
|---|---|---|---|---|---|
| | | 5013520 | | | |
| STE 14-028-029 | | | | | |
| (Set C: 1X) | | | | | |
| (Set A: 2 of 3X) | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |
| | | | | | |

GB

CYCLE START TIME: 08:41 CYCLE START DATE: 03-10-15 ETC RUN #: 111

CYCLE END TIME: 06:02 CYCLE END DATE: 03-11-15 PRIMARY START TIME: 06:25

PRIMARY END TIME: 18:30 PRIMARY END DATE: 3/11/15 MIN TEMP: 101 MAX TEMP: 108

SECONDARY END TIME: N/A SECONDARY END DATE: N/A MIN TEMP: N/A MAX TEMP: N/A

REMARKS: N/A

Technician Review: Gabriel Bonilla Management Review:

COVIDIEN
60 MIDDLETOWN AVE
NORTH HAVEN, CT
06473
203-492-5000 [T]
203-492-6398 [F]

```
*****************************************************
*                                                   *
*        COVIDIEN                                   *
*                                                   *
*****************************************************
```

CHAMBER 103369-2

DATE: 03/10/2015
TIME: 7:41:59 AM

CYCLE_NUMBER: 311  Last Modification Date/Time: 3/5/2015 9:38:00 AM
CYCLE COUNTER NUMBER: 00000111

LOAD NUMBER 1: ZA500136
LOAD NUMBER 2: 5013520
LOAD NUMBER 3: STE14-028-029
LOAD NUMBER 4: (SET C: 1X)
LOAD NUMBER 5: (SET A: 2 of 3X)
LOAD NUMBER 6:

OPERATOR ID NUMBER: 00001089

| | |
|---|---|
| CYCLE TYPE | : EtO |
| Test Vacuum | : Yes |
| Nitrogen Blanket | : Yes |
| Gas Makeup | : N2 |
| Aeration | : No |

| | |
|---|---|
| TEMPERATURE UNIT | : °F |
| PRESURE UNIT | : ''HgA |
| WEIGHT UNIT | : Lbs. |

PHASE 01 STANDBY

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Jacket Start Differential | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 10.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Pounds of EtO To Start | : 50.0 Lbs. |
| Abort Temperature | : 140.0 °F |
| Abort Pressure | : 36.0 ''HgA |
| Diff Temp | : 3.0 °F |
| Steam Valve Duty Cycle | : 2.0 % |
| Internal Recirculation | : YES |
| Door Crack Time | : 00:05:00 |

PHASE 02 INITIAL EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 18.0 °F |
| Vaporizer High Temperature Warning | : 9.0 °F |
| Vaporizer Low Temperature Alarm | : 18.0 °F |
| Vaporizer Low Temperature Warning | : 9.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.[illegible] ''HgA |
| Evacuation Slow Increment Alarm | : 0.[illegible] ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:00:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000136

PHASE 03 STABILIZATION

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 00:01:00 |
| Print Interval | : 00:01:00 |

PHASE 05 INITIAL N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 12.0 ''HgA |
| Injection Pressure Increment Per Minute | : 1.0 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:30:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 11.5 ''HgA |
| Final Pressure Maximum Level | : 12.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 04 LEAK CHECK

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Vacuum Leak Level Alarm | : 0.5 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 00:05:00 |
| Print Interval | : 00:01:00 |

PHASE 06 INITIAL EVACUATION(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:05:00 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000137

PHASE 07 HUMIDIFICATION(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.2 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| End Humidity Low Limit | : 22.7 mg/l |
| End Humidity High Limit | : 66.6 mg/l |
| Cycle Time to Event Minimum | : 01:00:00 |
| Cycle Time to Event Maximum | : 01:30:00 |

PHASE 09 INITIAL EVACUATION(3) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:15:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Maximum | : 00:30:00 |

PHASE 08 HUMIDIFICATION DWELL(1) Humidity Control:Pressure Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Humidity Level | : 3.1 ''HgA |
| Internal Recirculation | : YES |
| Phase Time | : 01:40:00 |
| Print Interval | : 00:01:00 |
| Humidity Low Limit | : 22.7 mg/l |
| Humidity High Limit | : 66.6 mg/l |
| Low Temperature Minimum | : 107.0 °F |
| High Temperature Maximum | : 131.0 °F |
| Phase Time Minimum | : 00:08:00 |
| Phase Time Maximum | : 00:15:00 |

PHASE 10 INITIAL N2 WASH(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Initial N2 Wash Level | : 4.6 ''HgA |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:15:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:00:01 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000138

| | |
|---|---|
| Phase Time Minimum | : 00:00:01 |
| Phase Time Maximum | : 00:15:00 |

PHASE 11 STERILANT INJECTION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Pressure | : 14.2 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 13.3 ''HgA |
| Final Pressure Maximum Level | : 14.3 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |
| Gas Used Minimum Weight | : 15.0 Lbs. |
| Gas Used Maximum Weight | : 40.0 Lbs. |

PHASE 13 EXPOSURE(1)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

| | |
|---|---|
| Phase Time Maximum | : 00:15:00 |

PHASE 12 N2 BLANKET(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Nitrogen Blanket Pressure | : 26.3 ''HgA |
| Injection Pressure Increment Per Minute | : 0.4 ''HgA |
| Injection Fast Increment Alarm | : 0.7 ''HgA |
| Injection Slow Increment Alarm | : 0.7 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 25.5 ''HgA |
| Final Pressure Maximum Level | : 27.0 ''HgA |
| Phase Time Minimum | : 00:05:00 |
| Phase Time Maximum | : 01:00:00 |

PHASE 14 EXPOSURE(2)

| | |
|---|---|
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 98.0 °F |
| Chamber High Temperature Alarm | : 12.0 °F |
| Chamber High Temperature Warning | : 7.0 °F |
| Chamber Low Temperature Alarm | : 10.0 °F |
| Chamber Low Temperature Warning | : 5.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Gas Makeup Differential Pressure | : 0.5 ''HgA |
| Maximum Gas Makeups | : 30 |
| Exposure Pressure Offset | : 0.5 ''HgA |
| High Pressure Warning | : 0.6 ''HgA |
| Low Pressure Warning | : 0.6 ''HgA |
| High Pressure Alarm | : 0.8 ''HgA |
| Low Pressure Alarm | : 0.8 ''HgA |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000139

| | |
|---|---|
| Internal Recirculation | : YES |
| Phase Time | : 01:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 650.0 mg/l |
| Phase Time Minimum | : 01:00:00 |
| Phase Time Maximum | : 01:15:00 |
| Time In Specification Minimum | : 01:00:00 |
| Time In Specification Maximum | : 01:15:00 |

PHASE 15 STERILANT REMOVAL Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Sterilant Removal Vacuum Level | : 5.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 0.8 ''HgA |
| Evacuation Fast Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Increment Alarm | : 0.7 ''HgA |
| Evacuation Slow Rate Stop Level | : 7.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 01:30:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 4.5 ''HgA |
| Final Pressure Maximum Level | : 5.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 01:30:00 |

PHASE 17 POST EVACUATION(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Internal Recirculation | : YES |
| Phase Time | : 10:00:00 |
| Print Interval | : 00:01:00 |
| Minimum Pressure Level | : 25.5 ''HgA |
| Maximum Pressure Level | : 27.0 ''HgA |
| Low Temperature Minimum | : 90.0 °F |
| High Temperature Maximum | : 110.0 °F |
| Low Gas Concentration Minimum | : 300.0 mg/l |
| High Gas Concentration Maximum | : 525.0 mg/l |
| Phase Time Minimum | : 09:30:00 |
| Phase Time Maximum | : 10:00:00 |
| Time In Specification Minimum | : 09:30:00 |
| Time In Specification Maximum | : 10:00:00 |

PHASE 16 POST N2 WASH(1) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post N2 Wash Level | : 28.5 ''HgA |
| Injection Pressure Increment Per Minute | : 1.4 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.0 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 18 AIR BACKFILL(1) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.4 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000140

| | |
|---|---|
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:01:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 19 POST EVACUATION(2) (Loop:1 Count:7) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Vaporizer Temperature | : 115.0 °F |
| Vaporizer High Temperature Alarm | : 20.0 °F |
| Vaporizer High Temperature Warning | : 10.0 °F |
| Vaporizer Low Temperature Alarm | : 20.0 °F |
| Vaporizer Low Temperature Warning | : 10.0 °F |
| Preheater Temperature | : 130.0 °F |
| Preheater High Temperature Alarm | : 20.0 °F |
| Preheater High Temperature Warning | : 10.0 °F |
| Preheater Low Temperature Alarm | : 20.0 °F |
| Preheater Low Temperature Warning | : 10.0 °F |
| Post Evacuation Level | : 2.0 ''HgA |
| Evacuation Pressure Reduction Per Minute | : 1.5 ''HgA |
| Evacuation Fast Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Increment Alarm | : 0.8 ''HgA |
| Evacuation Slow Rate Stop Level | : 5.0 ''HgA |
| Print Interval | : 00:02:00 |
| Maximum Phase Time | : 00:45:00 |
| Internal Recirculation | : YES |
| Final Pressure Minimum Level | : 1.5 ''HgA |
| Final Pressure Maximum Level | : 2.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 21 END OF CYCLE

| | |
|---|---|
| Jacket Temperature | : 105.0 °F |
| Jacket Offset | : 5.0 °F |
| Internal Recirculation | : YES |

| | |
|---|---|
| Print Interval | : 00:02:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

PHASE 20 AIR BACKFILL(2) Rate Control:Use Rate Control

| | |
|---|---|
| Jacket Temperature | : 100.0 °F |
| Jacket Offset | : 5.0 °F |
| Chamber Temperature | : 93.0 °F |
| Chamber High Temperature Alarm | : 17.0 °F |
| Chamber High Temperature Warning | : 12.0 °F |
| Chamber Low Temperature Alarm | : 13.0 °F |
| Chamber Low Temperature Warning | : 8.0 °F |
| Injection Pressure Increment Per Minute | : 1.5 ''HgA |
| Injection Fast Increment Alarm | : 0.8 ''HgA |
| Injection Slow Increment Alarm | : 0.8 ''HgA |
| Internal Recirculation | : YES |
| Maximum Phase Time | : 00:45:00 |
| Print Interval | : 00:01:00 |
| Final Pressure Minimum Level | : 28.0 ''HgA |
| Final Pressure Maximum Level | : 29.5 ''HgA |
| Phase Time Minimum | : 00:15:00 |
| Phase Time Maximum | : 00:45:00 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000141

**********

INITIAL EVACUATION(1) 03/10/2015 07:41:59

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:00:00 | 0:00:00 | 30.8 | 30.7 | 30.4 | 29.5 | 77.3 | 93.8 | 94.1 | 92.6 | 94.9 | 94.4 | 92.5 | 93.5 | 105.9 | 114.1 | 129.0 | 117.2 | 76.0 | 77.8 | 109.4 | 669.6 | 387.3 | 0.7 |
| 0:01:00 | 0:01:00 | 29.1 | 29.0 | 30.4 | 29.0 | 76.7 | 93.6 | 93.8 | 92.3 | 94.7 | 94.0 | 92.1 | 93.4 | 105.3 | 112.3 | 128.9 | 117.9 | 76.0 | 81.6 | 108.2 | 669.6 | 387.2 | 0.7 |
| 0:02:00 | 0:02:00 | 27.8 | 27.7 | 30.4 | 29.0 | 76.7 | 93.6 | 93.8 | 92.3 | 94.7 | 94.1 | 92.1 | 93.4 | 104.9 | 110.8 | 133.2 | 117.9 | 76.0 | 83.4 | 108.2 | 669.6 | 387.3 | 0.7 |
| 0:03:00 | 0:03:00 | 26.5 | 26.4 | 30.4 | 29.0 | 76.7 | 93.6 | 93.8 | 92.3 | 94.7 | 94.1 | 92.1 | 93.4 | 104.6 | 109.7 | 133.4 | 118.0 | 76.0 | 84.5 | 108.2 | 669.6 | 387.3 | 0.7 |
| 0:04:00 | 0:04:00 | 25.1 | 25.0 | 30.4 | 28.1 | 74.3 | 93.6 | 93.8 | 92.4 | 94.7 | 94.1 | 92.2 | 93.4 | 104.3 | 109.0 | 133.1 | 117.8 | 76.0 | 85.3 | 108.2 | 669.6 | 387.3 | 0.7 |
| 0:05:00 | 0:05:00 | 23.8 | 23.7 | 30.4 | 28.1 | 74.1 | 93.7 | 93.9 | 92.5 | 94.7 | 94.2 | 92.3 | 93.4 | 104.2 | 109.0 | 133.3 | 117.8 | 76.0 | 86.0 | 108.3 | 669.6 | 387.3 | 0.8 |
| 0:06:01 | 0:06:00 | 22.5 | 22.4 | 30.4 | 27.7 | 72.7 | 93.8 | 94.0 | 92.6 | 94.8 | 94.3 | 92.4 | 93.5 | 104.1 | 109.9 | 133.3 | 117.7 | 76.0 | 86.5 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:07:01 | 0:07:01 | 21.1 | 21.0 | 30.4 | 27.2 | 71.4 | 93.8 | 94.0 | 92.7 | 94.8 | 94.4 | 92.6 | 93.5 | 104.3 | 110.9 | 133.3 | 117.6 | 76.0 | 86.8 | 108.3 | 669.6 | 387.2 | 0.7 |
| 0:08:01 | 0:08:01 | 19.8 | 19.7 | 30.4 | 27.2 | 71.2 | 93.9 | 94.1 | 92.8 | 94.9 | 94.4 | 92.7 | 93.6 | 104.6 | 111.7 | 133.3 | 117.5 | 76.0 | 87.2 | 108.3 | 669.6 | 387.2 | 0.7 |
| 0:09:01 | 0:09:01 | 18.5 | 18.4 | 30.4 | 26.8 | 70.0 | 93.9 | 94.2 | 92.8 | 94.9 | 94.6 | 92.7 | 93.7 | 104.6 | 112.0 | 133.1 | 117.5 | 76.0 | 87.4 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:10:01 | 0:10:01 | 17.1 | 17.0 | 30.4 | 26.3 | 68.6 | 94.0 | 94.2 | 92.9 | 95.0 | 94.6 | 92.8 | 93.7 | 104.7 | 112.0 | 133.2 | 117.4 | 76.0 | 87.6 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:11:01 | 0:11:01 | 15.8 | 15.7 | 30.4 | 25.9 | 67.2 | 94.1 | 94.3 | 93.1 | 95.1 | 94.7 | 92.9 | 93.8 | 104.7 | 112.0 | 133.1 | 117.3 | 76.0 | 87.8 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:12:01 | 0:12:01 | 14.4 | 14.3 | 30.4 | 25.9 | 67.1 | 94.2 | 94.4 | 93.1 | 95.2 | 94.8 | 93.0 | 93.9 | 104.7 | 112.0 | 133.1 | 117.2 | 76.0 | 87.9 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:13:01 | 0:13:01 | 13.1 | 13.0 | 30.4 | 25.9 | 66.9 | 94.3 | 94.5 | 93.2 | 95.2 | 94.9 | 93.1 | 93.9 | 104.6 | 111.6 | 133.0 | 117.1 | 75.9 | 88.0 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:14:01 | 0:14:01 | 11.7 | 11.6 | 30.4 | 24.9 | 64.4 | 94.4 | 94.6 | 93.2 | 95.3 | 94.9 | 93.1 | 94.0 | 104.4 | 110.8 | 132.9 | 117.1 | 76.0 | 88.0 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:15:01 | 0:15:01 | 10.4 | 10.3 | 30.4 | 25.0 | 64.4 | 94.4 | 94.6 | 93.2 | 95.4 | 95.1 | 93.2 | 94.1 | 104.3 | 110.3 | 132.9 | 117.0 | 76.0 | 88.1 | 108.3 | 669.6 | 387.2 | 0.7 |
| 0:16:02 | 0:16:02 | 9.0 | 9.0 | 30.4 | 24.5 | 63.0 | 94.5 | 94.7 | 93.3 | 95.5 | 95.2 | 93.3 | 94.2 | 104.2 | 109.6 | 132.9 | 116.9 | 76.0 | 88.1 | 108.4 | 669.6 | 387.2 | 0.7 |
| 0:17:02 | 0:17:02 | 7.7 | 7.6 | 30.4 | 24.0 | 61.7 | 94.6 | 94.9 | 93.4 | 95.6 | 95.3 | 93.4 | 94.3 | 104.1 | 108.6 | 132.8 | 116.9 | 76.0 | 88.1 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:18:02 | 0:18:02 | 6.4 | 6.3 | 30.4 | 23.6 | 60.5 | 94.6 | 94.9 | 93.3 | 95.6 | 95.3 | 93.4 | 94.3 | 104.2 | 108.2 | 132.7 | 116.7 | 75.9 | 88.1 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:19:02 | 0:19:02 | 5.1 | 5.1 | 30.4 | 23.6 | 60.2 | 94.8 | 95.1 | 93.5 | 95.7 | 95.5 | 93.5 | 94.4 | 104.3 | 108.1 | 132.7 | 116.7 | 76.0 | 88.0 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:20:02 | 0:20:02 | 4.1 | 4.0 | 30.4 | 22.7 | 57.7 | 94.9 | 95.2 | 93.6 | 95.9 | 95.7 | 93.7 | 94.5 | 104.5 | 108.5 | 132.7 | 116.6 | 76.0 | 87.8 | 108.5 | 669.6 | 387.2 | 0.7 |
| 0:21:02 | 0:21:02 | 3.3 | 3.3 | 30.4 | 22.7 | 57.3 | 95.1 | 95.5 | 93.9 | 96.1 | 95.9 | 94.0 | 94.7 | 104.7 | 109.0 | 132.6 | 116.6 | 76.0 | 87.6 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:22:02 | 0:22:02 | 2.7 | 2.7 | 30.4 | 22.2 | 55.6 | 95.4 | 95.7 | 94.2 | 96.4 | 96.1 | 94.3 | 94.9 | 105.0 | 109.7 | 132.5 | 116.5 | 76.0 | 87.2 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:23:02 | 0:23:02 | 2.2 | 2.2 | 30.4 | 22.2 | 55.3 | 95.7 | 96.0 | 94.5 | 96.5 | 96.4 | 94.6 | 95.2 | 105.2 | 110.4 | 132.4 | 116.4 | 76.0 | 86.9 | 108.5 | 669.6 | 387.3 | 0.7 |

INITIAL EVACUATION(1) SUMMARY 03/10/2015 08:05:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:42 | 0:23:42 | 2.0 | 2.0 | 30.4 | 22.2 | 55.0 | 95.9 | 96.2 | 94.7 | 96.7 | 96.6 | 94.9 | 95.3 | 106.0 | 114.2 | 132.4 | 116.4 | 76.0 | 86.6 | 108.5 | 669.6 | 387.3 | 0.7 |

START PRESS: 0030.8 MAX PRESS: 0030.8 MAX TEMP: 096.6 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.5 MAX GAS TEMP: 076.1
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 092.1 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.9
PRESS CHANGE: 028.8 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 118.0
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 116.3

STABILIZATION 03/10/2015 08:05:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:23:42 | 0:00:00 | 2.0 | 2.0 | 30.4 | 22.2 | 55.0 | 95.9 | 96.2 | 94.7 | 96.7 | 96.6 | 94.9 | 95.3 | 106.0 | 114.2 | 132.4 | 116.4 | 76.0 | 86.6 | 108.5 | 669.6 | 387.3 | 0.7 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000142

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:42 | 0:01:00 | 2.0 | 2.0 | 30.4 | 22.2 | 54.5 | 96.2 | 96.5 | 95.1 | 97.0 | 96.9 | 95.3 | 95.7 | 105.7 | 114.0 | 132.4 | 116.3 | 76.0 | 86.1 | 108.5 | 669.6 | 387.3 | 0.7 |

STABILIZATION SUMMARY 03/10/2015 08:06:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:42 | 0:01:00 | 2.0 | 2.0 | 30.4 | 22.2 | 54.5 | 96.2 | 96.5 | 95.1 | 97.0 | 96.9 | 95.3 | 95.7 | 105.7 | 114.0 | 132.4 | 116.3 | 76.0 | 86.1 | 108.5 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0002.0 MAX TEMP: 096.9 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 132.4 MAX GAS TEMP: 076.0
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 094.9 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 132.3 MIN GAS TEMP: 075.9
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.4
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 116.3

LEAK CHECK 03/10/2015 08:06:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:24:42 | 0:00:00 | 2.0 | 2.0 | 30.4 | 22.2 | 54.5 | 96.2 | 96.5 | 95.1 | 97.0 | 96.9 | 95.3 | 95.7 | 105.7 | 114.0 | 132.4 | 116.3 | 76.0 | 86.1 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:25:42 | 0:01:00 | 2.0 | 2.0 | 30.4 | 23.1 | 56.2 | 96.5 | 96.8 | 95.5 | 97.2 | 97.2 | 95.7 | 96.0 | 105.2 | 112.9 | 132.3 | 116.2 | 76.0 | 85.5 | 108.6 | 669.6 | 387.3 | 0.7 |
| 0:26:42 | 0:02:00 | 2.1 | 2.0 | 30.4 | 23.1 | 55.7 | 96.8 | 97.1 | 95.8 | 97.5 | 97.5 | 96.1 | 96.3 | 104.6 | 111.0 | 132.2 | 116.1 | 76.0 | 84.9 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:27:43 | 0:03:00 | 2.1 | 2.0 | 30.4 | 23.6 | 56.2 | 97.1 | 97.4 | 96.2 | 97.8 | 97.7 | 96.3 | 96.5 | 104.2 | 109.2 | 132.2 | 116.1 | 76.0 | 84.4 | 108.5 | 669.6 | 387.2 | 0.7 |
| 0:28:43 | 0:04:00 | 2.1 | 2.1 | 30.4 | 23.6 | 56.0 | 97.2 | 97.5 | 96.3 | 97.9 | 97.8 | 96.5 | 96.7 | 104.2 | 107.7 | 132.2 | 116.0 | 76.1 | 83.9 | 108.5 | 669.6 | 387.3 | 0.7 |

LEAK CHECK SUMMARY 03/10/2015 08:11:43

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:42 | 0:05:00 | 2.1 | 2.1 | 30.4 | 23.6 | 55.7 | 97.5 | 97.7 | 96.6 | 98.1 | 98.0 | 96.7 | 96.9 | 104.5 | 108.1 | 132.2 | 116.0 | 76.0 | 83.4 | 108.6 | 669.6 | 387.2 | 0.8 |

START PRESS: 0002.0 MAX PRESS: 0002.1 MAX TEMP: 098.0 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 132.4 MAX GAS TEMP: 076.1
END PRESS: 0002.1 MIN PRESS: 0002.0 MIN TEMP: 095.3 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 132.1 MIN GAS TEMP: 076.0
PRESS CHANGE: 000.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.3
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 116.0

INITIAL N2 WASH(1) 03/10/2015 08:11:43

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:29:42 | 0:00:00 | 2.1 | 2.1 | 30.4 | 23.6 | 55.7 | 97.5 | 97.7 | 96.6 | 98.1 | 98.0 | 96.7 | 96.9 | 104.5 | 108.1 | 132.2 | 116.0 | 76.0 | 83.4 | 108.6 | 669.6 | 387.2 | 0.8 |
| 0:30:42 | 0:01:00 | 3.0 | 3.0 | 30.4 | 24.5 | 57.4 | 97.8 | 98.1 | 96.9 | 98.3 | 98.4 | 97.0 | 97.1 | 104.8 | 108.9 | 132.1 | 115.9 | 85.6 | 83.0 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:31:43 | 0:02:00 | 3.9 | 3.8 | 30.4 | 24.5 | 57.1 | 97.9 | 98.3 | 97.0 | 98.5 | 98.6 | 97.2 | 97.3 | 105.1 | 109.9 | 132.1 | 115.7 | 95.2 | 82.6 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:32:43 | 0:03:00 | 4.9 | 4.8 | 30.4 | 25.0 | 57.7 | 98.2 | 98.6 | 97.2 | 98.8 | 98.9 | 97.2 | 97.5 | 105.6 | 111.2 | 132.1 | 115.6 | 100.6 | 82.3 | 108.6 | 669.6 | 387.2 | 0.7 |
| 0:33:43 | 0:04:00 | 5.8 | 5.7 | 30.4 | 24.9 | 57.4 | 98.4 | 98.7 | 97.3 | 99.1 | 99.0 | 97.3 | 97.7 | 106.1 | 112.7 | 131.9 | 115.5 | 103.2 | 82.0 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:34:43 | 0:05:00 | 6.7 | 6.6 | 30.4 | 25.0 | 57.4 | 98.4 | 98.7 | 97.3 | 99.2 | 99.1 | 97.4 | 97.8 | 106.4 | 114.1 | 131.8 | 115.5 | 104.4 | 81.7 | 108.5 | 669.6 | 387.3 | 0.8 |
| 0:35:43 | 0:06:00 | 7.5 | 7.5 | 30.4 | 24.9 | 57.3 | 98.4 | 98.7 | 97.4 | 99.2 | 99.0 | 97.4 | 97.9 | 106.1 | 114.3 | 131.8 | 115.3 | 104.9 | 81.4 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:36:43 | 0:07:01 | 8.4 | 8.4 | 30.4 | 25.0 | 57.4 | 98.4 | 98.6 | 97.4 | 99.2 | 98.9 | 97.4 | 97.9 | 105.3 | 112.7 | 131.8 | 115.2 | 105.1 | 81.1 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:37:43 | 0:08:01 | 9.4 | 9.3 | 30.4 | 25.4 | 58.5 | 98.3 | 98.5 | 97.3 | 99.2 | 98.8 | 97.4 | 97.9 | 104.3 | 109.2 | 131.7 | 115.1 | 105.3 | 80.9 | 108.5 | 669.6 | 387.3 | 0.7 |
| 0:38:43 | 0:09:01 | 10.3 | 10.2 | 30.4 | 25.9 | 59.7 | 98.3 | 98.4 | 97.3 | 99.2 | 98.8 | 97.4 | 97.9 | 104.3 | 107.4 | 131.7 | 115.0 | 105.3 | 80.8 | 108.5 | 669.6 | 387.2 | 0.7 |
| 0:39:43 | 0:10:01 | 11.2 | 11.2 | 30.4 | 25.9 | 59.8 | 98.2 | 98.3 | 97.2 | 99.1 | 98.7 | 97.3 | 97.9 | 104.7 | 108.3 | 131.6 | 114.9 | 105.4 | 80.6 | 108.5 | 669.6 | 387.3 | 0.7 |

INITIAL N2 WASH(1) SUMMARY 03/10/2015 08:22:37

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:40:37 | 0:10:55 | 12.0 | 11.9 | 30.4 | 25.9 | 59.7 | 98.3 | 98.3 | 97.3 | 99.2 | 98.7 | 97.3 | 97.9 | 105.7 | 111.3 | 131.5 | 114.8 | 105.5 | 80.3 | 108.[illegible] | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.1 MAX PRESS: 0012.0 MAX TEMP: 099.1 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 132.2 MAX GAS TEMP: 105.5
END PRESS: 0012.0 MIN PRESS: 0002.1 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 131.5 MIN GAS TEMP: 076.0



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000143

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

PRESS CHANGE: 009.9 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.0
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.8

INITIAL EVACUATION(2) 03/10/2015 08:22:37

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:40:37 | 0:00:00 | 12.0 | 11.9 | 30.4 | 25.9 | 59.7 | 98.3 | 98.3 | 97.3 | 99.2 | 98.7 | 97.3 | 97.9 | 105.7 | 111.3 | 131.5 | 114.8 | 105.5 | 80.3 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:41:37 | 0:01:00 | 10.4 | 10.3 | 30.4 | 25.0 | 58.8 | 97.5 | 97.5 | 96.4 | 98.7 | 97.9 | 96.4 | 97.5 | 106.3 | 113.3 | 131.5 | 114.7 | 103.2 | 83.2 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:42:37 | 0:02:00 | 9.1 | 9.1 | 30.4 | 25.0 | 59.4 | 97.2 | 97.2 | 96.0 | 98.4 | 97.6 | 96.1 | 97.2 | 106.3 | 114.4 | 131.4 | 114.6 | 100.3 | 84.5 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:43:37 | 0:03:00 | 7.8 | 7.8 | 30.4 | 24.0 | 57.6 | 97.0 | 97.0 | 95.8 | 98.2 | 97.4 | 95.9 | 97.1 | 105.1 | 112.0 | 131.5 | 114.6 | 97.8 | 85.6 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:44:37 | 0:04:00 | 6.6 | 6.5 | 30.4 | 23.6 | 56.5 | 96.9 | 97.0 | 95.7 | 98.2 | 97.4 | 95.8 | 96.9 | 104.2 | 107.6 | 131.4 | 114.5 | 95.5 | 86.3 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:45:38 | 0:05:00 | 5.3 | 5.3 | 30.4 | 23.1 | 55.5 | 96.9 | 97.0 | 95.7 | 98.2 | 97.4 | 95.8 | 96.9 | 104.8 | 108.5 | 131.3 | 114.5 | 93.6 | 86.8 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:46:38 | 0:06:00 | 4.2 | 4.2 | 30.4 | 22.7 | 54.5 | 96.9 | 96.9 | 95.7 | 98.1 | 97.4 | 95.9 | 96.9 | 105.5 | 110.5 | 131.3 | 114.4 | 91.8 | 87.1 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:47:38 | 0:07:01 | 3.4 | 3.3 | 30.4 | 22.2 | 53.1 | 97.0 | 97.1 | 95.8 | 98.2 | 97.5 | 96.0 | 96.9 | 106.2 | 112.9 | 131.2 | 114.3 | 90.3 | 87.1 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:48:38 | 0:08:01 | 2.7 | 2.7 | 30.4 | 22.2 | 52.8 | 97.2 | 97.3 | 96.1 | 98.4 | 97.7 | 96.2 | 97.0 | 106.4 | 114.4 | 131.1 | 114.2 | 88.9 | 87.0 | 108.4 | 669.6 | 387.2 | 0.7 |
| 0:49:38 | 0:09:01 | 2.2 | 2.2 | 30.4 | 22.2 | 52.5 | 97.5 | 97.5 | 96.4 | 98.5 | 97.9 | 96.5 | 97.2 | 105.0 | 111.2 | 131.0 | 114.2 | 87.8 | 86.8 | 108.4 | 669.6 | 387.3 | 0.7 |

INITIAL EVACUATION(2) SUMMARY 03/10/2015 08:32:18

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:50:18 | 0:09:41 | 2.0 | 2.0 | 30.4 | 22.2 | 52.3 | 97.5 | 97.6 | 96.5 | 98.5 | 98.0 | 96.7 | 97.3 | 105.4 | 110.0 | 131.0 | 114.1 | 87.1 | 86.6 | 108.3 | 669.6 | 387.3 | 0.7 |

START PRESS: 0012.0 MAX PRESS: 0012.1 MAX TEMP: 098.7 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 131.6 MAX GAS TEMP: 105.5
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 095.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 131.0 MIN GAS TEMP: 087.1
PRESS CHANGE: 010.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.8
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.1

HUMIDIFICATION(1) 03/10/2015 08:32:18

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:50:18 | 0:00:00 | 2.0 | 2.0 | 30.4 | 22.2 | 52.3 | 97.5 | 97.6 | 96.5 | 98.5 | 98.0 | 96.7 | 97.3 | 105.4 | 110.0 | 131.0 | 114.1 | 87.1 | 86.6 | 108.3 | 669.6 | 387.3 | 0.7 |
| 0:51:18 | 0:01:00 | 2.3 | 2.3 | 30.4 | 31.8 | 74.3 | 97.8 | 97.7 | 97.0 | 98.7 | 98.1 | 97.1 | 97.5 | 103.7 | 104.7 | 131.0 | 114.1 | 86.2 | 86.1 | 108.4 | 669.6 | 387.3 | 0.7 |
| 0:52:18 | 0:02:00 | 2.5 | 2.5 | 30.4 | 38.6 | 90.0 | 97.9 | 97.7 | 97.2 | 98.9 | 98.1 | 97.3 | 97.6 | 103.4 | 103.9 | 131.0 | 114.7 | 85.3 | 85.5 | 109.0 | 669.6 | 387.3 | 0.7 |
| 0:53:19 | 0:03:00 | 2.6 | 2.6 | 30.4 | 42.2 | 98.1 | 98.1 | 97.7 | 97.4 | 99.1 | 98.0 | 97.5 | 97.8 | 103.3 | 103.9 | 130.9 | 117.5 | 84.6 | 84.9 | 108.9 | 669.6 | 387.3 | 0.7 |
| 0:54:19 | 0:04:00 | 2.8 | 2.7 | 30.4 | 45.0 | 100.0 | 98.1 | 97.7 | 97.5 | 99.2 | 98.0 | 97.6 | 97.9 | 103.1 | 104.1 | 130.8 | 117.6 | 83.9 | 84.2 | 108.8 | 669.6 | 387.3 | 0.7 |
| 0:55:19 | 0:05:00 | 2.8 | 2.8 | 30.4 | 46.8 | 100.0 | 98.2 | 97.7 | 97.6 | 99.2 | 98.0 | 97.7 | 97.9 | 102.4 | 102.4 | 130.9 | 117.5 | 83.3 | 83.7 | 108.8 | 669.6 | 387.3 | 0.7 |
| 0:56:19 | 0:06:00 | 2.9 | 2.9 | 30.4 | 48.6 | 100.0 | 98.2 | 97.6 | 97.6 | 99.3 | 97.9 | 97.7 | 97.9 | 101.0 | 99.1 | 130.8 | 117.5 | 82.9 | 83.2 | 108.8 | 669.6 | 387.3 | 0.7 |
| 0:57:19 | 0:07:01 | 3.0 | 2.9 | 30.4 | 50.0 | 100.0 | 98.1 | 97.5 | 97.6 | 99.3 | 97.8 | 97.7 | 97.9 | 100.0 | 97.3 | 130.8 | 117.4 | 82.3 | 82.7 | 108.7 | 669.6 | 387.3 | 0.7 |
| 0:58:19 | 0:08:01 | 3.0 | 3.0 | 30.4 | 51.3 | 100.0 | 98.0 | 97.3 | 97.6 | 99.2 | 97.5 | 97.6 | 97.8 | 99.3 | 96.2 | 130.7 | 117.4 | 81.9 | 82.2 | 108.7 | 669.6 | 387.3 | 0.7 |
| 0:59:19 | 0:09:01 | 3.1 | 3.1 | 30.4 | 52.2 | 100.0 | 97.8 | 97.1 | 97.4 | 99.0 | 97.4 | 97.5 | 97.7 | 98.5 | 95.3 | 130.7 | 117.3 | 81.6 | 81.8 | 108.6 | 669.6 | 387.3 | 1.0 |

HUMIDIFICATION(1) SUMMARY 03/10/2015 08:41:23

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:59:23 | 0:09:05 | 3.2 | 3.2 | 30.4 | 52.2 | 100.0 | 97.8 | 97.1 | 97.4 | 99.0 | 97.4 | 97.5 | 97.7 | 98.5 | 95.2 | 130.7 | 117.2 | 81.6 | 81.7 | 108.6 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0003.2 MAX TEMP: 098.1 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 131.0 MAX GAS TEMP: 087.1
END PRESS: 0003.2 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.6 MIN GAS TEMP: 081.6
PRESS CHANGE: 001.2 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.0

HUMIDIFICATION DWELL(1) 03/10/2015 08:41:23

| CYCLE TIME | PHASE TIME | PX-1 PRESS | PX-2 PRESS | PX-4 PRESS | CH HUMID | CALC. HUMID | AVG. TEMP | CH1 TEMP | CH2 TEMP | CH3 TEMP | CH1A TEMP | CH2A TEMP | CH3A TEMP | JR TEMP | JS TEMP | PRHTR TEMP | VAP TEMP | GAS TEMP | MNFLD TEMP | MNTR TEMP | EO DRM1 | EO DRM2 | GAS CONC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000144

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| hh:mm:ss | hh:mm:ss | (''HgA) | (''HgA) | (''HgA) | (mg/l) | (%RH) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (Lbs.) | (Lbs.) | (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 0:59:23 | 0:00:00 | 3.2 | 3.2 | 30.4 | 52.2 | 100.0 | 97.8 | 97.1 | 97.4 | 99.0 | 97.4 | 97.5 | 97.7 | 98.5 | 95.2 | 130.7 | 117.2 | 81.6 | 81.7 | 108.6 | 669.6 | 387.3 | 0.7 |
| 1:00:23 | 0:01:00 | 3.1 | 3.1 | 30.4 | 53.1 | 100.0 | 97.7 | 96.9 | 97.4 | 98.9 | 97.1 | 97.3 | 97.5 | 98.7 | 96.8 | 130.6 | 117.2 | 81.1 | 81.3 | 108.5 | 669.6 | 387.3 | 0.7 |
| 1:01:24 | 0:02:00 | 3.1 | 3.1 | 30.4 | 51.8 | 100.0 | 97.5 | 96.6 | 97.2 | 98.7 | 96.9 | 97.2 | 97.3 | 99.1 | 98.4 | 130.5 | 117.1 | 80.8 | 80.9 | 108.5 | 669.6 | 387.3 | 0.7 |
| 1:02:24 | 0:03:00 | 3.1 | 3.0 | 30.4 | 50.9 | 100.0 | 97.4 | 96.5 | 97.1 | 98.5 | 96.8 | 97.1 | 97.2 | 99.3 | 99.4 | 130.6 | 117.0 | 80.5 | 80.5 | 108.4 | 669.6 | 387.3 | 0.7 |
| 1:03:24 | 0:04:00 | 3.2 | 3.1 | 30.4 | 52.2 | 100.0 | 97.3 | 96.4 | 97.1 | 98.4 | 96.6 | 97.0 | 97.1 | 99.4 | 99.9 | 130.5 | 116.9 | 80.2 | 80.2 | 108.3 | 669.6 | 387.3 | 0.7 |
| 1:04:24 | 0:05:00 | 3.1 | 3.1 | 30.4 | 51.3 | 100.0 | 97.2 | 96.3 | 97.0 | 98.3 | 96.5 | 96.9 | 96.9 | 99.5 | 100.2 | 130.4 | 116.9 | 79.9 | 79.9 | 108.3 | 669.6 | 387.2 | 0.7 |
| 1:05:24 | 0:06:00 | 3.1 | 3.1 | 30.4 | 50.0 | 100.0 | 97.1 | 96.2 | 96.9 | 98.1 | 96.4 | 96.9 | 96.8 | 99.5 | 100.4 | 130.5 | 116.9 | 79.8 | 79.6 | 108.2 | 669.6 | 387.3 | 0.7 |
| 1:06:24 | 0:07:01 | 3.2 | 3.2 | 30.4 | 51.8 | 100.0 | 97.0 | 96.1 | 96.9 | 98.0 | 96.4 | 96.8 | 96.7 | 99.9 | 103.8 | 130.2 | 116.7 | 79.4 | 79.3 | 108.2 | 669.6 | 387.3 | 0.7 |
| 1:07:24 | 0:08:01 | 3.2 | 3.1 | 30.4 | 51.3 | 100.0 | 97.0 | 96.2 | 96.9 | 98.0 | 96.4 | 96.8 | 96.6 | 101.0 | 104.9 | 130.3 | 116.7 | 79.3 | 79.1 | 108.2 | 669.6 | 387.3 | 0.6 |
| 1:08:24 | 0:09:01 | 3.2 | 3.1 | 30.4 | 50.0 | 100.0 | 97.0 | 96.2 | 96.9 | 97.9 | 96.4 | 96.8 | 96.5 | 101.5 | 107.2 | 130.2 | 116.6 | 79.1 | 78.9 | 108.2 | 669.6 | 387.3 | 0.7 |
| 1:09:24 | 0:10:01 | 3.1 | 3.1 | 30.4 | 49.0 | 100.0 | 97.0 | 96.2 | 96.9 | 97.9 | 96.4 | 96.8 | 96.4 | 100.9 | 103.9 | 130.1 | 116.5 | 78.8 | 78.7 | 108.2 | 669.6 | 387.3 | 0.7 |
| 1:10:24 | 0:11:01 | 3.1 | 3.1 | 30.4 | 48.6 | 100.0 | 97.1 | 96.3 | 97.0 | 97.9 | 96.5 | 96.8 | 96.4 | 102.0 | 107.6 | 130.1 | 116.5 | 78.7 | 78.5 | 108.2 | 669.6 | 387.3 | 0.7 |
| 1:11:25 | 0:12:01 | 3.1 | 3.1 | 30.4 | 47.7 | 100.0 | 97.0 | 96.3 | 97.0 | 97.8 | 96.5 | 96.9 | 96.4 | 101.1 | 104.1 | 130.1 | 116.4 | 78.6 | 78.3 | 108.1 | 669.6 | 387.3 | 0.7 |
| 1:12:25 | 0:13:01 | 3.1 | 3.0 | 30.4 | 47.2 | 100.0 | 97.1 | 96.4 | 97.0 | 97.8 | 96.6 | 96.9 | 96.4 | 100.6 | 102.5 | 130.0 | 116.4 | 78.4 | 78.1 | 108.1 | 669.6 | 387.3 | 0.7 |
| 1:13:25 | 0:14:01 | 3.3 | 3.2 | 30.4 | 50.9 | 100.0 | 97.1 | 96.4 | 97.1 | 97.8 | 96.6 | 96.9 | 96.4 | 101.2 | 104.3 | 130.1 | 116.3 | 78.3 | 78.0 | 108.1 | 669.6 | 387.3 | 0.7 |
| 1:14:25 | 0:15:01 | 3.2 | 3.2 | 30.4 | 50.0 | 100.0 | 97.1 | 96.4 | 97.1 | 97.8 | 96.6 | 96.9 | 96.4 | 100.7 | 102.7 | 129.9 | 116.2 | 78.2 | 77.9 | 108.1 | 669.6 | 387.3 | 0.7 |
| 1:15:25 | 0:16:02 | 3.2 | 3.2 | 30.4 | 49.5 | 100.0 | 97.1 | 96.5 | 97.1 | 97.8 | 96.6 | 97.0 | 96.4 | 100.5 | 102.1 | 129.8 | 116.1 | 78.0 | 77.7 | 108.0 | 669.6 | 387.3 | 0.7 |
| 1:16:25 | 0:17:02 | 3.2 | 3.2 | 30.4 | 48.6 | 100.0 | 97.1 | 96.4 | 97.1 | 97.7 | 96.6 | 97.0 | 96.3 | 100.3 | 101.8 | 129.8 | 116.1 | 77.9 | 77.7 | 108.0 | 669.6 | 387.3 | 0.7 |
| 1:17:25 | 0:18:02 | 3.2 | 3.2 | 30.4 | 48.2 | 100.0 | 97.1 | 96.4 | 97.1 | 97.7 | 96.6 | 97.0 | 96.3 | 100.2 | 101.6 | 129.8 | 116.0 | 77.9 | 77.6 | 108.0 | 669.6 | 387.3 | 0.7 |
| 1:18:25 | 0:19:02 | 3.2 | 3.2 | 30.4 | 47.7 | 100.0 | 97.0 | 96.4 | 97.0 | 97.6 | 96.6 | 97.0 | 96.3 | 100.0 | 101.3 | 129.8 | 115.9 | 77.8 | 77.5 | 108.0 | 669.6 | 387.3 | 0.7 |
| 1:19:25 | 0:20:02 | 3.2 | 3.1 | 30.4 | 46.8 | 100.0 | 97.0 | 96.4 | 97.0 | 97.6 | 96.6 | 97.0 | 96.3 | 101.0 | 104.3 | 129.6 | 115.8 | 77.7 | 77.4 | 107.9 | 669.6 | 387.3 | 0.7 |
| 1:20:25 | 0:21:02 | 3.2 | 3.1 | 30.4 | 46.8 | 100.0 | 97.1 | 96.5 | 97.1 | 97.7 | 96.7 | 97.0 | 96.2 | 100.3 | 102.4 | 129.6 | 115.8 | 77.6 | 77.3 | 107.9 | 669.6 | 387.3 | 0.7 |
| 1:21:26 | 0:22:02 | 3.2 | 3.1 | 30.4 | 46.3 | 100.0 | 97.0 | 96.5 | 97.0 | 97.6 | 96.7 | 97.0 | 96.3 | 100.3 | 103.3 | 129.5 | 115.7 | 77.6 | 77.2 | 107.9 | 669.6 | 387.2 | 0.6 |
| 1:22:26 | 0:23:02 | 3.2 | 3.1 | 30.4 | 45.9 | 100.0 | 97.1 | 96.5 | 97.1 | 97.6 | 96.7 | 97.0 | 96.2 | 100.6 | 103.3 | 129.4 | 115.6 | 77.3 | 77.2 | 107.9 | 669.6 | 387.3 | 0.7 |
| 1:23:26 | 0:24:02 | 3.2 | 3.1 | 30.4 | 45.4 | 100.0 | 97.0 | 96.5 | 97.1 | 97.5 | 96.7 | 97.0 | 96.2 | 100.2 | 102.1 | 129.4 | 115.6 | 77.3 | 77.1 | 107.8 | 669.6 | 387.3 | 0.7 |
| 1:24:26 | 0:25:02 | 3.2 | 3.1 | 30.4 | 45.4 | 100.0 | 97.0 | 96.5 | 97.0 | 97.5 | 96.7 | 97.0 | 96.1 | 100.5 | 103.3 | 129.4 | 115.5 | 77.2 | 77.1 | 107.8 | 669.6 | 387.3 | 0.7 |
| 1:25:26 | 0:26:03 | 3.2 | 3.1 | 30.4 | 44.3 | 100.0 | 97.0 | 96.5 | 97.0 | 97.5 | 96.8 | 97.0 | 96.1 | 100.8 | 104.1 | 129.4 | 115.4 | 77.2 | 77.0 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:26:26 | 0:27:03 | 3.2 | 3.1 | 30.4 | 44.5 | 100.0 | 97.1 | 96.6 | 97.1 | 97.5 | 96.8 | 97.0 | 96.1 | 100.6 | 103.8 | 129.3 | 115.3 | 77.1 | 76.9 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:27:26 | 0:28:03 | 3.2 | 3.1 | 30.4 | 44.0 | 100.0 | 97.1 | 96.7 | 97.1 | 97.5 | 96.8 | 97.0 | 96.2 | 101.2 | 105.6 | 129.3 | 115.3 | 77.1 | 76.9 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:28:26 | 0:29:03 | 3.2 | 3.1 | 30.4 | 43.6 | 100.0 | 97.1 | 96.7 | 97.1 | 97.5 | 96.9 | 97.0 | 96.1 | 100.6 | 103.2 | 129.2 | 115.2 | 77.0 | 76.8 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:29:26 | 0:30:03 | 3.2 | 3.1 | 30.4 | 43.6 | 100.0 | 97.1 | 96.7 | 97.1 | 97.5 | 96.9 | 97.0 | 96.1 | 101.1 | 104.9 | 129.2 | 115.1 | 76.8 | 76.8 | 107.6 | 669.6 | 387.3 | 0.7 |
| 1:30:26 | 0:31:03 | 3.2 | 3.2 | 30.4 | 43.6 | 100.0 | 97.1 | 96.7 | 97.1 | 97.5 | 96.9 | 97.0 | 96.1 | 100.5 | 102.7 | 129.2 | 115.0 | 76.8 | 76.6 | 107.6 | 669.6 | 387.3 | 0.7 |
| 1:31:27 | 0:32:03 | 3.2 | 3.2 | 30.4 | 43.2 | 100.0 | 97.1 | 96.7 | 97.1 | 97.5 | 96.9 | 97.0 | 96.1 | 100.2 | 102.0 | 129.1 | 115.0 | 76.7 | 76.6 | 107.6 | 669.6 | 387.3 | 0.7 |
| 1:32:27 | 0:33:03 | 3.2 | 3.2 | 30.4 | 42.7 | 100.0 | 97.1 | 96.7 | 97.1 | 97.4 | 97.0 | 97.1 | 96.1 | 100.2 | 102.8 | 129.0 | 114.9 | 76.6 | 76.5 | 107.5 | 669.6 | 387.3 | 0.7 |
| 1:33:27 | 0:34:03 | 3.2 | 3.2 | 30.4 | 42.7 | 100.0 | 97.2 | 96.8 | 97.2 | 97.5 | 96.9 | 97.0 | 96.0 | 100.1 | 102.2 | 133.1 | 114.9 | 76.6 | 76.4 | 107.5 | 669.6 | 387.2 | 0.7 |
| 1:34:27 | 0:35:03 | 3.2 | 3.2 | 30.4 | 42.7 | 100.0 | 97.1 | 96.8 | 97.1 | 97.4 | 96.9 | 97.0 | 96.0 | 99.9 | 101.5 | 133.3 | 114.8 | 76.4 | 76.4 | 107.4 | 669.6 | 387.3 | 0.7 |
| 1:35:27 | 0:36:04 | 3.2 | 3.2 | 30.4 | 42.2 | 100.0 | 97.1 | 96.8 | 97.1 | 97.4 | 96.9 | 96.9 | 96.0 | 99.7 | 101.2 | 133.3 | 114.7 | 76.4 | 76.3 | 107.4 | 669.6 | 387.3 | 0.7 |
| 1:36:27 | 0:37:04 | 3.2 | 3.2 | 30.4 | 42.2 | 100.0 | 97.1 | 96.7 | 97.1 | 97.4 | 96.9 | 97.0 | 96.0 | 99.7 | 101.1 | 133.2 | 114.7 | 76.4 | 76.3 | 107.4 | 669.6 | 387.3 | 0.7 |
| 1:37:27 | 0:38:04 | 3.2 | 3.2 | 30.4 | 42.2 | 100.0 | 97.1 | 96.7 | 97.1 | 97.4 | 96.9 | 97.0 | 96.0 | 99.5 | 101.1 | 133.3 | 114.5 | 76.3 | 76.3 | 107.4 | 669.6 | 387.2 | 0.7 |
| 1:38:27 | 0:39:04 | 3.2 | 3.2 | 30.4 | 41.8 | 99.9 | 97.0 | 96.7 | 97.1 | 97.3 | 96.9 | 97.0 | 96.0 | 99.8 | 102.8 | 133.3 | 114.5 | 76.2 | 76.3 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:39:27 | 0:40:04 | 3.2 | 3.2 | 30.4 | 41.3 | 99.0 | 97.0 | 96.7 | 97.0 | 97.2 | 96.9 | 96.9 | 95.9 | 101.4 | 107.9 | 133.2 | 114.4 | 76.2 | 76.3 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:40:27 | 0:41:04 | 3.3 | 3.2 | 30.4 | 41.3 | 99.0 | 97.0 | 96.7 | 97.0 | 97.2 | 96.9 | 96.9 | 95.9 | 100.5 | 103.8 | 133.1 | 114.3 | 76.2 | 76.2 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:41:28 | 0:42:04 | 3.3 | 3.2 | 30.4 | 41.3 | 98.7 | 97.1 | 96.8 | 97.1 | 97.4 | 97.0 | 96.9 | 95.9 | 101.6 | 107.8 | 133.1 | 114.3 | 76.2 | 76.2 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:42:28 | 0:43:04 | 3.3 | 3.2 | 30.4 | 41.3 | 98.7 | 97.1 | 96.8 | 97.1 | 97.3 | 97.0 | 96.9 | 95.9 | 100.7 | 103.9 | 133.1 | 114.3 | 76.1 | 76.2 | 107.3 | 669.6 | 387.2 | 0.7 |
| 1:43:28 | 0:44:04 | 3.3 | 3.2 | 30.4 | 41.3 | 98.7 | 97.1 | 96.9 | 97.1 | 97.3 | 97.1 | 97.0 | 96.0 | 100.2 | 102.3 | 133.1 | 114.2 | 76.0 | 76.2 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:44:28 | 0:45:04 | 3.3 | 3.2 | 30.4 | 41.3 | 98.5 | 97.1 | 96.9 | 97.1 | 97.4 | 97.2 | 97.1 | 96.1 | 100.0 | 101.8 | 133.0 | 114.1 | 76.1 | 76.3 | 107.3 | 669.6 | 387.3 | 0.7 |
| 1:45:28 | 0:46:05 | 3.3 | 3.3 | 30.4 | 40.9 | 97.6 | 97.1 | 96.9 | 97.1 | 97.3 | 97.1 | 97.1 | 96.0 | 99.8 | 101.3 | 132.9 | 114.8 | 76.0 | 76.3 | 108.0 | 669.6 | 387.3 | 0.7 |
| 1:46:28 | 0:47:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.4 | 97.1 | 96.9 | 97.1 | 97.3 | 97.2 | 97.1 | 96.0 | 99.7 | 101.3 | 132.9 | 117.5 | 76.0 | 76.2 | 107.8 | 669.6 | 387.3 | 0.7 |
| 1:47:28 | 0:48:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.2 | 97.2 | 97.0 | 97.2 | 97.4 | 97.1 | 97.1 | 95.9 | 99.6 | 101.1 | 132.9 | 117.6 | 76.0 | 76.3 | 107.7 | 669.6 | 387.2 | 0.7 |
| 1:48:28 | 0:49:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.5 | 97.1 | 96.9 | 97.1 | 97.3 | 97.1 | 97.1 | 95.9 | 99.5 | 101.0 | 132.8 | 117.5 | 76.0 | 76.3 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:49:28 | 0:50:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.4 | 97.1 | 96.9 | 97.2 | 97.3 | 97.1 | 97.1 | 96.0 | 99.4 | 100.8 | 132.8 | 117.4 | 76.0 | 76.3 | 107.8 | 669.6 | 387.3 | 0.7 |
| 1:50:28 | 0:51:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.3 | 97.1 | 96.9 | 97.2 | 97.3 | 97.1 | 97.0 | 95.9 | 99.4 | 100.8 | 132.7 | 117.4 | 76.0 | 76.3 | 107.8 | 669.6 | 387.3 | 0.7 |
| 1:51:29 | 0:52:05 | 3.3 | 3.3 | 30.4 | 40.4 | 96.5 | 97.1 | 96.9 | 97.1 | 97.3 | 97.0 | 97.0 | 95.9 | 99.2 | 100.6 | 132.6 | 117.3 | 76.0 | 76.3 | 107.7 | 669.6 | 387.3 | 0.5 |
| 1:52:29 | 0:53:05 | 3.4 | 3.3 | 30.4 | 40.4 | 96.6 | 97.0 | 96.8 | 97.1 | 97.2 | 97.0 | 97.0 | 95.8 | 99.1 | 100.6 | 132.6 | 117.2 | 76.0 | 76.2 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:53:29 | 0:54:05 | 3.4 | 3.3 | 30.4 | 40.1 | 95.9 | 97.0 | 96.8 | 97.1 | 97.2 | 97.0 | 97.0 | 95.8 | 99.0 | 100.4 | 132.6 | 117.2 | 75.9 | 76.2 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:54:29 | 0:55:05 | 3.4 | 3.3 | 30.4 | 40.0 | 95.6 | 97.0 | 96.8 | 97.1 | 97.2 | 97.0 | 96.9 | 95.7 | 100.9 | 106.2 | 132.6 | 117.1 | 75.9 | 76.2 | 107.6 | 669.6 | 387.2 | 0.7 |
| 1:55:29 | 0:56:06 | 3.4 | 3.3 | 30.4 | 40.0 | 95.6 | 97.0 | 96.8 | 97.1 | 97.2 | 97.0 | 97.0 | 95.8 | 99.8 | 102.5 | 132.5 | 117.0 | 75.8 | 76.2 | 107.6 | 669.6 | 387.3 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000145

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 1:56:29 | 0:57:06 | 3.4 | 3.3 | 30.4 | 40.0 | 95.5 | 97.0 | 96.9 | 97.1 | 97.1 | 97.0 | 97.0 | 95.8 | 100.6 | 104.8 | 132.5 | 116.9 | 75.8 | 76.2 | 107.7 | 669.6 | 387.3 | 0.7 |
| 1:57:29 | 0:58:06 | 3.4 | 3.4 | 30.4 | 40.0 | 95.3 | 97.1 | 97.0 | 97.2 | 97.2 | 97.1 | 97.0 | 95.8 | 99.9 | 102.3 | 132.4 | 116.8 | 75.8 | 76.1 | 107.6 | 669.6 | 387.3 | 0.7 |
| 1:58:29 | 0:59:06 | 3.4 | 3.4 | 30.4 | 39.5 | 94.4 | 97.1 | 96.9 | 97.1 | 97.2 | 97.1 | 97.0 | 95.8 | 99.6 | 101.3 | 132.4 | 116.7 | 75.8 | 76.1 | 107.6 | 669.6 | 387.3 | 0.7 |
| 1:59:29 | 1:00:06 | 3.4 | 3.4 | 30.4 | 39.5 | 94.4 | 97.0 | 96.9 | 97.1 | 97.1 | 97.0 | 97.0 | 95.7 | 100.2 | 104.5 | 132.2 | 116.7 | 75.7 | 76.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 2:00:29 | 1:01:06 | 3.4 | 3.4 | 30.4 | 39.5 | 94.2 | 97.1 | 97.0 | 97.2 | 97.2 | 97.1 | 97.0 | 95.8 | 99.9 | 102.5 | 132.3 | 116.6 | 75.7 | 76.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 2:01:30 | 1:02:06 | 3.4 | 3.4 | 30.4 | 39.5 | 94.3 | 97.1 | 96.9 | 97.2 | 97.2 | 97.1 | 97.0 | 95.8 | 99.5 | 101.3 | 132.2 | 116.5 | 75.7 | 76.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 2:02:30 | 1:03:06 | 3.5 | 3.4 | 30.4 | 39.5 | 94.2 | 97.1 | 97.0 | 97.2 | 97.2 | 97.1 | 97.0 | 95.8 | 99.4 | 101.0 | 132.2 | 116.4 | 75.6 | 76.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 2:03:30 | 1:04:06 | 3.5 | 3.4 | 30.4 | 39.5 | 94.2 | 97.1 | 97.0 | 97.2 | 97.2 | 97.1 | 97.0 | 95.8 | 99.4 | 100.8 | 132.1 | 116.4 | 75.7 | 76.0 | 107.6 | 669.6 | 387.3 | 0.7 |
| 2:04:30 | 1:05:06 | 3.5 | 3.4 | 30.4 | 39.5 | 94.3 | 97.1 | 96.9 | 97.2 | 97.2 | 97.1 | 97.1 | 95.8 | 99.2 | 100.7 | 132.1 | 116.3 | 75.6 | 75.9 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:05:30 | 1:06:07 | 3.5 | 3.4 | 30.4 | 39.5 | 94.3 | 97.1 | 96.9 | 97.2 | 97.2 | 97.0 | 97.0 | 95.7 | 99.1 | 100.6 | 132.1 | 116.3 | 75.6 | 75.9 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:06:30 | 1:07:07 | 3.5 | 3.4 | 30.4 | 39.0 | 93.5 | 97.0 | 96.8 | 97.1 | 97.1 | 97.1 | 97.1 | 95.7 | 99.9 | 103.3 | 131.9 | 116.1 | 75.6 | 75.9 | 107.5 | 669.6 | 387.2 | 0.7 |
| 2:07:30 | 1:08:07 | 3.5 | 3.5 | 30.4 | 39.0 | 93.2 | 97.1 | 96.9 | 97.2 | 97.2 | 97.1 | 97.1 | 95.7 | 100.5 | 105.2 | 131.8 | 116.1 | 75.6 | 75.9 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:08:30 | 1:09:07 | 3.5 | 3.5 | 30.4 | 39.0 | 93.1 | 97.1 | 97.0 | 97.2 | 97.2 | 97.2 | 97.1 | 95.8 | 99.8 | 102.4 | 131.8 | 116.1 | 75.6 | 76.0 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:09:30 | 1:10:07 | 3.5 | 3.5 | 30.4 | 39.0 | 93.1 | 97.1 | 97.0 | 97.2 | 97.2 | 97.2 | 97.1 | 95.7 | 99.4 | 101.3 | 131.7 | 115.9 | 75.6 | 76.0 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:10:30 | 1:11:07 | 3.5 | 3.5 | 30.4 | 39.0 | 93.1 | 97.1 | 97.0 | 97.2 | 97.2 | 97.2 | 97.1 | 95.8 | 99.3 | 100.9 | 131.7 | 115.9 | 75.6 | 76.0 | 107.4 | 669.6 | 387.3 | 0.7 |
| 2:11:31 | 1:12:07 | 3.5 | 3.5 | 30.4 | 39.0 | 93.1 | 97.2 | 97.0 | 97.3 | 97.2 | 97.2 | 97.1 | 95.8 | 99.2 | 100.7 | 131.6 | 115.8 | 75.6 | 76.0 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:12:31 | 1:13:07 | 3.6 | 3.5 | 30.4 | 39.0 | 93.0 | 97.2 | 97.0 | 97.3 | 97.2 | 97.1 | 97.1 | 95.7 | 99.1 | 100.6 | 131.6 | 115.8 | 75.6 | 76.0 | 107.4 | 669.6 | 387.2 | 0.7 |
| 2:13:31 | 1:14:07 | 3.6 | 3.5 | 30.4 | 39.0 | 93.2 | 97.1 | 97.0 | 97.2 | 97.1 | 97.1 | 97.1 | 95.8 | 99.0 | 100.4 | 131.5 | 115.7 | 75.6 | 76.0 | 107.4 | 669.6 | 387.3 | 0.7 |
| 2:14:31 | 1:15:07 | 3.6 | 3.5 | 30.4 | 39.0 | 93.2 | 97.1 | 97.0 | 97.2 | 97.1 | 97.1 | 97.1 | 95.7 | 98.9 | 100.4 | 131.6 | 115.7 | 75.7 | 76.0 | 107.4 | 669.6 | 387.2 | 0.7 |
| 2:15:31 | 1:16:08 | 3.6 | 3.5 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.0 | 97.0 | 95.6 | 98.8 | 100.3 | 131.5 | 115.5 | 75.6 | 75.9 | 107.3 | 669.6 | 387.3 | 0.7 |
| 2:16:31 | 1:17:08 | 3.6 | 3.5 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.0 | 97.1 | 95.7 | 98.9 | 101.6 | 131.4 | 115.5 | 75.6 | 75.9 | 107.3 | 669.6 | 387.3 | 0.8 |
| 2:17:31 | 1:18:08 | 3.6 | 3.6 | 30.4 | 38.6 | 92.3 | 97.0 | 96.9 | 97.1 | 97.1 | 97.1 | 97.1 | 95.6 | 100.3 | 106.3 | 131.3 | 115.4 | 75.6 | 75.9 | 107.3 | 669.6 | 387.3 | 0.7 |
| 2:18:31 | 1:19:08 | 3.6 | 3.6 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.0 | 97.0 | 95.6 | 99.6 | 102.8 | 131.2 | 115.3 | 75.6 | 75.9 | 107.3 | 669.6 | 387.3 | 0.7 |
| 2:19:31 | 1:20:08 | 3.6 | 3.6 | 30.4 | 38.6 | 92.4 | 97.0 | 96.9 | 97.1 | 97.0 | 97.1 | 97.0 | 95.6 | 99.5 | 102.7 | 131.2 | 115.2 | 75.5 | 75.9 | 107.2 | 669.6 | 387.2 | 0.7 |
| 2:20:31 | 1:21:08 | 3.6 | 3.6 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.2 | 97.1 | 97.1 | 97.0 | 95.6 | 100.2 | 104.3 | 131.1 | 115.2 | 75.6 | 75.9 | 107.2 | 669.6 | 387.3 | 0.7 |
| 2:21:32 | 1:22:08 | 3.6 | 3.6 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.1 | 97.0 | 95.6 | 99.5 | 102.0 | 131.2 | 115.1 | 75.5 | 75.9 | 107.3 | 669.6 | 387.2 | 0.7 |
| 2:22:32 | 1:23:08 | 3.7 | 3.6 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.2 | 97.1 | 97.2 | 97.1 | 95.7 | 99.2 | 101.1 | 131.0 | 115.0 | 75.4 | 75.9 | 107.2 | 669.6 | 387.3 | 0.7 |
| 2:23:32 | 1:24:08 | 3.7 | 3.6 | 30.4 | 38.6 | 92.0 | 97.2 | 97.0 | 97.3 | 97.2 | 97.2 | 97.1 | 95.7 | 99.1 | 100.7 | 131.0 | 115.0 | 75.5 | 75.9 | 107.2 | 669.6 | 387.2 | 0.7 |
| 2:24:32 | 1:25:08 | 3.7 | 3.6 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.3 | 97.1 | 97.2 | 97.1 | 95.6 | 98.9 | 100.4 | 131.0 | 114.8 | 75.5 | 75.9 | 107.2 | 669.6 | 387.2 | 0.8 |
| 2:25:32 | 1:26:09 | 3.7 | 3.6 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.2 | 97.1 | 97.2 | 97.1 | 95.7 | 98.8 | 100.4 | 131.0 | 114.8 | 75.5 | 75.9 | 107.1 | 669.6 | 387.3 | 0.7 |
| 2:26:32 | 1:27:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.0 | 97.1 | 97.0 | 97.3 | 97.1 | 97.2 | 97.1 | 95.8 | 98.8 | 100.3 | 131.0 | 114.8 | 75.5 | 75.9 | 107.1 | 669.6 | 387.3 | 0.7 |
| 2:27:32 | 1:28:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.2 | 97.1 | 97.1 | 97.1 | 95.7 | 98.7 | 100.2 | 130.8 | 114.7 | 75.6 | 75.8 | 107.1 | 669.6 | 387.2 | 0.7 |
| 2:28:32 | 1:29:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.1 | 97.1 | 95.6 | 98.6 | 100.0 | 130.7 | 114.6 | 75.4 | 75.9 | 107.1 | 669.6 | 387.3 | 0.7 |
| 2:29:32 | 1:30:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.0 | 97.0 | 95.6 | 98.5 | 100.0 | 130.7 | 114.6 | 75.5 | 75.8 | 107.0 | 669.6 | 387.3 | 0.7 |
| 2:30:32 | 1:31:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.0 | 97.0 | 95.4 | 99.9 | 106.5 | 130.6 | 114.5 | 75.4 | 75.8 | 107.0 | 669.6 | 387.3 | 0.7 |
| 2:31:33 | 1:32:09 | 3.7 | 3.7 | 30.4 | 38.6 | 92.4 | 97.0 | 96.8 | 97.2 | 97.0 | 97.0 | 97.0 | 95.6 | 99.7 | 103.6 | 130.7 | 114.4 | 75.5 | 75.8 | 107.0 | 669.6 | 387.3 | 0.9 |
| 2:32:33 | 1:33:09 | 3.8 | 3.7 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.1 | 97.1 | 95.6 | 99.6 | 103.2 | 130.6 | 114.4 | 75.4 | 75.8 | 106.9 | 669.6 | 387.3 | 0.7 |
| 2:33:33 | 1:34:09 | 3.8 | 3.7 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.3 | 97.1 | 97.2 | 97.1 | 95.7 | 99.2 | 101.3 | 130.6 | 114.3 | 75.5 | 75.8 | 107.0 | 669.6 | 387.3 | 0.7 |
| 2:34:33 | 1:35:09 | 3.8 | 3.7 | 30.4 | 38.6 | 92.0 | 97.1 | 97.0 | 97.3 | 97.1 | 97.1 | 97.1 | 95.6 | 98.9 | 100.7 | 130.5 | 114.2 | 75.4 | 75.8 | 106.9 | 669.6 | 387.3 | 0.7 |
| 2:35:33 | 1:36:10 | 3.8 | 3.7 | 30.4 | 38.6 | 92.1 | 97.1 | 97.0 | 97.3 | 97.1 | 97.0 | 97.1 | 95.6 | 98.8 | 100.4 | 130.4 | 114.1 | 75.4 | 75.8 | 106.9 | 669.6 | 387.3 | 0.7 |
| 2:36:33 | 1:37:10 | 3.8 | 3.8 | 30.4 | 38.6 | 92.2 | 97.1 | 96.9 | 97.2 | 97.1 | 97.2 | 97.1 | 95.7 | 98.6 | 100.1 | 130.4 | 114.6 | 75.3 | 75.8 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:37:33 | 1:38:10 | 3.8 | 3.8 | 30.4 | 38.1 | 91.2 | 97.0 | 96.9 | 97.2 | 97.0 | 97.1 | 97.1 | 95.6 | 98.5 | 100.0 | 130.4 | 117.3 | 75.3 | 75.8 | 107.4 | 669.6 | 387.3 | 0.7 |
| 2:38:33 | 1:39:10 | 3.8 | 3.8 | 30.4 | 38.6 | 92.3 | 97.0 | 96.9 | 97.2 | 97.0 | 97.0 | 97.0 | 95.6 | 98.4 | 100.0 | 130.3 | 117.5 | 75.4 | 75.7 | 107.3 | 669.6 | 387.3 | 0.7 |

HUMIDIFICATION DWELL(1) SUMMARY 03/10/2015 10:21:24

| CYCLE TIME | PHASE TIME | PX-1 PRESS | PX-2 PRESS | PX-4 PRESS | CH HUMID | CALC. HUMID | AVG. TEMP | CH1 TEMP | CH2 TEMP | CH3 TEMP | CH1A TEMP | CH2A TEMP | CH3A TEMP | JR TEMP | JS TEMP | PRHTR TEMP | VAP TEMP | GAS TEMP | MNFLD TEMP | MNTR TEMP | EO DRM1 | EO DRM2 | GAS CONC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| hh:mm:ss | hh:mm:ss | (''HgA) | (''HgA) | (''HgA) | (mg/l) | (%RH) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (Lbs.) | (Lbs.) | (mg/l) |
| 2:39:23 | 1:40:00 | 3.8 | 3.8 | 30.4 | 38.1 | 91.3 | 97.0 | 96.8 | 97.2 | 97.0 | 97.0 | 97.1 | 95.6 | 99.1 | 103.4 | 130.2 | 117.4 | 75.3 | 75.7 | 107.3 | 669.6 | 387.2 | 0.7 |

START PRESS: 0003.2 MAX PRESS: 0003.8 MAX TEMP: 097.7 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.4 MAX GAS TEMP: 081.6
END PRESS: 0003.8 MIN PRESS: 0003.1 MIN TEMP: 095.4 DRM1 END: 669.6 DRM2 END: 387.2 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.3
PRESS CHANGE: 000.6 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 114.0

INITIAL EVACUATION(3) 03/10/2015 10:21:24

| CYCLE TIME | PHASE TIME | PX-1 PRESS | PX-2 PRESS | PX-4 PRESS | CH HUMID | CALC. HUMID | AVG. TEMP | CH1 TEMP | CH2 TEMP | CH3 TEMP | CH1A TEMP | CH2A TEMP | CH3A TEMP | JR TEMP | JS TEMP | PRHTR TEMP | VAP TEMP | GAS TEMP | MNFLD TEMP | MNTR TEMP | EO DRM1 | EO DRM2 | GAS CONC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000146

| hh:mm:ss | hh:mm:ss | (''HgA) | (''HgA) | (''HgA) | (mg/l) | (%RH) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (Lbs.) | (Lbs.) | (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:39:23 | 0:00:00 | 3.8 | 3.8 | 30.4 | 38.1 | 91.3 | 97.0 | 96.8 | 97.2 | 97.0 | 97.0 | 97.1 | 95.6 | 99.1 | 103.4 | 130.2 | 117.4 | 75.3 | 75.7 | 107.3 | 669.6 | 387.2 | 0.7 |
| 2:40:24 | 0:01:00 | 3.1 | 3.0 | 30.4 | 35.4 | 85.3 | 96.8 | 96.6 | 96.9 | 96.9 | 96.9 | 96.8 | 95.3 | 101.6 | 109.7 | 130.3 | 117.4 | 75.4 | 78.4 | 107.3 | 669.6 | 387.3 | 0.7 |
| 2:41:24 | 0:02:00 | 2.5 | 2.5 | 30.4 | 32.7 | 78.8 | 96.8 | 96.6 | 96.9 | 96.8 | 96.9 | 96.8 | 95.3 | 101.7 | 110.3 | 130.2 | 117.3 | 75.4 | 80.0 | 107.4 | 669.6 | 387.3 | 0.7 |
| 2:42:24 | 0:03:00 | 2.1 | 2.1 | 30.4 | 30.9 | 74.3 | 96.8 | 96.7 | 97.0 | 96.7 | 96.9 | 96.8 | 95.2 | 102.7 | 112.9 | 130.0 | 117.3 | 75.4 | 80.6 | 107.4 | 669.6 | 387.3 | 0.7 |

INITIAL EVACUATION(3) SUMMARY 03/10/2015 10:24:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:42:42 | 0:03:18 | 2.0 | 2.0 | 30.4 | 30.4 | 73.1 | 96.9 | 96.8 | 97.0 | 96.8 | 96.9 | 96.8 | 95.2 | 103.3 | 112.6 | 130.0 | 117.3 | 75.4 | 80.7 | 107.4 | 669.6 | 387.3 | 0.8 |

START PRESS: 0003.8 MAX PRESS: 0003.8 MAX TEMP: 097.1 DRM1 START: 669.6 DRM2 START: 387.2 MAX PRE TEMP: 130.3 MAX GAS TEMP: 075.4
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 095.2 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 130.0 MIN GAS TEMP: 075.3
PRESS CHANGE: 001.8 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.5
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 117.2

INITIAL N2 WASH(2) 03/10/2015 10:24:42

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:42:42 | 0:00:00 | 2.0 | 2.0 | 30.4 | 30.4 | 73.1 | 96.9 | 96.8 | 97.0 | 96.8 | 96.9 | 96.8 | 95.2 | 103.3 | 112.6 | 130.0 | 117.3 | 75.4 | 80.7 | 107.4 | 669.6 | 387.3 | 0.8 |
| 2:43:42 | 0:01:00 | 3.3 | 3.3 | 30.4 | 32.2 | 76.3 | 97.4 | 97.4 | 97.6 | 97.1 | 97.5 | 97.4 | 95.7 | 103.3 | 111.8 | 130.0 | 117.1 | 89.8 | 80.4 | 107.5 | 669.6 | 387.3 | 0.7 |

INITIAL N2 WASH(2) SUMMARY 03/10/2015 10:26:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:44:38 | 0:01:56 | 4.6 | 4.6 | 30.4 | 32.7 | 76.3 | 97.9 | 98.0 | 98.1 | 97.5 | 98.1 | 97.9 | 96.1 | 103.7 | 111.8 | 129.8 | 117.0 | 101.1 | 80.0 | 107.5 | 669.6 | 387.3 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0004.6 MAX TEMP: 098.1 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 130.0 MAX GAS TEMP: 101.1
END PRESS: 0004.6 MIN PRESS: 0002.0 MIN TEMP: 095.2 DRM1 END: 669.6 DRM2 END: 387.3 MIN PRE TEMP: 129.8 MIN GAS TEMP: 075.4
PRESS CHANGE: 002.6 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.3
EO USED PHASE: 000.0 EO USED CYCLE:000.0 MIN VAP TEMP: 117.0

STERILANT INJECTION(1) 03/10/2015 10:26:39

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 2:44:38 | 0:00:00 | 4.6 | 4.6 | 30.4 | 32.7 | 76.3 | 97.9 | 98.0 | 98.1 | 97.5 | 98.1 | 97.9 | 96.1 | 103.7 | 111.8 | 129.8 | 117.0 | 101.1 | 80.0 | 107.5 | 669.6 | 387.3 | 0.7 |
| 2:45:38 | 0:01:00 | 4.9 | 4.9 | 30.4 | 33.1 | 77.1 | 98.0 | 98.1 | 98.2 | 97.7 | 98.3 | 97.9 | 96.3 | 102.0 | 106.0 | 128.9 | 116.6 | 97.7 | 79.5 | 107.6 | 669.6 | 381.6 | 0.7 |
| 2:46:38 | 0:02:00 | 5.4 | 5.3 | 30.4 | 35.0 | 81.2 | 98.1 | 98.2 | 98.1 | 97.9 | 98.3 | 98.0 | 96.4 | 101.4 | 103.8 | 132.7 | 116.1 | 102.5 | 79.1 | 107.5 | 669.6 | 381.6 | 20.3 |
| 2:47:38 | 0:03:00 | 5.7 | 5.6 | 30.4 | 36.8 | 85.7 | 97.9 | 98.0 | 97.9 | 97.9 | 98.1 | 97.7 | 96.4 | 101.0 | 103.1 | 132.5 | 115.7 | 111.9 | 78.7 | 107.4 | 669.6 | 381.6 | 47.4 |
| 2:48:39 | 0:04:00 | 6.1 | 6.0 | 30.4 | 38.1 | 89.1 | 97.8 | 97.8 | 97.8 | 97.9 | 98.0 | 97.7 | 96.5 | 100.8 | 102.5 | 132.4 | 115.5 | 109.7 | 78.4 | 107.4 | 669.6 | 381.6 | 65.4 |
| 2:49:39 | 0:05:00 | 6.4 | 6.4 | 30.4 | 39.2 | 91.6 | 97.8 | 97.8 | 97.8 | 97.9 | 98.0 | 97.7 | 96.5 | 100.6 | 102.3 | 132.0 | 115.1 | 107.7 | 78.2 | 107.4 | 669.6 | 381.1 | 83.5 |
| 2:50:39 | 0:06:00 | 6.8 | 6.7 | 30.4 | 40.4 | 94.2 | 97.9 | 97.9 | 97.9 | 98.0 | 98.0 | 97.7 | 96.6 | 100.4 | 102.0 | 131.1 | 114.8 | 106.1 | 78.0 | 107.4 | 669.6 | 380.5 | 103.0 |
| 2:51:39 | 0:07:01 | 7.1 | 7.1 | 30.4 | 41.8 | 97.2 | 98.0 | 97.9 | 97.9 | 98.1 | 98.0 | 97.7 | 96.6 | 100.2 | 101.8 | 130.2 | 114.4 | 104.8 | 77.8 | 107.4 | 669.6 | 37[illegible].3 | 121.2 |
| 2:52:39 | 0:08:01 | 7.6 | 7.5 | 30.4 | 42.7 | 99.3 | 98.0 | 97.9 | 97.9 | 98.1 | 98.0 | 97.7 | 96.6 | 100.1 | 101.7 | 129.2 | 114.2 | 104.1 | 77.7 | 107.4 | 66[illegible].6 | 37[illegible].1 | 142.2 |
| 2:53:39 | 0:09:01 | 8.0 | 7.9 | 30.4 | 43.6 | 100.0 | 97.9 | 97.8 | 97.9 | 98.1 | 97.9 | 97.7 | 96.6 | 100.0 | 101.5 | 132.8 | 116.7 | 103.7 | 77.5 | 109.3 | 669.[illegible] | [illegible]75.1 | 160.3 |
| 2:54:39 | 0:10:01 | 8.2 | 8.1 | 30.4 | 44.5 | 100.0 | 97.7 | 97.5 | 97.6 | 98.0 | 97.7 | 97.5 | 96.6 | 99.8 | 101.3 | 132.8 | 117.2 | 112.4 | 77.4 | 107.9 | 66[illegible].6 | 375.1 | 181.4 |
| 2:55:39 | 0:11:01 | 8.6 | 8.5 | 30.4 | 45.4 | 100.0 | 97.6 | 97.3 | 97.5 | 97.9 | 97.5 | 97.4 | 96.5 | 99.7 | 101.2 | 132.1 | 116.9 | 111.8 | 77.3 | 107.8 | 669.6 | 375.0 | 199.4 |
| 2:56:39 | 0:12:01 | 8.9 | 8.9 | 30.4 | 45.8 | 100.0 | 97.6 | 97.4 | 97.6 | 97.9 | 97.5 | 97.4 | 96.5 | 99.6 | 101.1 | 131.9 | 116.6 | 110.3 | 77.2 | 107.8 | 669.[illegible] | 375.2 | 216.0 |
| 2:57:39 | 0:13:01 | 9.4 | 9.3 | 30.4 | 46.7 | 100.0 | 97.6 | 97.4 | 97.6 | 97.9 | 97.6 | 97.4 | 96.5 | 99.5 | 101.0 | 131.8 | 116.2 | 108.8 | 77.1 | 107.7 | 669.6 | 374.5 | 234.1 |
| 2:58:40 | 0:14:01 | 9.7 | 9.6 | 30.4 | 47.7 | 100.0 | 97.7 | 97.5 | 97.7 | 97.9 | 97.6 | 97.4 | 96.5 | 99.4 | 100.9 | 130.8 | 115.9 | 107.2 | 77.0 | 107.[illegible] | [illegible]69.6 | 372.3 | 253.7 |
| 2:59:40 | 0:15:01 | 10.1 | 10.0 | 30.4 | 48.6 | 100.0 | 97.7 | 97.5 | 97.7 | 97.9 | 97.6 | 97.5 | 96.5 | 99.3 | 100.8 | 129.7 | 115.7 | 106.4 | 76.9 | 107.6 | 669.6 | 367.7 | 273.3 |
| 3:00:40 | 0:16:01 | 10.4 | 10.4 | 30.4 | 49.0 | 100.0 | 97.7 | 97.5 | 97.7 | 97.9 | 97.6 | 97.4 | 96.4 | 99.2 | 100.7 | 129.9 | 115.1 | 102.6 | 76.8 | 107.5 | 669.6 | 366.9 | 294.4 |
| 3:01:40 | 0:17:02 | 10.9 | 10.8 | 30.4 | 49.9 | 100.0 | 97.4 | 97.0 | 97.4 | 97.7 | 97.1 | 97.2 | 96.3 | 99.1 | 100.6 | 133.0 | 114.7 | 104.3 | 76.8 | 107.4 | 669.6 | 366.9 | 317.0 |
| 3:02:40 | 0:18:02 | 11.2 | 11.1 | 30.4 | 50.8 | 100.0 | 97.1 | 96.6 | 97.2 | 97.4 | 96.7 | 96.9 | 96.0 | 100.1 | 106.2 | 132.6 | 114.4 | 110.8 | 76.7 | 107.4 | 669.6 | 366.9 | 339.6 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000147

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:03:40 | 0:19:02 | 11.6 | 11.5 | 30.4 | 51.3 | 100.0 | 97.0 | 96.5 | 97.1 | 97.3 | 96.7 | 96.9 | 95.9 | 100.3 | 104.3 | 132.1 | 114.1 | 107.9 | 76.6 | 107.3 | 669.6 | 366.9 | 356.2 |
| 3:04:40 | 0:20:02 | 11.9 | 11.8 | 30.4 | 51.8 | 100.0 | 97.0 | 96.7 | 97.2 | 97.2 | 96.8 | 96.9 | 95.8 | 101.2 | 107.7 | 131.9 | 116.4 | 108.7 | 76.6 | 109.4 | 669.6 | 366.9 | 375.8 |
| 3:05:40 | 0:21:02 | 12.3 | 12.2 | 30.4 | 52.7 | 100.0 | 97.2 | 96.9 | 97.4 | 97.4 | 97.0 | 97.1 | 96.0 | 100.3 | 103.6 | 131.7 | 117.1 | 108.5 | 76.5 | 107.8 | 669.6 | 366.8 | 395.3 |
| 3:06:40 | 0:22:02 | 12.6 | 12.5 | 30.4 | 53.1 | 100.0 | 97.3 | 97.0 | 97.4 | 97.4 | 97.2 | 97.2 | 96.1 | 99.8 | 101.8 | 131.0 | 116.9 | 107.7 | 76.4 | 107.7 | 669.6 | 364.6 | 415.0 |
| 3:07:40 | 0:23:02 | 13.0 | 12.9 | 30.4 | 54.0 | 100.0 | 97.4 | 97.1 | 97.6 | 97.6 | 97.3 | 97.3 | 96.2 | 99.5 | 101.3 | 130.1 | 116.7 | 107.3 | 76.4 | 107.7 | 669.6 | 360.1 | 436.1 |
| 3:08:41 | 0:24:02 | 13.4 | 13.4 | 30.4 | 54.5 | 100.0 | 97.5 | 97.2 | 97.6 | 97.6 | 97.4 | 97.4 | 96.3 | 99.4 | 101.0 | 128.9 | 116.1 | 107.2 | 76.3 | 107.6 | 669.6 | 358.7 | 457.1 |
| 3:09:41 | 0:25:02 | 13.7 | 13.6 | 30.4 | 55.4 | 100.0 | 97.3 | 97.0 | 97.4 | 97.4 | 97.1 | 97.1 | 96.1 | 99.2 | 100.7 | 132.8 | 115.7 | 104.1 | 76.2 | 107.6 | 669.6 | 358.7 | 479.8 |
| 3:10:41 | 0:26:02 | 14.1 | 14.1 | 30.4 | 56.3 | 100.0 | 96.9 | 96.6 | 97.2 | 97.0 | 96.6 | 96.9 | 95.7 | 99.9 | 105.4 | 132.8 | 115.3 | 108.7 | 76.2 | 107.5 | 669.6 | 358.7 | 505.4 |

STERILANT INJECTION(1) SUMMARY 03/10/2015 10:53:01

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:11:02 | 0:26:23 | 14.2 | 14.1 | 30.4 | 56.3 | 100.0 | 96.9 | 96.6 | 97.2 | 97.0 | 96.7 | 96.9 | 95.7 | 101.4 | 108.2 | 132.5 | 115.3 | 111.8 | 76.2 | 107.4 | 669.6 | 358.7 | 510.0 |

START PRESS: 0004.6 MAX PRESS: 0014.2 MAX TEMP: 098.4 DRM1 START: 669.6 DRM2 START: 387.3 MAX PRE TEMP: 133.1 MAX GAS TEMP: 112.9
END PRESS: 0014.2 MIN PRESS: 0004.6 MIN TEMP: 095.7 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.6 MIN GAS TEMP: 095.1
PRESS CHANGE: 009.6 ETO USED 1: 000.0 ETO USED 2: 028.5 MAX VAP TEMP: 117.3
EO USED PHASE: 028.5 EO USED CYCLE: 028.5 MIN VAP TEMP: 113.9

N2 BLANKET(1) 03/10/2015 10:53:01

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:11:02 | 0:00:00 | 14.2 | 14.1 | 30.4 | 56.3 | 100.0 | 96.9 | 96.6 | 97.2 | 97.0 | 96.7 | 96.9 | 95.7 | 101.4 | 108.2 | 132.5 | 115.3 | 111.8 | 76.2 | 107.4 | 669.6 | 358.7 | 510.0 |
| 3:12:02 | 0:01:00 | 14.6 | 14.5 | 30.4 | 56.7 | 100.0 | 96.9 | 96.6 | 97.2 | 96.9 | 96.7 | 96.9 | 95.6 | 100.0 | 103.3 | 132.2 | 114.9 | 102.8 | 76.1 | 107.4 | 669.6 | 358.7 | 529.6 |
| 3:13:02 | 0:02:00 | 14.9 | 14.8 | 30.4 | 57.2 | 100.0 | 97.1 | 96.9 | 97.4 | 97.1 | 97.1 | 97.2 | 95.9 | 100.8 | 105.6 | 131.9 | 114.8 | 101.4 | 76.1 | 107.4 | 669.6 | 358.8 | 546.2 |
| 3:14:02 | 0:03:00 | 15.3 | 15.3 | 30.4 | 57.2 | 100.0 | 97.3 | 97.1 | 97.6 | 97.3 | 97.2 | 97.3 | 96.0 | 100.0 | 102.7 | 131.7 | 114.8 | 101.8 | 76.1 | 107.4 | 669.6 | 358.7 | 550.7 |
| 3:15:02 | 0:04:00 | 15.6 | 15.6 | 30.4 | 57.2 | 100.0 | 97.4 | 97.1 | 97.6 | 97.4 | 97.3 | 97.3 | 96.1 | 99.6 | 101.6 | 131.5 | 114.7 | 102.0 | 76.1 | 107.4 | 669.6 | 358.7 | 549.1 |
| 3:16:02 | 0:05:00 | 16.1 | 16.0 | 30.4 | 57.2 | 100.0 | 97.5 | 97.2 | 97.7 | 97.5 | 97.4 | 97.4 | 96.1 | 99.4 | 101.1 | 131.4 | 114.6 | 102.1 | 76.0 | 107.3 | 669.6 | 358.8 | 547.7 |
| 3:17:02 | 0:06:00 | 16.4 | 16.3 | 30.4 | 57.2 | 100.0 | 97.5 | 97.3 | 97.8 | 97.5 | 97.5 | 97.4 | 96.2 | 99.3 | 100.9 | 131.2 | 114.6 | 102.2 | 76.1 | 107.3 | 669.6 | 358.7 | 544.7 |
| 3:18:02 | 0:07:01 | 16.8 | 16.7 | 30.4 | 57.2 | 100.0 | 97.6 | 97.3 | 97.8 | 97.6 | 97.5 | 97.4 | 96.2 | 99.2 | 100.7 | 131.1 | 114.5 | 102.1 | 76.0 | 107.2 | 669.6 | 358.7 | 541.7 |
| 3:19:03 | 0:08:01 | 17.1 | 17.0 | 30.4 | 57.7 | 100.0 | 97.6 | 97.4 | 97.8 | 97.7 | 97.5 | 97.5 | 96.3 | 99.0 | 100.6 | 130.8 | 114.4 | 102.1 | 76.1 | 107.3 | 669.6 | 358.7 | 538.6 |
| 3:20:03 | 0:09:01 | 17.5 | 17.4 | 30.4 | 57.2 | 100.0 | 97.6 | 97.4 | 97.8 | 97.6 | 97.6 | 97.6 | 96.3 | 98.9 | 100.4 | 130.8 | 114.3 | 101.9 | 76.1 | 107.2 | 669.6 | 358.7 | 535.6 |
| 3:21:03 | 0:10:01 | 17.8 | 17.7 | 30.4 | 57.7 | 100.0 | 97.7 | 97.5 | 97.9 | 97.7 | 97.5 | 97.6 | 96.3 | 98.8 | 100.3 | 130.8 | 114.2 | 101.8 | 76.1 | 107.1 | 669.6 | 358.7 | 534.1 |
| 3:22:03 | 0:11:01 | 18.2 | 18.1 | 30.4 | 57.7 | 100.0 | 97.7 | 97.5 | 97.9 | 97.7 | 97.6 | 97.6 | 96.4 | 98.7 | 100.2 | 130.7 | 114.1 | 101.6 | 76.1 | 107.1 | 669.6 | 358.7 | 531.1 |
| 3:23:03 | 0:12:01 | 18.6 | 18.5 | 30.4 | 57.6 | 100.0 | 97.7 | 97.5 | 97.9 | 97.7 | 97.6 | 97.6 | 96.4 | 98.6 | 100.1 | 130.6 | 115.5 | 101.4 | 76.1 | 108.6 | 669.6 | 358.7 | 529.5 |
| 3:24:03 | 0:13:01 | 18.9 | 18.8 | 30.4 | 57.7 | 100.0 | 97.7 | 97.5 | 98.0 | 97.7 | 97.6 | 97.7 | 96.4 | 98.6 | 100.0 | 130.5 | 117.5 | 101.7 | 76.2 | 107.7 | 669.6 | 358.8 | 526.5 |
| 3:25:03 | 0:14:01 | 19.3 | 19.2 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.0 | 97.8 | 97.6 | 97.6 | 96.4 | 98.5 | 100.0 | 130.3 | 117.5 | 101.9 | 76.2 | 107.6 | 669.6 | 358.7 | 526.6 |
| 3:26:03 | 0:15:01 | 19.6 | 19.5 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.0 | 97.8 | 97.7 | 97.7 | 96.4 | 98.4 | 99.9 | 130.2 | 117.4 | 102.1 | 76.2 | 107.6 | 669.6 | 358.8 | 525.1 |
| 3:27:03 | 0:16:02 | 20.0 | 20.0 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.1 | 97.8 | 97.7 | 97.7 | 96.5 | 98.3 | 99.8 | 130.0 | 117.3 | 102.2 | 76.2 | 107.6 | 669.6 | 358.7 | 523.5 |
| 3:28:04 | 0:17:02 | 20.4 | 20.3 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.1 | 97.8 | 97.6 | 97.7 | 96.4 | 98.2 | 99.6 | 130.1 | 117.2 | 102.2 | 76.2 | 107.6 | 669.6 | 358.7 | 522.0 |
| 3:29:04 | 0:18:02 | 20.8 | 20.7 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.1 | 97.8 | 97.7 | 97.7 | 96.5 | 98.2 | 99.6 | 129.9 | 117.2 | 102.3 | 76.2 | 107.6 | 669.6 | 358.8 | 520.6 |
| 3:30:04 | 0:19:02 | 21.1 | 21.0 | 30.4 | 57.7 | 100.0 | 97.8 | 97.5 | 98.1 | 97.8 | 97.7 | 97.7 | 96.5 | 98.1 | 99.5 | 129.9 | 117.1 | 102.3 | 76.2 | 107.5 | 669.6 | 358.8 | 519.0 |
| 3:31:04 | 0:20:02 | 21.5 | 21.4 | 30.4 | 57.7 | 100.0 | 97.9 | 97.6 | 98.1 | 97.9 | 97.7 | 97.7 | 96.5 | 98.0 | 100.4 | 129.8 | 117.0 | 102.1 | 76.2 | 107.5 | 669.6 | 358.8 | 517.5 |
| 3:32:04 | 0:21:02 | 21.8 | 21.7 | 30.4 | 57.6 | 100.0 | 97.9 | 97.6 | 98.1 | 97.9 | 97.8 | 97.8 | 96.5 | 99.8 | 104.7 | 129.6 | 116.9 | 102.0 | 76.2 | 107.5 | 669.6 | 358.8 | 515.9 |
| 3:33:04 | 0:22:02 | 22.2 | 22.1 | 30.4 | 57.7 | 100.0 | 97.9 | 97.7 | 98.2 | 97.9 | 97.8 | 97.9 | 96.6 | 98.9 | 101.6 | 129.5 | 116.8 | 101.9 | 76.1 | 107.5 | 669.6 | 358.7 | 516.0 |
| 3:34:04 | 0:23:02 | 22.5 | 22.5 | 30.4 | 57.7 | 100.0 | 97.9 | 97.7 | 98.2 | 97.9 | 97.9 | 97.9 | 96.6 | 98.6 | 100.6 | 129.4 | 116.7 | 101.9 | 76.0 | 107.4 | 669.6 | 358.7 | 514.5 |
| 3:35:04 | 0:24:02 | 23.0 | 22.9 | 30.4 | 57.6 | 100.0 | 98.0 | 97.8 | 98.2 | 98.0 | 97.8 | 97.9 | 96.6 | 98.4 | 100.1 | 129.4 | 116.6 | 101.7 | 76.0 | 107.4 | 669.6 | 358.8 | 512.9 |
| 3:36:04 | 0:25:02 | 23.3 | 23.2 | 30.4 | 58.1 | 100.0 | 98.0 | 97.7 | 98.2 | 98.0 | 97.9 | 97.9 | 96.6 | 98.3 | 99.9 | 129.2 | 116.5 | 101.6 | 76.0 | 107.4 | 669.6 | 358.7 | 512.9 |
| 3:37:04 | 0:26:03 | 23.7 | 23.6 | 30.4 | 58.1 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 97.9 | 96.6 | 98.2 | 99.7 | 129.2 | 116.4 | 101.6 | 76.0 | 107.4 | 669.6 | 358.8 | 511.5 |
| 3:38:05 | 0:27:03 | 24.0 | 23.9 | 30.4 | 58.1 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 98.1 | 99.6 | 129.2 | 116.3 | 101.4 | 76.0 | 107.4 | 669.6 | 358.7 | 510.0 |
| 3:39:05 | 0:28:03 | 24.4 | 24.3 | 30.4 | 58.1 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 97.9 | 96.6 | 98.0 | 99.5 | 129.0 | 116.2 | 101.4 | 76.0 | 107.4 | 669.6 | 358.7 | 510.0 |
| 3:40:05 | 0:29:03 | 24.8 | 24.7 | 30.4 | 58.1 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 98.0 | 99.5 | 129.0 | 116.2 | 101.3 | 76.0 | 107.3 | 669.6 | 358.7 | 509.9 |
| 3:41:05 | 0:30:03 | 25.1 | 25.0 | 30.4 | 58.5 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.6 | 97.3 | 97.5 | 132.6 | 116.1 | 101.3 | 76.0 | 107.3 | 669.6 | 358.7 | 509.9 |
| 3:42:05 | 0:31:03 | 25.5 | 25.4 | 30.4 | 58.6 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 96.6 | 96.0 | 133.6 | 116.0 | 101.1 | 76.0 | 107.4 | 669.6 | 358.7 | 508.5 |
| 3:43:05 | 0:32:03 | 25.8 | 25.7 | 30.4 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.9 | 98.0 | 96.7 | 96.8 | 96.8 | 133.5 | 115.9 | 101.2 | 76.0 | 107.3 | 669.6 | 358.7 | 508.5 |
| 3:44:05 | 0:33:03 | 26.2 | 26.1 | 30.4 | 58.6 | 100.0 | 98.0 | 97.8 | 98.3 | 98.0 | 97.9 | 97.9 | 96.6 | 101.6 | 114.2 | 133.6 | 115.9 | 101.1 | 76.0 | 107.3 | 669.6 | 358.7 | 506.9 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000148

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:45:05 | 0:34:03 | 26.2 | 26.1 | 30.4 | 58.1 | 100.0 | 98.2 | 98.0 | 98.4 | 98.2 | 98.1 | 98.0 | 96.7 | 105.2 | 122.6 | 133.5 | 115.7 | 99.6 | 76.0 | 107.3 | 669.6 | 358.8 | 502.4 |
| 3:46:05 | 0:35:03 | 26.2 | 26.1 | 30.4 | 57.7 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.2 | 96.9 | 100.0 | 104.8 | 133.4 | 115.7 | 97.7 | 76.0 | 107.4 | 669.6 | 358.8 | 494.9 |
| 3:47:05 | 0:36:04 | 26.2 | 26.1 | 30.4 | 57.7 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.2 | 96.9 | 97.9 | 98.0 | 133.4 | 115.6 | 96.0 | 76.0 | 107.3 | 669.6 | 358.8 | 491.9 |
| 3:48:06 | 0:37:04 | 26.3 | 26.1 | 30.4 | 58.1 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.1 | 98.1 | 96.9 | 97.3 | 96.3 | 133.3 | 115.5 | 94.4 | 76.0 | 107.3 | 669.6 | 358.7 | 490.3 |

N2 BLANKET(1) SUMMARY 03/10/2015 11:31:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:49:02 | 0:38:00 | 26.3 | 26.1 | 30.3 | 58.1 | 100.0 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.9 | 97.5 | 97.3 | 133.3 | 115.5 | 93.2 | 76.0 | 107.3 | 669.6 | 358.7 | 490.4 |

START PRESS: 0014.2 MAX PRESS: 0026.3 MAX TEMP: 098.3 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.7 MAX GAS TEMP: 111.8
END PRESS: 0026.3 MIN PRESS: 0014.2 MIN TEMP: 095.6 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.9 MIN GAS TEMP: 093.2
PRESS CHANGE: 012.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.5
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

EXPOSURE(1) 03/10/2015 11:31:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 3:49:03 | 0:00:00 | 26.3 | 26.1 | 30.3 | 58.1 | 100.0 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.9 | 97.5 | 97.3 | 133.3 | 115.5 | 93.2 | 76.0 | 107.3 | 669.6 | 358.7 | 490.4 |
| 3:50:02 | 0:01:00 | 26.3 | 26.1 | 30.3 | 57.7 | 100.0 | 98.2 | 97.9 | 98.4 | 98.2 | 97.9 | 98.0 | 96.8 | 97.5 | 98.0 | 133.3 | 115.4 | 91.9 | 76.0 | 107.3 | 669.6 | 358.8 | 488.8 |
| 3:51:02 | 0:02:00 | 26.3 | 26.1 | 30.3 | 58.1 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.0 | 96.8 | 97.7 | 98.4 | 133.2 | 115.3 | 90.7 | 76.0 | 107.2 | 669.6 | 358.7 | 488.8 |
| 3:52:02 | 0:03:00 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.0 | 96.8 | 97.7 | 98.6 | 133.2 | 115.2 | 89.7 | 76.0 | 107.3 | 669.6 | 358.7 | 490.4 |
| 3:53:02 | 0:04:00 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.1 | 97.8 | 98.3 | 98.1 | 97.9 | 98.0 | 96.8 | 97.5 | 98.7 | 133.1 | 115.2 | 88.8 | 76.0 | 107.2 | 669.6 | 358.7 | 490.4 |
| 3:54:03 | 0:05:00 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.0 | 96.7 | 97.5 | 98.8 | 133.1 | 115.1 | 87.9 | 75.9 | 107.1 | 669.6 | 358.7 | 490.4 |
| 3:55:03 | 0:06:00 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.8 | 98.0 | 96.7 | 97.5 | 98.7 | 133.0 | 115.1 | 87.2 | 76.0 | 107.1 | 669.6 | 358.7 | 490.4 |
| 3:56:03 | 0:07:01 | 26.3 | 26.1 | 30.3 | 58.5 | 100.0 | 98.0 | 97.7 | 98.3 | 98.1 | 97.8 | 98.0 | 96.7 | 97.4 | 98.8 | 133.0 | 115.0 | 86.5 | 75.9 | 107.1 | 669.6 | 358.7 | 490.3 |
| 3:57:03 | 0:08:01 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.8 | 97.9 | 96.6 | 97.3 | 98.7 | 132.9 | 114.9 | 85.7 | 75.8 | 107.0 | 669.6 | 358.8 | 490.3 |
| 3:58:03 | 0:09:01 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.0 | 97.6 | 98.3 | 98.0 | 97.8 | 97.9 | 96.7 | 97.4 | 100.6 | 132.8 | 114.8 | 85.1 | 75.8 | 107.0 | 669.6 | 358.7 | 490.4 |
| 3:59:03 | 0:10:01 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.0 | 96.7 | 104.3 | 122.2 | 132.7 | 114.7 | 84.6 | 75.7 | 106.9 | 669.6 | 358.7 | 490.4 |
| 4:00:03 | 0:11:01 | 26.3 | 26.1 | 30.3 | 59.0 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.2 | 96.9 | 102.0 | 111.8 | 132.8 | 114.7 | 84.1 | 75.7 | 107.0 | 669.6 | 358.7 | 490.4 |
| 4:01:03 | 0:12:01 | 26.3 | 26.1 | 30.3 | 58.6 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.3 | 96.9 | 98.7 | 100.6 | 132.7 | 114.6 | 83.6 | 75.7 | 107.0 | 669.6 | 358.7 | 491.8 |
| 4:02:03 | 0:13:01 | 26.3 | 26.1 | 30.3 | 59.0 | 100.0 | 98.4 | 98.1 | 98.6 | 98.4 | 98.2 | 98.2 | 96.9 | 97.3 | 96.3 | 132.7 | 114.5 | 83.2 | 75.7 | 107.0 | 669.6 | 358.7 | 491.8 |
| 4:03:03 | 0:14:01 | 26.3 | 26.1 | 30.3 | 59.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 97.4 | 96.8 | 132.7 | 114.5 | 82.8 | 75.6 | 106.9 | 669.6 | 358.7 | 491.9 |
| 4:04:04 | 0:15:01 | 26.3 | 26.1 | 30.3 | 59.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.0 | 98.2 | 96.9 | 97.5 | 97.7 | 132.6 | 114.4 | 82.4 | 75.6 | 106.9 | 669.6 | 358.7 | 491.9 |
| 4:05:04 | 0:16:01 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.9 | 97.7 | 98.3 | 132.5 | 114.3 | 82.0 | 75.6 | 106.9 | 669.6 | 358.7 | 491.8 |
| 4:06:04 | 0:17:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.8 | 97.7 | 98.6 | 132.5 | 114.3 | 81.8 | 75.6 | 106.9 | 669.6 | 358.7 | 491.9 |
| 4:07:04 | 0:18:02 | 26.3 | 26.1 | 30.3 | 59.0 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.8 | 97.7 | 98.7 | 132.5 | 114.2 | 81.4 | 75.6 | 106.9 | 669.6 | 358.8 | 491.9 |
| 4:08:04 | 0:19:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.8 | 97.5 | 98.7 | 132.4 | 114.1 | 81.1 | 75.6 | 106.8 | 669.6 | 358.7 | 491.9 |
| 4:09:04 | 0:20:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.8 | 97.5 | 98.8 | 132.4 | 114.1 | 80.9 | 75.6 | 106.8 | 669.6 | 358.8 | 491.9 |
| 4:10:04 | 0:21:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 97.9 | 98.1 | 96.8 | 97.5 | 98.8 | 132.3 | 117.3 | 80.7 | 75.7 | 107.7 | 669.6 | 358.7 | 490.3 |
| 4:11:04 | 0:22:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.1 | 96.8 | 97.4 | 98.8 | 132.3 | 117.6 | 80.5 | 75.7 | 107.3 | 669.6 | 358.7 | 490.5 |
| 4:12:04 | 0:23:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.2 | 97.8 | 98.6 | 98.2 | 97.9 | 98.1 | 96.8 | 97.4 | 98.7 | 132.2 | 117.6 | 80.2 | 75.7 | 107.3 | 669.6 | 358.7 | 490.4 |
| 4:13:04 | 0:24:02 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.1 | 96.8 | 97.3 | 98.6 | 132.2 | 117.5 | 80.0 | 75.7 | 107.3 | 669.6 | 358.7 | 490.4 |
| 4:14:05 | 0:25:02 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.8 | 97.3 | 98.6 | 132.0 | 117.4 | 79.8 | 75.7 | 107.3 | 669.6 | 358.7 | 490.3 |
| 4:15:05 | 0:26:02 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.1 | 96.8 | 97.3 | 98.6 | 132.0 | 117.4 | 79.8 | 75.7 | 107.3 | 669.6 | 358.7 | 490.3 |
| 4:16:05 | 0:27:03 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.5 | 131.9 | 117.3 | 79.6 | 75.7 | 107.3 | 669.6 | 358.7 | 490.4 |
| 4:17:05 | 0:28:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.8 | 98.0 | 96.7 | 97.1 | 98.5 | 132.0 | 117.2 | 79.3 | 75.8 | 107.3 | 669.6 | 358.7 | 490.4 |
| 4:18:05 | 0:29:03 | 26.3 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 97.1 | 98.4 | 131.9 | 117.1 | 79.3 | 75.7 | 107.3 | 669.6 | 358.7 | 490.4 |
| 4:19:05 | 0:30:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.0 | 96.7 | 97.1 | 98.4 | 131.9 | 117.0 | 79.1 | 75.7 | 107.3 | 669.6 | 358.8 | 490.3 |
| 4:20:05 | 0:31:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 97.9 | 96.6 | 96.9 | 98.4 | 131.9 | 116.9 | 78.8 | 75.7 | 107.3 | 669.6 | 358.8 | 490.3 |
| 4:21:05 | 0:32:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.7 | 97.9 | 96.5 | 97.1 | 98.3 | 131.7 | 116.9 | 78.8 | 75.7 | 107.2 | 669.6 | 358.7 | 490.3 |
| 4:22:05 | 0:33:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 98.0 | 97.7 | 97.9 | 96.6 | 96.9 | 98.3 | 131.6 | 116.8 | 78.7 | 75.6 | 107.1 | 669.6 | 358.8 | 490.4 |
| 4:23:05 | 0:34:03 | 26.2 | 26.1 | 30.3 | 59.5 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.6 | 96.8 | 98.1 | 131.6 | 116.7 | 78.4 | 75.6 | 107.1 | 669.6 | 358.7 | 490.4 |
| 4:24:06 | 0:35:03 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 96.8 | 98.1 | 131.7 | 116.6 | 78.4 | 75.6 | 107.3 | 669.6 | 358.8 | 490.4 |
| 4:25:06 | 0:36:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 99.2 | 107.7 | 131.5 | 116.5 | 78.2 | 75.5 | 107.1 | 669.6 | 358.7 | 490.4 |
| 4:26:06 | 0:37:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 99.7 | 106.6 | 131.5 | 116.4 | 78.0 | 75.5 | 107.2 | 669.6 | 358.8 | 490.4 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000149

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:27:06 | 0:38:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 97.9 | 100.4 | 131.3 | 116.4 | 77.9 | 75.5 | 107.2 | 669.6 | 358.7 | 490.3 |
| 4:28:06 | 0:39:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.4 | 96.3 | 131.2 | 116.3 | 77.9 | 75.5 | 107.1 | 669.6 | 358.8 | 490.3 |
| 4:29:06 | 0:40:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.6 | 96.7 | 131.1 | 116.3 | 77.8 | 75.4 | 107.1 | 669.6 | 358.7 | 490.4 |
| 4:30:06 | 0:41:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 97.3 | 131.2 | 116.2 | 77.7 | 75.6 | 107.2 | 669.6 | 358.8 | 490.3 |
| 4:31:06 | 0:42:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.6 | 96.8 | 97.6 | 131.2 | 116.1 | 77.6 | 75.5 | 107.1 | 669.6 | 358.8 | 488.8 |
| 4:32:06 | 0:43:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.8 | 97.8 | 131.1 | 116.0 | 77.6 | 75.5 | 107.1 | 669.6 | 358.7 | 490.4 |
| 4:33:07 | 0:44:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 96.8 | 99.8 | 131.0 | 116.0 | 77.5 | 75.5 | 107.0 | 669.6 | 358.8 | 488.8 |
| 4:34:07 | 0:45:04 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 103.8 | 121.5 | 131.0 | 115.9 | 77.3 | 75.6 | 107.1 | 669.6 | 358.7 | 488.8 |
| 4:35:07 | 0:46:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 103.4 | 117.0 | 130.9 | 115.8 | 77.3 | 75.5 | 107.1 | 669.6 | 358.7 | 488.8 |
| 4:36:07 | 0:47:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.4 | 98.4 | 96.9 | 99.2 | 102.5 | 130.8 | 115.8 | 77.3 | 75.5 | 107.1 | 669.6 | 358.7 | 488.9 |
| 4:37:07 | 0:48:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.4 | 98.1 | 98.7 | 98.4 | 98.2 | 98.3 | 96.9 | 97.5 | 97.2 | 130.8 | 115.7 | 77.3 | 75.6 | 107.1 | 669.6 | 358.7 | 488.9 |
| 4:38:07 | 0:49:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.4 | 98.1 | 98.7 | 98.3 | 98.2 | 98.3 | 96.9 | 97.3 | 96.8 | 130.8 | 115.7 | 77.2 | 75.6 | 107.1 | 669.6 | 358.7 | 488.8 |
| 4:39:07 | 0:50:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 97.4 | 97.6 | 130.7 | 115.5 | 77.1 | 75.6 | 107.1 | 669.6 | 358.7 | 488.8 |
| 4:40:07 | 0:51:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.9 | 97.4 | 98.1 | 130.6 | 115.4 | 77.0 | 75.6 | 107.1 | 669.6 | 358.7 | 488.8 |
| 4:41:07 | 0:52:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 97.4 | 98.4 | 130.6 | 115.4 | 77.0 | 75.6 | 107.0 | 669.6 | 358.7 | 488.9 |
| 4:42:07 | 0:53:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.4 | 98.5 | 130.5 | 115.3 | 77.0 | 75.7 | 107.0 | 669.6 | 358.7 | 488.9 |
| 4:43:08 | 0:54:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.0 | 98.2 | 96.8 | 97.4 | 98.7 | 130.5 | 115.3 | 77.0 | 75.7 | 107.0 | 669.6 | 358.7 | 488.8 |
| 4:44:08 | 0:55:05 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.6 | 130.4 | 115.2 | 76.8 | 75.7 | 107.0 | 669.6 | 358.7 | 488.8 |
| 4:45:08 | 0:56:06 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.6 | 130.3 | 115.1 | 76.8 | 75.7 | 107.0 | 669.6 | 358.8 | 488.9 |
| 4:46:08 | 0:57:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 97.9 | 98.1 | 96.7 | 97.3 | 98.6 | 130.3 | 115.1 | 76.8 | 75.7 | 107.0 | 669.6 | 358.8 | 488.9 |
| 4:47:08 | 0:58:06 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.5 | 130.2 | 115.0 | 76.7 | 75.6 | 106.9 | 669.6 | 358.7 | 488.8 |
| 4:48:08 | 0:59:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.8 | 98.6 | 98.2 | 98.0 | 98.1 | 96.8 | 97.1 | 98.5 | 130.2 | 114.9 | 76.7 | 75.7 | 106.9 | 669.6 | 358.7 | 488.8 |

EXPOSURE(1) SUMMARY 03/10/2015 12:31:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:49:02 | 1:00:00 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.8 | 97.1 | 98.5 | 130.1 | 114.9 | 76.7 | 75.6 | 106.9 | 669.6 | 358.7 | 488.8 |

START PRESS: 0026.3 MAX PRESS: 0026.3 MAX TEMP: 098.4 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.3 MAX GAS TEMP: 093.2
END PRESS: 0026.2 MIN PRESS: 0026.2 MIN TEMP: 096.5 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.1 MIN GAS TEMP: 076.4
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

EXPOSURE(2) 03/10/2015 12:31:02

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 4:49:02 | 0:00:00 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.8 | 97.1 | 98.5 | 130.1 | 114.9 | 76.7 | 75.6 | 106.9 | 669.6 | 358.7 | 488.8 |
| 4:50:02 | 0:01:00 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.4 | 130.1 | 114.8 | 76.6 | 75.5 | 106.8 | 669.6 | 358.8 | 488.8 |
| 4:51:02 | 0:02:00 | 26.2 | 26.1 | 30.3 | 60.0 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 130.2 | 114.7 | 76.4 | 75.6 | 106.8 | 669.6 | 358.7 | 487.4 |
| 4:52:02 | 0:03:00 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.2 | 130.1 | 114.6 | 76.4 | 75.6 | 106.9 | 669.6 | 358.7 | 487.4 |
| 4:53:03 | 0:04:00 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 130.0 | 114.6 | 76.4 | 75.5 | 106.8 | 669.6 | 358.8 | 487.3 |
| 4:54:03 | 0:05:00 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.1 | 96.6 | 96.8 | 98.2 | 129.8 | 114.5 | 76.3 | 75.5 | 106.7 | 669.6 | 358.7 | 487.4 |
| 4:55:03 | 0:06:01 | 26.2 | 26.1 | 30.3 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.1 | 96.6 | 96.8 | 98.2 | 129.8 | 114.5 | 76.3 | 75.5 | 106.7 | 669.6 | 358.7 | 487.4 |
| 4:56:03 | 0:07:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.1 | 96.6 | 96.8 | 98.1 | 129.8 | 114.4 | 76.3 | 75.5 | 106.7 | 669.6 | 358.8 | 487.4 |
| 4:57:03 | 0:08:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 129.7 | 114.3 | 76.2 | 75.5 | 106.7 | 669.6 | 358.7 | 487.3 |
| 4:58:03 | 0:09:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 129.6 | 114.2 | 76.2 | 75.5 | 106.6 | 669.6 | 358.7 | 487.3 |
| 4:59:03 | 0:10:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.1 | 96.6 | 96.6 | 98.0 | 129.5 | 114.1 | 76.2 | 75.5 | 106.6 | 669.6 | 358.7 | 487.4 |
| 5:00:03 | 0:11:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 129.7 | 114.1 | 76.1 | 75.6 | 106.6 | 669.6 | 358.7 | 487.4 |
| 5:01:03 | 0:12:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 98.0 | 96.5 | 96.6 | 98.0 | 129.6 | 114.5 | 76.2 | 75.5 | 107.1 | 669.6 | 358.8 | 485.8 |
| 5:02:03 | 0:13:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.7 | 98.0 | 96.5 | 96.6 | 98.0 | 129.6 | 117.4 | 76.1 | 75.6 | 107.2 | 669.6 | 358.7 | 485.8 |
| 5:03:04 | 0:14:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 98.0 | 96.5 | 97.9 | 104.9 | 129.5 | 117.6 | 76.2 | 75.6 | 107.1 | 669.6 | 358.7 | 485.8 |
| 5:04:04 | 0:15:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 104.3 | 123.5 | 129.4 | 117.5 | 76.1 | 75.6 | 107.2 | 669.6 | 358.7 | 486.0 |
| 5:05:04 | 0:16:01 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 100.2 | 107.5 | 129.4 | 117.5 | 76.1 | 75.7 | 107.2 | 669.6 | 358.8 | 485.8 |
| 5:06:04 | 0:17:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.7 | 98.6 | 129.3 | 117.3 | 76.1 | 75.6 | 107.2 | 669.6 | 358.7 | 485.8 |
| 5:07:04 | 0:18:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 97.0 | 129.3 | 117.3 | 76.1 | 75.6 | 107.3 | 669.6 | 358.7 | 485.8 |
| 5:08:04 | 0:19:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 97.5 | 129.2 | 117.2 | 76.1 | 75.6 | 107.2 | 669.6 | 358.7 | 485.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000150

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 5:09:04 | 0:20:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.0 | 129.2 | 117.1 | 76.1 | 75.6 | 107.2 | 669.6 | 358.7 | 485.8 |
| 5:10:04 | 0:21:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.3 | 98.2 | 129.1 | 117.0 | 76.0 | 75.6 | 107.2 | 669.6 | 358.8 | 485.8 |
| 5:11:04 | 0:22:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.3 | 98.3 | 129.0 | 117.0 | 76.0 | 75.6 | 107.2 | 669.6 | 358.7 | 485.9 |
| 5:12:05 | 0:23:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 133.0 | 116.9 | 76.0 | 75.6 | 107.2 | 669.6 | 358.7 | 485.9 |
| 5:13:05 | 0:24:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 134.0 | 116.8 | 76.0 | 75.7 | 107.2 | 669.6 | 358.7 | 484.3 |
| 5:14:05 | 0:25:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 133.8 | 116.7 | 75.9 | 75.6 | 107.2 | 669.6 | 358.7 | 484.3 |
| 5:15:05 | 0:26:02 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 133.8 | 116.7 | 75.9 | 75.6 | 107.2 | 669.6 | 358.7 | 484.3 |
| 5:16:05 | 0:27:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.2 | 133.7 | 116.6 | 75.8 | 75.6 | 107.2 | 669.6 | 358.7 | 484.4 |
| 5:17:05 | 0:28:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 98.2 | 133.7 | 116.5 | 75.8 | 75.6 | 107.2 | 669.6 | 358.7 | 484.4 |
| 5:18:05 | 0:29:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.1 | 96.6 | 96.8 | 98.2 | 133.7 | 116.4 | 75.8 | 75.5 | 107.1 | 669.6 | 358.7 | 484.3 |
| 5:19:05 | 0:30:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 133.7 | 116.3 | 75.8 | 75.5 | 107.1 | 669.6 | 358.7 | 484.3 |
| 5:20:05 | 0:31:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 133.7 | 116.3 | 75.8 | 75.5 | 107.1 | 669.6 | 358.7 | 484.3 |
| 5:21:05 | 0:32:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 133.6 | 116.2 | 75.8 | 75.4 | 107.1 | 669.6 | 358.7 | 484.4 |
| 5:22:06 | 0:33:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 133.4 | 116.1 | 75.8 | 75.4 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:23:06 | 0:34:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 133.5 | 116.1 | 75.7 | 75.4 | 107.1 | 669.6 | 358.7 | 484.4 |
| 5:24:06 | 0:35:03 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 98.0 | 96.5 | 96.6 | 98.0 | 133.4 | 116.0 | 75.7 | 75.4 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:25:06 | 0:36:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 98.0 | 96.5 | 96.6 | 97.9 | 133.4 | 115.9 | 75.7 | 75.5 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:26:06 | 0:37:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 98.0 | 96.5 | 96.6 | 97.9 | 133.3 | 115.8 | 75.7 | 75.4 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:27:06 | 0:38:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 98.0 | 96.5 | 96.4 | 97.9 | 133.2 | 115.8 | 75.7 | 75.5 | 107.0 | 669.6 | 358.7 | 484.4 |
| 5:28:06 | 0:39:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.5 | 98.0 | 104.8 | 133.2 | 115.7 | 75.7 | 75.5 | 107.0 | 669.6 | 358.7 | 484.4 |
| 5:29:06 | 0:40:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 104.3 | 123.5 | 133.2 | 115.6 | 75.7 | 75.5 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:30:06 | 0:41:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.8 | 100.5 | 108.7 | 133.1 | 115.5 | 75.7 | 75.5 | 107.1 | 669.6 | 358.7 | 484.3 |
| 5:31:06 | 0:42:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.7 | 99.2 | 133.1 | 115.5 | 75.7 | 75.6 | 107.1 | 669.6 | 358.7 | 484.3 |
| 5:32:07 | 0:43:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 96.9 | 133.0 | 115.4 | 75.7 | 75.6 | 107.1 | 669.6 | 358.7 | 482.8 |
| 5:33:07 | 0:44:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 97.4 | 132.9 | 115.4 | 75.8 | 75.6 | 107.0 | 669.6 | 358.7 | 484.3 |
| 5:34:07 | 0:45:04 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.3 | 97.9 | 132.9 | 115.3 | 75.7 | 75.6 | 107.0 | 669.6 | 358.7 | 482.8 |
| 5:35:07 | 0:46:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.3 | 98.2 | 132.8 | 115.2 | 75.7 | 75.6 | 107.0 | 669.6 | 358.7 | 482.8 |
| 5:36:07 | 0:47:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.1 | 98.3 | 132.8 | 115.2 | 75.8 | 75.6 | 107.0 | 669.6 | 358.7 | 482.9 |
| 5:37:07 | 0:48:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.1 | 98.3 | 132.7 | 115.1 | 75.7 | 75.6 | 107.0 | 669.6 | 358.7 | 482.8 |
| 5:38:07 | 0:49:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 132.7 | 115.0 | 75.7 | 75.6 | 106.9 | 669.6 | 358.7 | 482.8 |
| 5:39:07 | 0:50:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 132.5 | 114.9 | 75.7 | 75.6 | 106.9 | 669.6 | 358.7 | 482.9 |
| 5:40:07 | 0:51:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.9 | 98.3 | 132.7 | 114.8 | 75.7 | 75.6 | 106.9 | 669.6 | 358.7 | 482.9 |
| 5:41:07 | 0:52:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 132.5 | 114.8 | 75.6 | 75.5 | 106.8 | 669.6 | 358.7 | 482.8 |
| 5:42:08 | 0:53:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 132.5 | 114.7 | 75.6 | 75.5 | 106.8 | 669.6 | 358.7 | 482.8 |
| 5:43:08 | 0:54:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 132.5 | 114.7 | 75.6 | 75.5 | 106.8 | 669.6 | 358.7 | 482.8 |
| 5:44:08 | 0:55:05 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.8 | 98.1 | 132.3 | 114.6 | 75.6 | 75.4 | 106.7 | 669.6 | 358.7 | 482.8 |
| 5:45:08 | 0:56:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 98.1 | 132.3 | 114.5 | 75.6 | 75.4 | 106.7 | 669.6 | 358.7 | 482.9 |
| 5:46:08 | 0:57:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.1 | 132.3 | 114.5 | 75.6 | 75.5 | 106.7 | 669.6 | 358.7 | 482.8 |
| 5:47:08 | 0:58:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 132.1 | 114.4 | 75.6 | 75.4 | 106.6 | 669.6 | 358.7 | 481.3 |
| 5:48:08 | 0:59:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 132.2 | 114.3 | 75.5 | 75.4 | 106.6 | 669.6 | 358.7 | 481.3 |
| 5:49:08 | 1:00:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 96.6 | 98.0 | 132.2 | 114.3 | 75.5 | 75.4 | 106.6 | 669.6 | 358.7 | 481.4 |
| 5:50:08 | 1:01:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 132.1 | 114.2 | 75.5 | 75.4 | 106.6 | 669.6 | 358.7 | 481.4 |
| 5:51:08 | 1:02:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 132.1 | 114.1 | 75.5 | 75.4 | 106.5 | 669.6 | 358.7 | 481.3 |
| 5:52:08 | 1:03:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 98.0 | 96.5 | 96.8 | 100.8 | 132.1 | 114.1 | 75.6 | 75.5 | 106.5 | 669.6 | 358.7 | 481.3 |
| 5:53:09 | 1:04:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 103.5 | 121.7 | 131.9 | 116.8 | 75.5 | 75.5 | 107.8 | 669.6 | 358.7 | 481.3 |
| 5:54:09 | 1:05:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.8 | 101.3 | 111.4 | 131.8 | 117.4 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 5:55:09 | 1:06:06 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.8 | 98.0 | 100.2 | 131.8 | 117.4 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 5:56:09 | 1:07:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 97.1 | 131.8 | 117.3 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 5:57:09 | 1:08:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.8 | 97.1 | 97.4 | 131.7 | 117.3 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 5:58:09 | 1:09:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 97.9 | 131.6 | 117.2 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 5:59:09 | 1:10:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.2 | 131.6 | 117.1 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 6:00:09 | 1:11:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.3 | 98.4 | 131.6 | 117.1 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 6:01:09 | 1:12:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.1 | 98.4 | 131.5 | 117.0 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.2 |
| 6:02:09 | 1:13:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 131.4 | 116.9 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 6:03:10 | 1:14:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 131.4 | 116.7 | 75.5 | 75.4 | 107.1 | 669.6 | 358.7 | 481.4 |
| 6:04:10 | 1:15:07 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 97.1 | 98.3 | 131.4 | 116.7 | 75.6 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 6:05:10 | 1:16:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 131.3 | 116.6 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 481.3 |
| 6:06:10 | 1:17:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 131.2 | 116.6 | 75.5 | 75.4 | 107.1 | 669.6 | 358.7 | 481.3 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000151

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 6:07:10 | 1:18:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 131.2 | 116.4 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 481.4 |
| 6:08:10 | 1:19:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 98.2 | 131.0 | 116.4 | 75.5 | 75.4 | 107.0 | 669.6 | 358.7 | 481.3 |
| 6:09:10 | 1:20:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 131.0 | 116.3 | 75.5 | 75.4 | 107.0 | 669.6 | 358.7 | 481.3 |
| 6:10:10 | 1:21:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 131.0 | 116.3 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 481.3 |
| 6:11:10 | 1:22:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 98.1 | 130.9 | 116.2 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 481.3 |
| 6:12:10 | 1:23:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 130.8 | 116.1 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 481.3 |
| 6:13:11 | 1:24:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 130.8 | 116.0 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 481.2 |
| 6:14:11 | 1:25:08 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 97.9 | 130.8 | 116.0 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 481.3 |
| 6:15:11 | 1:26:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.8 | 115.9 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 481.4 |
| 6:16:11 | 1:27:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.7 | 97.9 | 96.5 | 96.4 | 97.8 | 130.7 | 115.8 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 481.3 |
| 6:17:11 | 1:28:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.7 | 97.9 | 96.5 | 96.6 | 97.9 | 130.6 | 115.8 | 75.5 | 75.3 | 106.9 | 669.6 | 358.7 | 479.7 |
| 6:18:11 | 1:29:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.6 | 98.4 | 97.9 | 97.7 | 98.0 | 96.5 | 96.4 | 97.8 | 130.5 | 115.7 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 481.3 |
| 6:19:11 | 1:30:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.4 | 98.9 | 130.4 | 115.6 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 481.3 |
| 6:20:11 | 1:31:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 103.3 | 121.2 | 130.4 | 115.5 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 481.4 |
| 6:21:11 | 1:32:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.7 | 102.9 | 116.3 | 130.4 | 115.5 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 479.8 |
| 6:22:12 | 1:33:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.8 | 98.8 | 102.1 | 130.4 | 115.4 | 75.5 | 75.4 | 107.0 | 669.6 | 358.7 | 479.8 |
| 6:23:12 | 1:34:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.9 | 97.1 | 96.9 | 130.3 | 115.3 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 479.9 |
| 6:24:12 | 1:35:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.1 | 130.3 | 115.3 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 479.9 |
| 6:25:12 | 1:36:09 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.8 | 130.3 | 115.2 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 479.8 |
| 6:26:12 | 1:37:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.1 | 130.1 | 115.1 | 75.5 | 75.5 | 106.9 | 669.6 | 358.7 | 479.8 |
| 6:27:12 | 1:38:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.3 | 130.1 | 115.1 | 75.5 | 75.6 | 107.0 | 669.6 | 358.8 | 479.8 |
| 6:28:12 | 1:39:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.3 | 98.4 | 130.0 | 115.0 | 75.5 | 75.5 | 106.9 | 669.6 | 358.7 | 479.8 |
| 6:29:12 | 1:40:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.3 | 98.4 | 130.0 | 114.9 | 75.5 | 75.5 | 106.9 | 669.6 | 358.7 | 479.7 |
| 6:30:12 | 1:41:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.1 | 98.4 | 129.9 | 114.8 | 75.5 | 75.5 | 106.9 | 669.6 | 358.7 | 479.8 |
| 6:31:12 | 1:42:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.4 | 129.8 | 114.8 | 75.5 | 75.5 | 106.9 | 669.6 | 358.7 | 479.9 |
| 6:32:13 | 1:43:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.1 | 96.7 | 97.1 | 98.4 | 129.8 | 114.7 | 75.5 | 75.5 | 106.8 | 669.6 | 358.7 | 479.9 |
| 6:33:13 | 1:44:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 129.7 | 114.6 | 75.5 | 75.5 | 106.7 | 669.6 | 358.7 | 479.8 |
| 6:34:13 | 1:45:10 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.9 | 98.2 | 129.7 | 114.5 | 75.4 | 75.5 | 106.7 | 669.6 | 358.7 | 479.9 |
| 6:35:13 | 1:46:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 129.7 | 114.5 | 75.4 | 75.5 | 106.7 | 669.6 | 358.7 | 479.8 |
| 6:36:13 | 1:47:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 129.5 | 114.4 | 75.5 | 75.5 | 106.7 | 669.6 | 358.7 | 479.8 |
| 6:37:13 | 1:48:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.5 | 114.3 | 75.4 | 75.4 | 106.6 | 669.6 | 358.7 | 479.8 |
| 6:38:13 | 1:49:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.8 | 98.1 | 96.6 | 96.8 | 98.1 | 129.5 | 114.3 | 75.5 | 75.5 | 106.7 | 669.6 | 358.7 | 479.8 |
| 6:39:13 | 1:50:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 98.1 | 129.4 | 114.2 | 75.5 | 75.5 | 106.6 | 669.6 | 358.7 | 479.8 |
| 6:40:13 | 1:51:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 129.3 | 114.2 | 75.5 | 75.4 | 106.5 | 669.6 | 358.7 | 479.8 |
| 6:41:13 | 1:52:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 129.2 | 114.2 | 75.4 | 75.4 | 106.5 | 669.6 | 358.7 | 479.8 |
| 6:42:14 | 1:53:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 129.2 | 117.5 | 75.5 | 75.4 | 107.2 | 669.6 | 358.7 | 478.3 |
| 6:43:14 | 1:54:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 129.3 | 117.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:44:14 | 1:55:11 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 96.4 | 97.9 | 129.2 | 117.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:45:14 | 1:56:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.5 | 96.4 | 97.8 | 129.1 | 117.5 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:46:14 | 1:57:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 129.0 | 117.4 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:47:14 | 1:58:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 129.0 | 117.4 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 478.2 |
| 6:48:14 | 1:59:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 132.7 | 117.3 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:49:14 | 2:00:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 100.4 | 110.9 | 133.6 | 117.2 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.4 |
| 6:50:14 | 2:01:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.4 | 98.3 | 103.1 | 133.5 | 117.2 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:51:14 | 2:02:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 97.5 | 100.3 | 133.6 | 117.0 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.2 |
| 6:52:15 | 2:03:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 97.3 | 99.3 | 133.5 | 117.0 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:53:15 | 2:04:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.5 | 97.3 | 98.9 | 133.4 | 116.9 | 75.4 | 75.3 | 107.1 | 669.6 | 358.7 | 478.3 |
| 6:54:15 | 2:05:12 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.5 | 97.1 | 98.7 | 133.3 | 116.9 | 75.4 | 75.3 | 107.1 | 669.6 | 358.7 | 478.4 |
| 6:55:15 | 2:06:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 97.1 | 98.5 | 133.2 | 116.8 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:56:15 | 2:07:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.9 | 98.5 | 133.2 | 116.7 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:57:15 | 2:08:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.8 | 98.3 | 133.1 | 116.6 | 75.3 | 75.3 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:58:15 | 2:09:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.8 | 98.3 | 133.1 | 116.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 478.3 |
| 6:59:15 | 2:10:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.1 | 96.5 | 96.8 | 98.3 | 133.1 | 116.5 | 75.5 | 75.4 | 107.1 | 669.6 | 358.7 | 476.8 |
| 7:00:15 | 2:11:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.8 | 98.2 | 133.0 | 116.5 | 75.5 | 75.4 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:01:15 | 2:12:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.1 | 132.9 | 116.3 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:02:16 | 2:13:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 132.9 | 116.3 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:03:16 | 2:14:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 98.0 | 96.4 | 96.6 | 98.0 | 132.9 | 116.2 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:04:16 | 2:15:13 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 132.9 | 116.1 | 75.5 | 75.5 | 107.0 | 669.6 | 358.7 | 476.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000152

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 7:05:16 | 2:16:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 97.9 | 105.0 | 132.8 | 116.0 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 476.9 |
| 7:06:16 | 2:17:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 99.4 | 106.5 | 132.8 | 116.0 | 75.5 | 75.5 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:07:16 | 2:18:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 97.9 | 98.1 | 96.5 | 97.9 | 101.0 | 132.6 | 115.9 | 75.5 | 75.5 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:08:16 | 2:19:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 96.6 | 97.2 | 132.6 | 115.8 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:09:16 | 2:20:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 97.2 | 132.5 | 115.8 | 75.5 | 75.4 | 106.9 | 669.6 | 358.7 | 476.8 |
| 7:10:16 | 2:21:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.1 | 96.5 | 96.6 | 97.6 | 132.5 | 115.7 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 476.8 |
| 7:11:16 | 2:22:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 98.0 | 96.4 | 96.6 | 97.7 | 132.4 | 115.6 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 476.8 |
| 7:12:17 | 2:23:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.8 | 132.4 | 115.5 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 476.8 |
| 7:13:17 | 2:24:14 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.8 | 132.3 | 115.4 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 476.8 |
| 7:14:17 | 2:25:14 | 26.2 | 26.0 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.8 | 97.9 | 96.5 | 96.6 | 97.8 | 132.2 | 115.4 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 476.8 |
| 7:15:17 | 2:26:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 132.1 | 115.3 | 75.4 | 75.3 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:16:17 | 2:27:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 102.5 | 118.7 | 132.2 | 115.3 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 475.2 |
| 7:17:17 | 2:28:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.7 | 105.4 | 124.3 | 132.1 | 115.2 | 75.4 | 75.3 | 106.8 | 669.6 | 358.7 | 476.8 |
| 7:18:17 | 2:29:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.4 | 98.4 | 96.9 | 99.9 | 105.5 | 132.2 | 115.1 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 476.9 |
| 7:19:17 | 2:30:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.3 | 98.3 | 96.9 | 97.8 | 98.3 | 132.0 | 115.0 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 475.3 |
| 7:20:17 | 2:31:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.4 | 98.2 | 98.7 | 98.4 | 98.2 | 98.3 | 96.9 | 97.3 | 96.7 | 131.8 | 115.0 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 475.2 |
| 7:21:17 | 2:32:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 97.4 | 131.9 | 114.9 | 75.4 | 75.3 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:22:18 | 2:33:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.4 | 98.1 | 98.7 | 98.3 | 98.1 | 98.3 | 96.9 | 97.4 | 98.1 | 131.9 | 114.8 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 475.4 |
| 7:23:18 | 2:34:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.2 | 96.9 | 97.4 | 98.4 | 131.9 | 114.8 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:24:18 | 2:35:15 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.5 | 131.7 | 114.7 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:25:18 | 2:36:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 97.3 | 98.6 | 131.6 | 114.7 | 75.5 | 75.4 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:26:18 | 2:37:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.6 | 131.6 | 114.6 | 75.5 | 75.5 | 106.8 | 669.6 | 358.7 | 475.3 |
| 7:27:18 | 2:38:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.5 | 131.6 | 114.5 | 75.5 | 75.5 | 106.7 | 669.6 | 358.7 | 475.3 |
| 7:28:18 | 2:39:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.3 | 98.6 | 131.6 | 114.4 | 75.5 | 75.5 | 106.7 | 669.6 | 358.7 | 475.4 |
| 7:29:18 | 2:40:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.5 | 131.5 | 114.4 | 75.5 | 75.6 | 106.7 | 669.6 | 358.7 | 475.3 |
| 7:30:18 | 2:41:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.1 | 96.7 | 97.1 | 98.5 | 131.4 | 114.3 | 75.5 | 75.6 | 106.7 | 669.6 | 358.7 | 475.3 |
| 7:31:18 | 2:42:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.4 | 131.4 | 114.2 | 75.5 | 75.5 | 106.6 | 669.6 | 358.7 | 475.3 |
| 7:32:19 | 2:43:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.4 | 131.3 | 114.2 | 75.5 | 75.6 | 106.6 | 669.6 | 358.7 | 475.3 |
| 7:33:19 | 2:44:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.3 | 114.4 | 75.5 | 75.6 | 106.9 | 669.6 | 358.7 | 475.3 |
| 7:34:19 | 2:45:16 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 131.2 | 117.5 | 75.4 | 75.5 | 107.2 | 669.6 | 358.7 | 475.3 |
| 7:35:19 | 2:46:17 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 131.1 | 117.6 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 475.3 |
| 7:36:19 | 2:47:17 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 131.1 | 117.6 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 475.3 |
| 7:37:19 | 2:48:17 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 131.0 | 117.5 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 475.4 |
| 7:38:19 | 2:49:17 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.1 | 131.0 | 117.4 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 475.2 |
| 7:39:19 | 2:50:17 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 130.8 | 117.3 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 475.3 |
| 7:40:19 | 2:51:17 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 130.9 | 117.3 | 75.5 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:41:19 | 2:52:17 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 98.0 | 130.9 | 117.2 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 475.3 |
| 7:42:20 | 2:53:17 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 130.8 | 117.1 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.7 |
| 7:43:20 | 2:54:17 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.7 | 117.1 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 473.8 |
| 7:44:20 | 2:55:17 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 130.7 | 117.0 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:45:20 | 2:56:18 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 130.6 | 116.9 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 473.8 |
| 7:46:20 | 2:57:18 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 130.6 | 116.9 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.7 |
| 7:47:20 | 2:58:18 | 26.2 | 26.0 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.5 | 96.3 | 97.7 | 130.5 | 116.7 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:48:20 | 2:59:18 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 130.5 | 116.7 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 473.8 |
| 7:49:20 | 3:00:18 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.2 | 97.7 | 130.4 | 116.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.8 |
| 7:50:20 | 3:01:18 | 26.1 | 26.0 | 30.3 | 60.4 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 98.8 | 107.8 | 130.3 | 116.5 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.8 |
| 7:51:20 | 3:02:18 | 26.1 | 26.1 | 30.3 | 60.4 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 104.5 | 124.5 | 130.2 | 116.4 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:52:21 | 3:03:18 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.2 | 98.2 | 96.7 | 101.4 | 111.4 | 130.1 | 116.3 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:53:21 | 3:04:18 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.9 | 98.1 | 100.2 | 130.2 | 116.3 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:54:21 | 3:05:18 | 26.2 | 26.1 | 30.3 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.0 | 130.1 | 116.2 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:55:21 | 3:06:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.3 | 97.4 | 130.1 | 116.1 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:56:21 | 3:07:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.0 | 130.0 | 116.1 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:57:21 | 3:08:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.3 | 129.9 | 116.0 | 75.5 | 75.5 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:58:21 | 3:09:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.4 | 130.0 | 115.9 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 473.8 |
| 7:59:21 | 3:10:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.4 | 129.8 | 115.8 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 473.8 |
| 8:00:21 | 3:11:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 129.7 | 115.8 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.8 |
| 8:01:21 | 3:12:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.4 | 129.8 | 115.7 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.8 |
| 8:02:22 | 3:13:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 129.7 | 115.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 473.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000153

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 8:03:22 | 3:14:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 129.6 | 115.5 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 472.3 |
| 8:04:22 | 3:15:19 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 129.6 | 115.5 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 472.3 |
| 8:05:22 | 3:16:20 | 26.1 | 26.1 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.6 | 96.8 | 98.3 | 129.5 | 115.4 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 472.3 |
| 8:06:22 | 3:17:20 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 129.4 | 115.4 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 472.2 |
| 8:07:22 | 3:18:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.3 | 115.2 | 75.4 | 75.3 | 106.9 | 669.6 | 358.7 | 472.2 |
| 8:08:22 | 3:19:20 | 26.1 | 26.0 | 30.2 | 60.2 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.3 | 115.2 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 472.3 |
| 8:09:22 | 3:20:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 98.1 | 129.3 | 115.1 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 472.3 |
| 8:10:22 | 3:21:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.3 | 115.0 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 472.3 |
| 8:11:22 | 3:22:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.3 | 115.0 | 75.4 | 75.3 | 106.8 | 669.6 | 358.7 | 472.3 |
| 8:12:23 | 3:23:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 98.0 | 129.2 | 115.0 | 75.4 | 75.3 | 106.7 | 669.6 | 358.7 | 472.0 |
| 8:13:23 | 3:24:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.9 | 129.2 | 114.8 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 472.2 |
| 8:14:23 | 3:25:20 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 129.2 | 114.8 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 472.3 |
| 8:15:23 | 3:26:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 129.1 | 114.8 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 472.3 |
| 8:16:23 | 3:27:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.3 | 97.8 | 129.0 | 114.6 | 75.3 | 75.3 | 106.6 | 669.6 | 358.7 | 472.3 |
| 8:17:23 | 3:28:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 129.0 | 114.6 | 75.4 | 75.3 | 106.7 | 669.6 | 358.7 | 472.3 |
| 8:18:23 | 3:29:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 133.1 | 114.5 | 75.3 | 75.3 | 106.6 | 669.6 | 358.7 | 472.3 |
| 8:19:23 | 3:30:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 133.5 | 114.4 | 75.3 | 75.3 | 106.6 | 669.6 | 358.7 | 472.3 |
| 8:20:23 | 3:31:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 133.4 | 114.4 | 75.4 | 75.3 | 106.6 | 669.6 | 358.7 | 472.3 |
| 8:21:23 | 3:32:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 97.9 | 96.5 | 101.5 | 116.3 | 133.5 | 114.3 | 75.3 | 75.4 | 106.6 | 669.6 | 358.7 | 470.8 |
| 8:22:24 | 3:33:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 99.5 | 106.8 | 133.5 | 114.2 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 472.3 |
| 8:23:24 | 3:34:21 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.9 | 98.3 | 133.6 | 114.2 | 75.4 | 75.4 | 106.6 | 669.6 | 358.7 | 472.4 |
| 8:24:24 | 3:35:21 | 26.1 | 26.1 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 97.4 | 133.5 | 114.1 | 75.4 | 75.4 | 106.6 | 669.6 | 358.7 | 470.8 |
| 8:25:24 | 3:36:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.8 | 97.5 | 133.4 | 115.6 | 75.4 | 75.4 | 108.3 | 669.6 | 358.7 | 472.3 |
| 8:26:24 | 3:37:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.8 | 97.8 | 133.4 | 117.6 | 75.4 | 75.5 | 107.2 | 669.6 | 358.7 | 470.8 |
| 8:27:24 | 3:38:22 | 26.1 | 26.1 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.8 | 97.9 | 133.4 | 117.6 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:28:24 | 3:39:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.6 | 97.9 | 133.2 | 117.6 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:29:24 | 3:40:22 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 97.9 | 96.5 | 96.6 | 97.9 | 133.1 | 117.5 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:30:24 | 3:41:22 | 26.1 | 26.1 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 98.0 | 133.1 | 117.5 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:31:24 | 3:42:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 97.9 | 96.5 | 96.6 | 97.8 | 133.0 | 117.3 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:32:25 | 3:43:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.5 | 96.6 | 97.9 | 132.9 | 117.3 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:33:25 | 3:44:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.9 | 97.8 | 97.9 | 96.5 | 96.4 | 97.8 | 132.9 | 117.2 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:34:25 | 3:45:22 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 132.9 | 117.2 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:35:25 | 3:46:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.8 | 97.9 | 96.5 | 96.3 | 97.7 | 132.9 | 117.0 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:36:25 | 3:47:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 100.0 | 111.5 | 132.8 | 117.0 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:37:25 | 3:48:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 99.2 | 105.8 | 132.8 | 116.9 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:38:25 | 3:49:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 97.9 | 98.0 | 98.1 | 96.6 | 97.9 | 100.8 | 132.8 | 116.8 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:39:25 | 3:50:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 97.3 | 132.7 | 116.8 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:40:25 | 3:51:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.8 | 97.3 | 132.6 | 116.7 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:41:25 | 3:52:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.6 | 132.6 | 116.6 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:42:26 | 3:53:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.8 | 97.8 | 132.5 | 116.6 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:43:26 | 3:54:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.8 | 132.6 | 116.4 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:44:26 | 3:55:23 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 97.9 | 96.5 | 96.6 | 97.9 | 132.4 | 116.4 | 75.4 | 75.3 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:45:26 | 3:56:24 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 97.9 | 96.5 | 96.6 | 97.9 | 132.3 | 116.3 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:46:26 | 3:57:24 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.8 | 97.9 | 96.5 | 96.6 | 97.9 | 132.2 | 116.2 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.7 |
| 8:47:26 | 3:58:24 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 132.1 | 116.1 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.7 |
| 8:48:26 | 3:59:24 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 101.2 | 115.1 | 132.1 | 116.1 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:49:26 | 4:00:24 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.1 | 96.6 | 105.3 | 124.9 | 132.1 | 116.1 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:50:26 | 4:01:24 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.2 | 96.8 | 99.9 | 105.9 | 132.0 | 116.0 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:51:26 | 4:02:24 | 26.2 | 26.1 | 30.2 | 60.6 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.3 | 98.3 | 96.9 | 97.7 | 98.2 | 132.0 | 115.9 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.7 |
| 8:52:27 | 4:03:24 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 96.8 | 132.0 | 115.8 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:53:27 | 4:04:24 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.5 | 131.8 | 115.7 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 470.8 |
| 8:54:27 | 4:05:24 | 26.2 | 26.1 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.0 | 131.8 | 115.7 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 470.7 |
| 8:55:27 | 4:06:25 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.3 | 131.8 | 115.6 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 470.7 |
| 8:56:27 | 4:07:25 | 26.2 | 26.1 | 30.2 | 60.0 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.3 | 98.4 | 131.7 | 115.5 | 75.4 | 75.4 | 107.0 | 669.6 | 358.7 | 470.8 |
| 8:57:27 | 4:08:25 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.5 | 131.7 | 115.5 | 75.4 | 75.5 | 107.0 | 669.6 | 358.8 | 470.8 |
| 8:58:27 | 4:09:25 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.4 | 131.6 | 115.3 | 75.4 | 75.5 | 107.0 | 669.6 | 358.8 | 470.7 |
| 8:59:27 | 4:10:25 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 131.5 | 115.3 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 470.7 |
| 9:00:27 | 4:11:25 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.3 | 131.5 | 115.2 | 75.4 | 75.4 | 106.9 | 669.6 | 358.7 | 470.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000154

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:01:27 | 4:12:25 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.3 | 131.4 | 115.2 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 470.8 |
| 9:02:28 | 4:13:25 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 96.9 | 98.3 | 131.4 | 115.1 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 470.8 |
| 9:03:28 | 4:14:25 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 131.4 | 115.0 | 75.3 | 75.4 | 106.8 | 669.6 | 358.8 | 470.7 |
| 9:04:28 | 4:15:25 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 131.3 | 115.0 | 75.4 | 75.4 | 106.8 | 669.6 | 358.7 | 470.7 |
| 9:05:28 | 4:16:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 131.2 | 114.9 | 75.3 | 75.3 | 106.7 | 669.6 | 358.7 | 470.8 |
| 9:06:28 | 4:17:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.0 | 96.6 | 96.8 | 98.1 | 131.2 | 114.8 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 469.3 |
| 9:07:28 | 4:18:26 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 131.2 | 114.7 | 75.3 | 75.4 | 106.7 | 669.6 | 358.7 | 470.7 |
| 9:08:28 | 4:19:26 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 98.1 | 131.0 | 114.7 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 470.8 |
| 9:09:28 | 4:20:26 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.0 | 114.6 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 469.3 |
| 9:10:28 | 4:21:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.0 | 114.5 | 75.4 | 75.4 | 106.7 | 669.6 | 358.7 | 469.3 |
| 9:11:28 | 4:22:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 130.9 | 114.5 | 75.4 | 75.4 | 106.6 | 669.6 | 358.7 | 469.2 |
| 9:12:29 | 4:23:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 97.9 | 130.8 | 114.4 | 75.4 | 75.5 | 106.6 | 669.6 | 358.7 | 469.3 |
| 9:13:29 | 4:24:26 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.8 | 114.4 | 75.4 | 75.5 | 106.6 | 669.6 | 358.7 | 469.3 |
| 9:14:29 | 4:25:26 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.7 | 114.3 | 75.4 | 75.5 | 106.5 | 669.6 | 358.7 | 469.2 |
| 9:15:29 | 4:26:27 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 130.7 | 114.2 | 75.4 | 75.5 | 106.5 | 669.6 | 358.7 | 469.3 |
| 9:16:29 | 4:27:27 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 130.7 | 114.1 | 75.4 | 75.6 | 106.5 | 669.6 | 358.8 | 469.3 |
| 9:17:29 | 4:28:27 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.2 | 97.7 | 130.6 | 114.1 | 75.3 | 75.6 | 106.5 | 669.6 | 358.7 | 469.3 |
| 9:18:29 | 4:29:27 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 102.0 | 117.3 | 130.5 | 117.4 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:19:29 | 4:30:27 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.1 | 98.1 | 96.6 | 103.9 | 120.0 | 130.5 | 117.5 | 75.4 | 75.6 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:20:29 | 4:31:27 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.3 | 98.3 | 96.8 | 98.9 | 103.3 | 130.4 | 117.4 | 75.3 | 75.5 | 107.1 | 669.6 | 358.7 | 469.2 |
| 9:21:29 | 4:32:27 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 97.2 | 130.4 | 117.4 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 469.2 |
| 9:22:30 | 4:33:27 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 97.3 | 97.2 | 130.4 | 117.3 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:23:30 | 4:34:27 | 26.2 | 26.0 | 30.2 | 60.4 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.7 | 130.4 | 117.2 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:24:30 | 4:35:27 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.1 | 130.4 | 117.2 | 75.4 | 75.4 | 107.1 | 669.6 | 358.7 | 469.2 |
| 9:25:30 | 4:36:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.1 | 98.2 | 130.4 | 117.1 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 469.2 |
| 9:26:30 | 4:37:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 130.2 | 117.1 | 75.4 | 75.3 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:27:30 | 4:38:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.3 | 130.1 | 116.9 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:28:30 | 4:39:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 130.0 | 116.9 | 75.3 | 75.3 | 107.1 | 669.6 | 358.7 | 469.8 |
| 9:29:30 | 4:40:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 129.9 | 116.7 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:30:30 | 4:41:28 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 129.9 | 116.7 | 75.3 | 75.3 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:31:30 | 4:42:28 | 26.1 | 26.0 | 30.2 | 60.4 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.3 | 129.9 | 116.7 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:32:31 | 4:43:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 129.8 | 116.6 | 75.3 | 75.4 | 107.1 | 669.6 | 358.7 | 469.2 |
| 9:33:31 | 4:44:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 129.8 | 116.5 | 75.3 | 75.4 | 107.1 | 669.6 | 358.8 | 469.2 |
| 9:34:31 | 4:45:28 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.7 | 116.4 | 75.3 | 75.5 | 107.1 | 669.6 | 358.8 | 469.3 |
| 9:35:31 | 4:46:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.6 | 116.4 | 75.4 | 75.5 | 107.1 | 669.6 | 358.7 | 469.3 |
| 9:36:31 | 4:47:29 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.6 | 116.3 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 469.3 |
| 9:37:31 | 4:48:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.5 | 116.2 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 469.2 |
| 9:38:31 | 4:49:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 97.9 | 129.5 | 116.1 | 75.4 | 75.5 | 107.0 | 669.6 | 358.7 | 467.7 |
| 9:39:31 | 4:50:29 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.6 | 96.4 | 97.8 | 129.4 | 116.0 | 75.3 | 75.5 | 107.0 | 669.6 | 358.7 | 467.7 |
| 9:40:31 | 4:51:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.9 | 129.3 | 116.0 | 75.4 | 75.5 | 107.0 | 669.6 | 358.8 | 467.8 |
| 9:41:31 | 4:52:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.6 | 96.4 | 97.8 | 129.4 | 115.9 | 75.4 | 75.6 | 107.0 | 669.6 | 358.7 | 467.8 |
| 9:42:32 | 4:53:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.5 | 96.3 | 97.8 | 129.3 | 115.8 | 75.3 | 75.5 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:43:32 | 4:54:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 129.3 | 115.7 | 75.3 | 75.5 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:44:32 | 4:55:29 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 99.3 | 109.3 | 129.2 | 115.7 | 75.3 | 75.5 | 106.9 | 669.6 | 358.7 | 467.8 |
| 9:45:32 | 4:56:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 104.8 | 124.7 | 129.2 | 115.6 | 75.3 | 75.4 | 107.0 | 669.6 | 358.7 | 467.8 |
| 9:46:32 | 4:57:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.2 | 98.2 | 96.8 | 100.1 | 107.2 | 129.1 | 115.5 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:47:32 | 4:58:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.3 | 98.3 | 96.9 | 97.5 | 98.5 | 129.0 | 115.4 | 75.2 | 75.4 | 107.0 | 669.6 | 358.7 | 467.7 |
| 9:48:32 | 4:59:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 97.1 | 133.1 | 115.4 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:49:32 | 5:00:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 97.6 | 133.5 | 115.3 | 75.2 | 75.4 | 107.0 | 669.6 | 358.7 | 467.7 |
| 9:50:32 | 5:01:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.0 | 133.4 | 115.2 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:51:32 | 5:02:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.2 | 133.3 | 115.2 | 75.2 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:52:33 | 5:03:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 133.3 | 115.1 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.8 |
| 9:53:33 | 5:04:30 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.1 | 96.7 | 97.1 | 98.3 | 133.2 | 115.1 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.8 |
| 9:54:33 | 5:05:30 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.4 | 133.2 | 115.0 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:55:33 | 5:06:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 133.2 | 114.9 | 75.3 | 75.4 | 106.9 | 669.6 | 358.7 | 467.7 |
| 9:56:33 | 5:07:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 96.9 | 98.3 | 133.1 | 114.8 | 75.3 | 75.5 | 106.9 | 669.6 | 358.8 | 467.8 |
| 9:57:33 | 5:08:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 133.0 | 114.7 | 75.3 | 75.5 | 106.8 | 669.6 | 358.7 | 467.8 |
| 9:58:33 | 5:09:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 133.0 | 114.7 | 75.3 | 75.5 | 106.8 | 669.6 | 358.8 | 467.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000155

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 9:59:33 | 5:10:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 133.0 | 114.7 | 75.4 | 75.5 | 106.8 | 669.6 | 358.8 | 467.7 |
| 10:00:33 | 5:11:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 132.9 | 114.5 | 75.3 | 75.5 | 106.7 | 669.6 | 358.7 | 467.8 |
| 10:01:34 | 5:12:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 132.9 | 114.4 | 75.2 | 75.5 | 106.7 | 669.6 | 358.8 | 467.7 |
| 10:02:34 | 5:13:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 132.8 | 114.4 | 75.3 | 75.5 | 106.7 | 669.6 | 358.8 | 467.7 |
| 10:03:34 | 5:14:31 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 98.0 | 132.8 | 114.3 | 75.3 | 75.5 | 106.7 | 669.6 | 358.8 | 467.8 |
| 10:04:34 | 5:15:31 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 97.9 | 132.7 | 114.3 | 75.3 | 75.5 | 106.6 | 669.6 | 358.7 | 466.3 |
| 10:05:34 | 5:16:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.9 | 132.7 | 114.2 | 75.3 | 75.5 | 106.6 | 669.6 | 358.7 | 467.7 |
| 10:06:34 | 5:17:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 97.9 | 96.5 | 96.4 | 97.8 | 132.8 | 114.1 | 75.3 | 75.5 | 106.6 | 669.6 | 358.7 | 467.8 |
| 10:07:34 | 5:18:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 97.9 | 96.5 | 96.4 | 97.8 | 132.7 | 116.8 | 75.3 | 75.5 | 108.4 | 669.6 | 358.7 | 466.3 |
| 10:08:34 | 5:19:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 132.6 | 117.5 | 75.2 | 75.4 | 107.1 | 669.6 | 358.8 | 466.2 |
| 10:09:34 | 5:20:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.7 | 97.9 | 96.5 | 96.3 | 97.7 | 132.6 | 117.5 | 75.2 | 75.4 | 107.0 | 669.6 | 358.8 | 466.3 |
| 10:10:34 | 5:21:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 97.9 | 96.5 | 96.2 | 97.7 | 132.5 | 117.4 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.3 |
| 10:11:35 | 5:22:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 102.2 | 118.0 | 132.4 | 117.4 | 75.2 | 75.4 | 107.0 | 669.6 | 358.7 | 466.1 |
| 10:12:35 | 5:23:32 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.1 | 98.6 | 98.0 | 98.2 | 98.2 | 96.7 | 103.5 | 118.7 | 132.4 | 117.4 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:13:35 | 5:24:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.3 | 98.3 | 96.8 | 98.7 | 102.8 | 132.3 | 117.2 | 75.2 | 75.4 | 107.1 | 669.6 | 358.8 | 466.3 |
| 10:14:35 | 5:25:32 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.2 | 132.2 | 117.2 | 75.2 | 75.5 | 107.2 | 669.6 | 358.7 | 466.3 |
| 10:15:35 | 5:26:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 97.3 | 132.1 | 117.1 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:16:35 | 5:27:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.8 | 132.1 | 117.0 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:17:35 | 5:28:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.3 | 96.8 | 97.3 | 98.1 | 132.1 | 116.9 | 75.2 | 75.4 | 107.2 | 669.6 | 358.7 | 466.3 |
| 10:18:35 | 5:29:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.7 | 97.1 | 98.3 | 132.0 | 116.9 | 75.2 | 75.4 | 107.1 | 669.6 | 358.8 | 466.3 |
| 10:19:35 | 5:30:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 131.9 | 116.7 | 75.1 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:20:35 | 5:31:33 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.3 | 132.0 | 116.7 | 75.2 | 75.4 | 107.1 | 669.6 | 358.8 | 466.2 |
| 10:21:36 | 5:32:33 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 96.9 | 98.3 | 131.8 | 116.6 | 75.1 | 75.4 | 107.1 | 669.6 | 358.7 | 466.3 |
| | CYCLE PAUSED (gbonilla) | | | | 03/10/2015 18:04:26 | | | | | | | | | | | | | | | | | | |
| 10:22:25 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.8 | 116.6 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| | EMISSION SYSTEM BYPASS ALARM | | | | | 03/10/2015 18:04:26 | | | | | | | | | | | | | | | | | |
| 10:22:25 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.8 | 116.6 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| | EMISSION SYSTEM ALARM | | | | 03/10/2015 18:04:26 | | | | | | | | | | | | | | | | | | |
| 10:22:25 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.8 | 116.6 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:22:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 131.8 | 116.5 | 75.1 | 75.4 | 107.1 | 669.6 | 358.7 | 466.3 |
| 10:23:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.7 | 116.5 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 466.3 |
| 10:24:36 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.2 | 131.7 | 116.4 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 464.8 |
| 10:25:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 131.7 | 116.3 | 75.1 | 75.4 | 107.1 | 669.6 | 358.7 | 466.2 |
| 10:26:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 131.6 | 116.3 | 75.2 | 75.4 | 107.1 | 669.6 | 358.7 | 464.7 |
| | ALARM SILENCED (egnon) | | | | 03/10/2015 18:09:08 | | | | | | | | | | | | | | | | | | |
| 10:27:08 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.8 | 98.1 | 131.6 | 116.2 | 75.1 | 75.4 | 107.0 | 669.6 | 358.7 | 464.7 |
| 10:27:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.6 | 116.1 | 75.1 | 75.4 | 107.1 | 669.6 | 358.7 | 464.8 |
| | CYCLE RESUMED (egnon) | | | | 03/10/2015 18:09:49 | | | | | | | | | | | | | | | | | | |
| 10:27:49 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 131.6 | 116.2 | 75.2 | 75.4 | 107.0 | 669.6 | 358.8 | 464.8 |
| | CYCLE PAUSED (egnon) | | | | 03/10/2015 18:09:49 | | | | | | | | | | | | | | | | | | |
| 10:27:49 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 131.6 | 116.2 | 75.2 | 75.4 | 107.0 | 669.6 | 358.7 | 464.8 |
| 10:28:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 98.0 | 131.6 | 116.1 | 75.2 | 75.4 | 107.0 | 669.6 | 358.7 | 464.7 |
| 10:29:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.6 | 98.0 | 131.5 | 116.1 | 75.2 | 75.5 | 107.1 | 669.6 | 358.7 | 464.7 |
| 10:30:36 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 97.9 | 131.4 | 115.9 | 75.1 | 75.4 | 107.0 | 669.6 | 358.7 | 464.7 |
| 10:31:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 97.8 | 131.3 | 115.8 | 75.1 | 75.4 | 107.0 | 669.6 | 358.8 | 464.7 |
| 10:32:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.6 | 97.8 | 131.2 | 115.8 | 75.2 | 75.4 | 106.9 | 669.6 | 358.8 | 464.8 |
| 10:33:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.4 | 97.8 | 131.3 | 115.8 | 75.2 | 75.5 | 107.0 | 669.6 | 358.7 | 464.7 |
| 10:34:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.9 | 98.0 | 96.5 | 96.3 | 97.8 | 131.2 | 115.7 | 75.1 | 75.5 | 107.0 | 669.6 | 358.8 | 464.7 |
| 10:35:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.8 | 131.1 | 115.6 | 75.1 | 75.5 | 106.9 | 669.6 | 358.7 | 464.7 |
| 10:36:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.7 | 97.9 | 96.4 | 96.4 | 99.1 | 131.0 | 115.5 | 75.1 | 75.5 | 106.9 | 669.6 | 358.7 | 464.7 |
| 10:37:37 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.4 | 97.9 | 98.0 | 98.1 | 96.6 | 103.3 | 121.0 | 131.0 | 115.4 | 75.1 | 75.6 | 106.9 | 669.6 | 358.7 | 464.7 |
| 10:38:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.7 | 101.4 | 111.8 | 131.0 | 115.3 | 75.1 | 75.6 | 107.0 | 669.6 | 358.8 | 464.7 |
| 10:39:37 | 5:33:23 | 26.2 | 26.0 | 30.2 | 60.0 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.3 | 98.3 | 96.8 | 97.9 | 100.2 | 131.0 | 115.3 | 75.1 | 75.6 | 107.0 | 669.6 | 358.8 | 464.8 |
| 10:40:37 | 5:33:23 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.1 | 130.9 | 115.2 | 75.1 | 75.5 | 106.9 | 669.6 | 358.7 | 464.8 |
| 10:41:38 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 97.1 | 97.4 | 130.9 | 115.2 | 75.2 | 75.6 | 106.9 | 669.6 | 358.8 | 464.7 |
| 10:42:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.2 | 98.3 | 96.8 | 97.1 | 97.8 | 130.9 | 115.1 | 75.1 | 75.6 | 106.9 | 669.6 | 358.7 | 464.7 |
| | EMISSION SYSTEM ALARM RESET | | | | | 03/10/2015 18:25:24 | | | | | | | | | | | | | | | | | |
| 10:43:24 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.0 | 130.8 | 115.0 | 75.0 | 75.6 | 106.9 | 669.6 | 358.7 | 464.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000156

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 10:43:38 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.1 | 130.8 | 115.0 | 75.1 | 75.6 | 106.9 | 669.6 | 358.8 | 464.8 |
| 10:44:38 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.2 | 130.7 | 115.0 | 75.1 | 75.6 | 106.9 | 669.6 | 358.7 | 464.8 |
| 10:45:38 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 97.1 | 98.2 | 130.6 | 114.8 | 75.1 | 75.5 | 106.8 | 669.6 | 358.7 | 464.7 |
| 10:46:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 96.9 | 98.2 | 130.5 | 114.8 | 75.1 | 75.5 | 106.8 | 669.6 | 358.7 | 464.7 |
| 10:47:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 130.5 | 114.7 | 75.1 | 75.5 | 106.8 | 669.6 | 358.7 | 464.8 |
| CYCLE RESUMED (Rblake) 03/10/2015 18:30:23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:48:24 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 130.4 | 114.7 | 75.1 | 75.5 | 106.8 | 669.6 | 358.8 | 464.7 |
| CYCLE PAUSED (Rblake) 03/10/2015 18:30:23 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:48:24 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 130.4 | 114.7 | 75.1 | 75.5 | 106.8 | 669.6 | 358.8 | 464.7 |
| 10:48:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 130.4 | 114.7 | 75.0 | 75.5 | 106.8 | 669.6 | 358.8 | 464.8 |
| 10:49:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 130.4 | 114.7 | 75.2 | 75.5 | 106.7 | 669.6 | 358.7 | 464.7 |
| 10:50:38 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 130.4 | 114.5 | 75.0 | 75.4 | 106.7 | 669.6 | 358.7 | 464.7 |
| 10:51:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 130.2 | 114.5 | 75.1 | 75.4 | 106.6 | 669.6 | 358.7 | 464.8 |
| EMISSION SYSTEM OFF ALARM 03/10/2015 18:34:25 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:52:25 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 98.0 | 98.2 | 96.7 | 96.8 | 98.0 | 130.2 | 114.4 | 75.1 | 75.4 | 106.6 | 669.6 | 358.8 | 464.7 |
| 10:52:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 130.2 | 114.4 | 75.0 | 75.4 | 106.6 | 669.6 | 358.7 | 464.8 |
| 10:53:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 130.2 | 114.4 | 75.0 | 75.4 | 106.6 | 669.6 | 358.7 | 464.7 |
| 10:54:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.0 | 96.5 | 96.6 | 98.0 | 130.1 | 114.3 | 75.0 | 75.4 | 106.6 | 669.6 | 358.8 | 464.7 |
| ALARM SILENCED (Rblake) 03/10/2015 18:36:50 | | | | | | | | | | | | | | | | | | | | | | | | |
| 10:54:51 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 130.1 | 114.2 | 75.0 | 75.4 | 106.6 | 669.6 | 358.7 | 464.7 |
| 10:55:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.0 | 114.2 | 75.0 | 75.4 | 106.6 | 669.6 | 358.7 | 463.3 |
| 10:56:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.0 | 114.2 | 75.0 | 75.4 | 106.6 | 669.6 | 358.7 | 464.8 |
| 10:57:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 97.9 | 130.0 | 114.1 | 75.1 | 75.4 | 106.5 | 669.6 | 358.8 | 463.2 |
| 10:58:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 129.9 | 117.0 | 75.1 | 75.4 | 108.1 | 669.6 | 358.8 | 463.2 |
| 10:59:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 129.9 | 117.6 | 75.0 | 75.5 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:00:39 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 129.8 | 117.6 | 75.0 | 75.4 | 107.0 | 669.6 | 358.7 | 463.2 |
| 11:01:40 | 5:33:23 | 26.1 | 26.0 | 30.2 | 60.0 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.4 | 96.3 | 97.7 | 129.8 | 117.6 | 75.0 | 75.5 | 107.1 | 669.6 | 358.7 | 463.3 |
| 11:02:40 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.5 | 96.2 | 97.7 | 129.7 | 117.5 | 75.1 | 75.5 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:03:40 | 5:33:23 | 26.1 | 26.0 | 30.2 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 97.9 | 96.4 | 99.9 | 111.2 | 129.6 | 117.4 | 75.1 | 75.6 | 107.1 | 669.6 | 358.8 | 463.2 |
| 11:04:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 105.0 | 125.8 | 129.6 | 117.4 | 75.1 | 75.6 | 107.1 | 669.6 | 358.7 | 463.3 |
| 11:05:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.3 | 98.3 | 96.8 | 100.6 | 108.7 | 129.5 | 117.3 | 75.1 | 75.5 | 107.2 | 669.6 | 358.7 | 463.3 |
| 11:06:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.8 | 97.8 | 99.1 | 129.5 | 117.2 | 75.1 | 75.5 | 107.2 | 669.6 | 358.7 | 463.1 |
| 11:07:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 60.0 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.2 | 98.3 | 96.9 | 97.1 | 97.0 | 129.5 | 117.1 | 75.1 | 75.5 | 107.2 | 669.6 | 358.7 | 463.0 |
| 11:08:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.4 | 98.1 | 98.7 | 98.3 | 98.2 | 98.3 | 96.8 | 97.3 | 97.5 | 129.4 | 117.1 | 75.1 | 75.6 | 107.2 | 669.6 | 358.7 | 463.3 |
| 11:09:40 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.9 | 129.3 | 117.0 | 75.1 | 75.5 | 107.2 | 669.6 | 358.7 | 463.2 |
| EMISSION SYSTEM OFF ALARM RESET 03/10/2015 18:51:40 | | | | | | | | | | | | | | | | | | | | | | | | |
| 11:09:41 | 5:33:23 | 26.2 | 26.1 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.9 | 129.3 | 117.0 | 75.1 | 75.5 | 107.2 | 669.6 | 358.8 | 463.3 |
| 11:10:40 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.1 | 129.3 | 116.9 | 75.0 | 75.5 | 107.2 | 669.6 | 358.7 | 463.2 |
| 11:11:41 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.3 | 98.3 | 129.2 | 116.8 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:12:41 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 129.1 | 116.8 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.3 |
| 11:13:41 | 5:33:23 | 26.2 | 26.0 | 30.2 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 129.1 | 116.7 | 75.0 | 75.4 | 107.1 | 669.6 | 358.8 | 463.2 |
| 11:14:41 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 130.6 | 116.6 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:15:41 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.9 | 98.3 | 133.0 | 116.5 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:16:41 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.2 | 133.3 | 116.4 | 74.9 | 75.3 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:17:41 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 133.2 | 116.4 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:18:41 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.2 | 133.0 | 116.4 | 75.0 | 75.3 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:19:41 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.6 | 96.8 | 98.2 | 133.0 | 116.3 | 75.0 | 75.3 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:20:41 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 133.0 | 116.2 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:21:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 133.0 | 116.1 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:22:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.1 | 132.8 | 116.1 | 75.0 | 75.4 | 107.0 | 669.6 | 358.7 | 463.2 |
| 11:23:42 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.6 | 98.0 | 132.9 | 116.0 | 75.0 | 75.5 | 107.1 | 669.6 | 358.7 | 463.2 |
| 11:24:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 132.7 | 115.9 | 75.1 | 75.5 | 107.0 | 669.6 | 358.7 | 463.9 |
| 11:25:42 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 132.7 | 115.8 | 75.0 | 75.5 | 107.0 | 669.6 | 358.7 | 463.2 |
| 11:26:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.4 | 97.8 | 132.8 | 115.7 | 75.0 | 75.5 | 107.[illegible] | [illegible].6 | 358.7 | 463.2 |
| 11:27:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.8 | 132.7 | 115.6 | 75.0 | 75.5 | 106.9 | 669.6 | 358.7 | 463.3 |
| 11:28:42 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 132.6 | 115.6 | 75.1 | 75.6 | 106.9 | 669.6 | 358.7 | 461.7 |
| 11:29:42 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.7 | 98.0 | 96.5 | 96.8 | 101.2 | 132.6 | 115.5 | 75.0 | 75.5 | 106.9 | 669.6 | 358.8 | 461.7 |
| 11:30:42 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 103.6 | 122.1 | 132.5 | 115.4 | 75.1 | 75.5 | 106.9 | 669.6 | 358.7 | 463.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000157

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 11:31:43 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.3 | 98.2 | 96.8 | 102.2 | 114.0 | 132.5 | 115.4 | 75.0 | 75.5 | 107.0 | 669.6 | 358.8 | 461.8 |
| 11:32:43 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.9 | 100.0 | 98.4 | 98.3 | 98.7 | 98.3 | 98.4 | 98.4 | 96.9 | 98.4 | 101.2 | 132.5 | 115.3 | 75.0 | 75.6 | 107.0 | 669.6 | 358.8 | 461.7 |
| 11:33:43 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.3 | 98.3 | 96.9 | 97.1 | 97.0 | 132.4 | 115.3 | 75.1 | 75.5 | 107.0 | 669.6 | 358.8 | 461.7 |
| 11:34:43 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.1 | 98.7 | 98.3 | 98.2 | 98.3 | 96.9 | 97.3 | 97.3 | 132.4 | 115.2 | 75.0 | 75.5 | 106.9 | 669.6 | 358.8 | 461.7 |
| 11:35:43 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 97.9 | 132.3 | 115.1 | 75.0 | 75.4 | 106.9 | 669.6 | 358.7 | 461.8 |
| 11:36:43 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 98.2 | 132.2 | 115.0 | 75.0 | 75.4 | 106.9 | 669.6 | 358.7 | 461.8 |
| 11:37:43 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.3 | 96.8 | 97.3 | 98.3 | 132.1 | 114.9 | 75.0 | 75.4 | 106.9 | 669.6 | 358.7 | 461.7 |
| 11:38:43 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.5 | 132.1 | 114.9 | 75.0 | 75.4 | 106.8 | 669.6 | 358.7 | 461.7 |
| 11:39:43 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.4 | 132.1 | 114.8 | 75.0 | 75.5 | 106.9 | 669.6 | 358.7 | 461.7 |
| 11:40:43 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.4 | 132.0 | 114.8 | 75.0 | 75.5 | 106.8 | 669.6 | 358.7 | 461.7 |
| 11:41:44 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 131.9 | 114.7 | 75.0 | 75.5 | 106.8 | 669.6 | 358.8 | 461.7 |
| 11:42:44 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.9 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 96.9 | 98.3 | 131.9 | 114.6 | 75.0 | 75.5 | 106.8 | 669.6 | 358.7 | 461.8 |
| 11:43:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.9 | 98.3 | 131.8 | 114.5 | 75.0 | 75.6 | 106.8 | 669.6 | 358.7 | 461.8 |
| 11:44:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.7 | 96.8 | 98.2 | 131.7 | 114.5 | 75.0 | 75.5 | 106.7 | 669.6 | 358.8 | 461.7 |
| 11:45:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 131.7 | 114.4 | 75.0 | 75.6 | 106.7 | 669.6 | 358.7 | 461.7 |
| 11:46:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 131.7 | 114.3 | 75.0 | 75.5 | 106.7 | 669.6 | 358.7 | 461.7 |
| 11:47:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.7 | 96.6 | 98.1 | 131.7 | 114.2 | 75.0 | 75.5 | 106.6 | 669.6 | 358.8 | 461.8 |
| 11:48:44 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 131.5 | 114.2 | 75.1 | 75.5 | 106.6 | 669.6 | 358.7 | 461.7 |
| 11:49:44 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.6 | 114.1 | 75.0 | 75.5 | 106.6 | 669.6 | 358.7 | 461.7 |
| 11:50:44 | 5:33:23 | 26.1 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.5 | 114.1 | 75.0 | 75.5 | 106.6 | 669.6 | 358.8 | 461.8 |
| 11:51:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.4 | 97.9 | 131.4 | 116.8 | 75.0 | 75.4 | 108.3 | 669.6 | 358.8 | 461.8 |
| 11:52:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.4 | 97.8 | 131.3 | 117.5 | 75.0 | 75.5 | 107.1 | 669.6 | 358.7 | 460.3 |
| 11:53:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.3 | 97.8 | 131.2 | 117.5 | 74.9 | 75.4 | 107.0 | 669.6 | 358.8 | 460.2 |
| 11:54:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.9 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.9 | 98.1 | 96.6 | 96.3 | 97.7 | 131.2 | 117.5 | 74.9 | 75.4 | 107.1 | 669.6 | 358.8 | 460.2 |
| 11:55:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 131.0 | 117.4 | 74.9 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 11:56:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.7 | 97.9 | 96.5 | 96.3 | 97.7 | 131.0 | 117.4 | 74.9 | 75.4 | 107.0 | 669.6 | 358.8 | 460.2 |
| 11:57:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 97.9 | 96.5 | 96.2 | 97.7 | 131.0 | 117.3 | 74.9 | 75.3 | 107.0 | 669.6 | 358.8 | 460.2 |
| 11:58:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 97.9 | 96.5 | 96.2 | 97.7 | 131.0 | 117.2 | 75.0 | 75.4 | 107.0 | 669.6 | 358.7 | 460.2 |
| 11:59:45 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.6 | 98.3 | 97.8 | 97.8 | 97.9 | 96.4 | 96.3 | 99.6 | 131.0 | 117.1 | 74.9 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:00:45 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 103.3 | 121.3 | 130.9 | 117.1 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 460.3 |
| 12:01:46 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.3 | 98.2 | 96.7 | 104.5 | 121.2 | 130.8 | 117.0 | 75.0 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:02:46 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.4 | 98.3 | 98.7 | 98.2 | 98.4 | 98.3 | 96.9 | 99.4 | 104.1 | 130.8 | 116.9 | 75.0 | 75.5 | 107.2 | 669.6 | 358.7 | 460.1 |
| 12:03:46 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.9 | 100.0 | 98.5 | 98.3 | 98.7 | 98.4 | 98.4 | 98.4 | 97.0 | 97.5 | 97.7 | 130.7 | 116.9 | 75.0 | 75.4 | 107.2 | 669.6 | 358.7 | 460.2 |
| 12:04:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.3 | 98.3 | 98.3 | 96.9 | 97.1 | 96.8 | 130.8 | 116.7 | 74.9 | 75.5 | 107.3 | 669.6 | 358.7 | 460.2 |
| 12:05:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.3 | 96.9 | 97.3 | 97.5 | 130.6 | 116.7 | 75.0 | 75.5 | 107.2 | 669.6 | 358.7 | 460.2 |
| 12:06:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 98.0 | 130.6 | 116.6 | 75.0 | 75.5 | 107.2 | 669.6 | 358.8 | 460.2 |
| 12:07:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 97.3 | 98.2 | 130.6 | 116.5 | 74.9 | 75.5 | 107.2 | 669.6 | 358.7 | 460.2 |
| 12:08:46 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.9 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.4 | 130.5 | 116.5 | 75.0 | 75.5 | 107.2 | 669.6 | 358.7 | 460.2 |
| 12:09:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.5 | 130.4 | 116.4 | 75.0 | 75.5 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:10:46 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.5 | 130.3 | 116.3 | 75.0 | 75.5 | 107.2 | 669.6 | 358.8 | 460.2 |
| 12:11:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.4 | 130.3 | 116.2 | 75.0 | 75.6 | 107.2 | 669.6 | 358.7 | 460.2 |
| 12:12:47 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 130.4 | 116.1 | 75.0 | 75.6 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:13:47 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 97.1 | 98.3 | 130.2 | 116.1 | 75.0 | 75.6 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:14:47 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.8 | 96.9 | 98.3 | 130.2 | 116.0 | 75.0 | 75.5 | 107.1 | 669.6 | 358.8 | 460.1 |
| 12:15:47 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.2 | 130.1 | 115.9 | 75.0 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:16:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 130.0 | 115.8 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.3 |
| 12:17:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 130.0 | 115.8 | 74.9 | 75.6 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:18:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.1 | 129.8 | 115.7 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:19:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.8 | 115.7 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:20:47 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.7 | 115.5 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:21:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.7 | 96.6 | 97.9 | 129.7 | 115.5 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:22:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.6 | 97.9 | 129.7 | 115.4 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 460.2 |
| 12:23:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.4 | 97.8 | 129.6 | 115.3 | 74.8 | 75.5 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:24:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.4 | 97.8 | 129.6 | 115.2 | 74.8 | 75.4 | 106.9 | 669.6 | 358.8 | 460.3 |
| 12:25:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.4 | 97.8 | 129.5 | 115.2 | 74.9 | 75.4 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:26:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 129.5 | 115.1 | 74.8 | 75.5 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:27:48 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.3 | 97.7 | 129.6 | 115.1 | 74.9 | 75.5 | 106.9 | 669.6 | 358.7 | 460.3 |
| 12:28:48 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 129.5 | 115.0 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 460.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000158

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 12:29:48 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 97.9 | 96.5 | 96.2 | 97.6 | 129.4 | 114.9 | 74.8 | 75.4 | 106.8 | 669.6 | 358.8 | 460.2 |
| 12:30:48 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 101.6 | 116.6 | 129.3 | 114.8 | 74.8 | 75.5 | 106.8 | 669.6 | 358.8 | 460.2 |
| 12:31:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.0 | 98.2 | 98.2 | 96.7 | 104.8 | 123.2 | 129.3 | 114.8 | 74.9 | 75.5 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:32:49 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.4 | 98.3 | 96.8 | 99.5 | 104.8 | 129.3 | 114.7 | 74.9 | 75.5 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:33:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.4 | 98.4 | 96.9 | 97.4 | 97.8 | 129.2 | 114.6 | 74.8 | 75.5 | 106.9 | 669.6 | 358.7 | 460.2 |
| 12:34:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.3 | 98.3 | 96.9 | 97.1 | 97.0 | 129.1 | 114.5 | 74.8 | 75.6 | 106.9 | 669.6 | 358.7 | 460.3 |
| 12:35:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.1 | 98.2 | 96.8 | 97.3 | 97.7 | 129.1 | 114.5 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 460.2 |
| 12:36:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.9 | 97.3 | 98.0 | 129.1 | 114.4 | 74.9 | 75.5 | 106.8 | 669.6 | 358.8 | 459.6 |
| 12:37:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.2 | 129.0 | 114.3 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 460.2 |
| 12:38:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 133.0 | 114.3 | 74.9 | 75.5 | 106.7 | 669.6 | 358.7 | 460.2 |
| 12:39:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 133.3 | 114.2 | 74.8 | 75.5 | 106.7 | 669.6 | 358.7 | 460.3 |
| 12:40:49 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 97.1 | 98.3 | 133.3 | 114.2 | 74.9 | 75.5 | 106.7 | 669.6 | 358.7 | 460.2 |
| 12:41:50 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 96.9 | 98.3 | 133.3 | 114.5 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:42:50 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 133.3 | 117.5 | 74.9 | 75.5 | 107.2 | 669.6 | 358.7 | 460.3 |
| 12:43:50 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 133.3 | 117.6 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:44:50 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 133.3 | 117.6 | 74.9 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:45:50 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 133.1 | 117.5 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:46:50 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 133.0 | 117.4 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:47:50 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 133.1 | 117.3 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:48:50 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 133.0 | 117.3 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:49:50 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 133.0 | 117.2 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:50:50 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 97.9 | 132.9 | 117.2 | 74.9 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:51:51 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.0 | 96.6 | 96.4 | 97.8 | 132.8 | 117.0 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:52:51 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.4 | 97.8 | 132.8 | 116.9 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 460.3 |
| 12:53:51 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.4 | 97.8 | 132.9 | 116.9 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:54:51 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 132.8 | 116.8 | 74.9 | 75.4 | 107.1 | 669.6 | 358.8 | 460.2 |
| 12:55:51 | 5:33:23 | 26.1 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 132.6 | 116.7 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 460.3 |
| 12:56:51 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.2 | 97.8 | 97.8 | 97.9 | 96.4 | 96.2 | 97.7 | 132.5 | 116.6 | 74.8 | 75.4 | 107.1 | 669.6 | 358.8 | 458.8 |
| 12:57:51 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.3 | 97.9 | 97.9 | 98.0 | 96.5 | 102.6 | 119.3 | 132.5 | 116.5 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 460.2 |
| 12:58:51 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.7 | 103.0 | 117.1 | 132.5 | 116.5 | 74.8 | 75.5 | 107.2 | 669.6 | 358.7 | 458.7 |
| 12:59:51 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.2 | 98.6 | 98.2 | 98.3 | 98.3 | 96.8 | 98.7 | 102.3 | 132.4 | 116.4 | 74.9 | 75.5 | 107.2 | 669.6 | 358.8 | 458.8 |
| 13:00:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.9 | 97.1 | 97.0 | 132.4 | 116.3 | 74.9 | 75.6 | 107.2 | 669.6 | 358.7 | 458.7 |
| 13:01:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.1 | 97.2 | 132.3 | 116.3 | 74.9 | 75.6 | 107.2 | 669.6 | 358.7 | 458.6 |
| 13:02:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 97.7 | 132.3 | 116.2 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 458.8 |
| 13:03:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.1 | 132.1 | 116.1 | 74.9 | 75.5 | 107.1 | 669.6 | 358.8 | 458.8 |
| 13:04:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.1 | 98.2 | 132.1 | 116.0 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 458.7 |
| 13:05:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.2 | 132.1 | 116.0 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 458.7 |
| 13:06:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 132.0 | 115.9 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 458.7 |
| 13:07:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 96.9 | 98.3 | 132.0 | 115.8 | 74.9 | 75.6 | 107.1 | 669.6 | 358.7 | 458.7 |
| 13:08:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.8 | 96.8 | 98.2 | 131.9 | 115.7 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 458.7 |
| 13:09:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 131.9 | 115.7 | 74.9 | 75.6 | 107.0 | 669.6 | 358.7 | 458.7 |
| 13:10:52 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.0 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 132.0 | 115.6 | 74.9 | 75.6 | 107.1 | 669.6 | 358.7 | 458.7 |
| 13:11:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 131.9 | 115.5 | 74.8 | 75.6 | 107.0 | 669.6 | 358.7 | 458.7 |
| 13:12:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 131.7 | 115.5 | 74.9 | 75.6 | 107.0 | 669.6 | 358.7 | 458.7 |
| 13:13:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.7 | 115.4 | 74.9 | 75.6 | 107.0 | 669.6 | 358.7 | 458.7 |
| 13:14:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 131.6 | 115.3 | 74.9 | 75.6 | 106.9 | 669.6 | 358.7 | 458.7 |
| 13:15:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.6 | 96.6 | 97.9 | 131.6 | 115.2 | 74.9 | 75.5 | 106.9 | 669.6 | 358.8 | 458.7 |
| 13:16:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.6 | 97.9 | 131.6 | 115.1 | 74.9 | 75.6 | 106.9 | 669.6 | 358.8 | 458.7 |
| 13:17:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.6 | 96.6 | 97.9 | 131.6 | 115.1 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 458.7 |
| 13:18:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.6 | 96.4 | 97.8 | 131.5 | 115.0 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 458.7 |
| 13:19:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 131.4 | 115.0 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 458.8 |
| 13:20:53 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 131.3 | 114.9 | 74.8 | 75.5 | 106.8 | 669.6 | 358.8 | 458.7 |
| 13:21:54 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 131.2 | 114.8 | 74.9 | 75.4 | 106.7 | 669.6 | 358.7 | 458.6 |
| 13:22:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.3 | 97.7 | 131.2 | 114.8 | 74.8 | 75.4 | 106.7 | 669.6 | 358.8 | 458.7 |
| 13:23:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.4 | 96.2 | 97.6 | 131.2 | 114.7 | 74.8 | 75.4 | 106.7 | 669.6 | 358.8 | 458.7 |
| 13:24:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 97.9 | 97.6 | 98.2 | 97.8 | 97.7 | 97.9 | 96.4 | 99.7 | 110.4 | 131.1 | 114.6 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 458.6 |
| 13:25:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 98.6 | 104.3 | 131.1 | 114.5 | 74.8 | 75.4 | 106.7 | 669.6 | 358.8 | 458.7 |
| 13:26:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 97.7 | 100.7 | 131.0 | 114.5 | 74.8 | 75.4 | 106.6 | 669.6 | 358.8 | 458.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000159

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 13:27:54 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 98.0 | 98.1 | 96.6 | 97.3 | 99.4 | 131.0 | 114.4 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 458.7 |
| 13:28:54 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 97.1 | 98.9 | 130.9 | 114.4 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 458.7 |
| 13:29:54 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.5 | 97.1 | 98.7 | 130.8 | 114.3 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 458.7 |
| 13:30:54 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.9 | 98.5 | 130.8 | 114.2 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 458.8 |
| 13:31:55 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.9 | 98.4 | 130.8 | 114.1 | 74.8 | 75.4 | 106.5 | 669.6 | 358.8 | 458.7 |
| 13:32:55 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.3 | 130.6 | 114.1 | 74.8 | 75.4 | 106.5 | 669.6 | 358.7 | 458.6 |
| 13:33:55 | 5:33:23 | 26.2 | 26.0 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.8 | 98.2 | 130.7 | 117.1 | 74.8 | 75.5 | 107.7 | 669.6 | 358.7 | 458.8 |
| 13:34:55 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 96.6 | 98.1 | 130.6 | 117.5 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:35:55 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 96.6 | 98.1 | 130.6 | 117.5 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.1 |
| | EMISSION SYSTEM BYPASS ALARM RESET | | | | | | 03/10/2015 21:18:02 | | | | | | | | | | | | | | | | |
| 13:36:02 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.5 | 96.6 | 98.1 | 130.6 | 117.6 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:36:55 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.6 | 98.1 | 130.5 | 117.5 | 74.9 | 75.6 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:37:55 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 98.0 | 130.5 | 117.4 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.3 |
| | CYCLE RESUMED (kbrowning) | | | | | | 03/10/2015 21:20:38 | | | | | | | | | | | | | | | | |
| 13:38:38 | 5:33:23 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 130.4 | 117.3 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.2 |
| 13:38:55 | 5:33:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.8 | 97.8 | 98.0 | 96.5 | 96.4 | 97.9 | 130.4 | 117.3 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.2 |
| 13:39:55 | 5:34:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.4 | 96.4 | 97.9 | 130.3 | 117.3 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.2 |
| 13:40:55 | 5:35:40 | 26.2 | 26.1 | 30.1 | 59.3 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.7 | 97.9 | 96.4 | 96.4 | 97.8 | 130.3 | 117.2 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.1 |
| 13:41:56 | 5:36:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 101.6 | 116.2 | 130.3 | 117.1 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.1 |
| 13:42:56 | 5:37:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.0 | 98.2 | 98.2 | 96.7 | 104.5 | 122.2 | 130.2 | 117.0 | 74.9 | 75.7 | 107.2 | 669.6 | 358.8 | 457.3 |
| 13:43:56 | 5:38:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.8 | 99.3 | 104.3 | 130.1 | 117.0 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 457.2 |
| 13:44:56 | 5:39:40 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.3 | 96.8 | 97.3 | 97.5 | 130.1 | 116.9 | 74.9 | 75.6 | 107.2 | 669.6 | 358.7 | 457.1 |
| 13:45:56 | 5:40:41 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.1 | 130.1 | 116.8 | 74.9 | 75.6 | 107.2 | 669.6 | 358.8 | 457.2 |
| 13:46:56 | 5:41:41 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 97.7 | 130.1 | 116.7 | 74.9 | 75.6 | 107.2 | 669.6 | 358.8 | 457.2 |
| 13:47:56 | 5:42:41 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.1 | 130.0 | 116.6 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:48:56 | 5:43:41 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.3 | 129.9 | 116.6 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:49:56 | 5:44:41 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 129.9 | 116.4 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 457.2 |
| | CYCLE PAUSED (kbrowning) | | | | | | 03/10/2015 21:32:16 | | | | | | | | | | | | | | | | |
| 13:50:16 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.7 | 97.1 | 98.3 | 129.8 | 116.5 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| | EMISSION SYSTEM BYPASS ALARM | | | | | | 03/10/2015 21:32:16 | | | | | | | | | | | | | | | | |
| 13:50:16 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.7 | 97.1 | 98.3 | 129.8 | 116.4 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| | EMISSION SYSTEM ALARM | | | | | | 03/10/2015 21:32:16 | | | | | | | | | | | | | | | | |
| 13:50:16 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.7 | 97.1 | 98.3 | 129.8 | 116.4 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:50:56 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.7 | 97.1 | 98.4 | 129.7 | 116.4 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| | EMISSION SYSTEM ALARM RESET | | | | | | 03/10/2015 21:33:08 | | | | | | | | | | | | | | | | |
| 13:51:08 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.3 | 129.8 | 116.3 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| | ALARM SILENCED (kbrowning) | | | | | | 03/10/2015 21:33:28 | | | | | | | | | | | | | | | | |
| 13:51:27 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 129.7 | 116.4 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.1 |
| 13:51:57 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.7 | 97.1 | 98.4 | 129.7 | 116.4 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:52:57 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 97.9 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.9 | 98.3 | 129.7 | 116.3 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:53:57 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 129.5 | 116.2 | 74.8 | 75.4 | 107.0 | 669.6 | 358.7 | 457.2 |
| | EMISSION SYSTEM BYPASS ALARM RESET | | | | | | 03/10/2015 21:36:47 | | | | | | | | | | | | | | | | |
| 13:54:46 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.6 | 96.9 | 98.3 | 129.6 | 116.2 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:54:57 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.9 | 98.3 | 129.6 | 116.1 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.3 |
| 13:55:57 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.2 | 129.5 | 116.0 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| | CYCLE RESUMED (kbrowning) | | | | | | 03/10/2015 21:38:01 | | | | | | | | | | | | | | | | |
| 13:56:00 | 5:45:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.2 | 129.5 | 116.0 | 74.8 | 75.5 | 107.0 | 669.6 | 358.7 | 457.2 |
| 13:56:57 | 5:45:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 129.5 | 116.0 | 74.9 | 75.5 | 107.1 | 669.6 | 358.7 | 457.2 |
| 13:57:57 | 5:46:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 129.4 | 115.9 | 74.8 | 75.5 | 107.0 | 669.6 | 358.7 | 457.1 |
| 13:58:57 | 5:47:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 129.3 | 115.8 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 457.2 |
| 13:59:57 | 5:48:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.3 | 115.7 | 74.9 | 75.5 | 107.0 | 669.6 | 358.7 | 457.3 |
| 14:00:57 | 5:49:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.3 | 115.7 | 74.9 | 75.6 | 107.0 | 669.6 | 358.7 | 457.2 |
| 14:01:58 | 5:50:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 129.2 | 115.6 | 74.9 | 75.6 | 107.0 | 669.6 | 358.7 | 455.7 |
| 14:02:58 | 5:51:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.8 | 98.0 | 96.5 | 96.6 | 97.9 | 129.1 | 115.5 | 74.9 | 75.6 | 106.[illegible] | 669.6 | 358.7 | 457.2 |
| 14:03:58 | 5:52:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.4 | 97.8 | 129.0 | 115.5 | 74.9 | 75.6 | 106.[illegible] | 669.6 | 358.7 | 455.7 |
| 14:04:58 | 5:53:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 129.0 | 115.4 | 74.9 | 75.6 | 106.9 | 669.6 | 358.7 | 457.2 |
| 14:05:58 | 5:54:58 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.8 | 129.0 | 115.3 | 74.9 | 75.6 | 106.9 | 669.6 | 358.7 | 455.8 |
| 14:06:58 | 5:55:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.4 | 96.3 | 97.7 | 133.0 | 115.2 | 74.9 | 75.6 | 106.8 | 669.6 | 358.7 | 455.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000160

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:07:58 | 5:56:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.3 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 133.1 | 115.2 | 74.9 | 75.6 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:08:58 | 5:57:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.4 | 96.2 | 97.7 | 133.0 | 115.1 | 74.9 | 75.6 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:09:58 | 5:58:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.4 | 96.2 | 97.6 | 133.0 | 115.0 | 74.8 | 75.5 | 106.7 | 669.6 | 358.7 | 455.7 |
| 14:10:59 | 5:59:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.4 | 101.9 | 117.2 | 133.0 | 115.0 | 74.9 | 75.6 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:11:59 | 6:00:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.2 | 98.2 | 96.6 | 104.6 | 122.8 | 133.0 | 114.9 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:12:59 | 6:01:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.1 | 98.4 | 98.4 | 96.8 | 99.4 | 104.5 | 133.0 | 114.8 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 455.8 |
| 14:13:59 | 6:02:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.3 | 98.4 | 96.9 | 97.3 | 97.7 | 133.0 | 114.7 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:14:59 | 6:03:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.1 | 133.0 | 114.7 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 455.6 |
| 14:15:59 | 6:04:59 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.1 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.3 | 97.7 | 132.9 | 114.7 | 74.9 | 75.5 | 106.8 | 669.6 | 358.7 | 455.6 |
| 14:16:59 | 6:06:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.3 | 98.0 | 132.9 | 114.5 | 74.8 | 75.5 | 106.8 | 669.6 | 358.7 | 455.7 |
| 14:17:59 | 6:07:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 98.2 | 132.8 | 114.5 | 74.8 | 75.4 | 106.7 | 669.6 | 358.7 | 455.7 |
| 14:18:59 | 6:08:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 132.8 | 114.4 | 74.8 | 75.5 | 106.7 | 669.6 | 358.7 | 455.6 |
| 14:19:59 | 6:09:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.7 | 97.1 | 98.3 | 132.6 | 114.3 | 74.8 | 75.5 | 106.7 | 669.6 | 358.7 | 455.7 |
| 14:21:00 | 6:10:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.3 | 132.6 | 114.2 | 74.8 | 75.4 | 106.6 | 669.6 | 358.7 | 455.7 |
| 14:22:00 | 6:11:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 132.6 | 114.2 | 74.8 | 75.5 | 106.7 | 669.6 | 358.7 | 455.7 |
| 14:23:00 | 6:12:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.9 | 98.2 | 132.5 | 114.1 | 74.8 | 75.5 | 106.6 | 669.6 | 358.7 | 455.7 |
| 14:24:00 | 6:13:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.2 | 96.7 | 96.8 | 98.2 | 132.6 | 114.1 | 74.8 | 75.5 | 106.6 | 669.6 | 358.7 | 455.7 |
| 14:25:00 | 6:14:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.6 | 96.8 | 98.1 | 132.5 | 116.3 | 74.8 | 75.5 | 108.6 | 669.6 | 358.7 | 455.7 |
| 14:26:00 | 6:15:00 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 98.0 | 98.1 | 96.7 | 96.8 | 98.1 | 132.4 | 117.7 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 455.7 |
| 14:27:00 | 6:16:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.6 | 96.8 | 98.1 | 132.4 | 117.8 | 74.8 | 75.4 | 107.1 | 669.6 | 358.7 | 455.7 |
| 14:28:00 | 6:17:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 132.2 | 117.6 | 74.7 | 75.5 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:29:00 | 6:18:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.6 | 98.0 | 97.9 | 98.1 | 96.5 | 96.6 | 98.0 | 132.2 | 117.6 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 455.7 |
| 14:30:00 | 6:19:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 98.0 | 132.1 | 117.5 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:31:01 | 6:20:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.8 | 98.4 | 98.0 | 97.9 | 98.1 | 96.6 | 96.6 | 97.9 | 132.1 | 117.4 | 74.8 | 75.5 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:32:01 | 6:21:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.6 | 97.9 | 132.1 | 117.4 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.1 |
| 14:33:01 | 6:22:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.0 | 96.5 | 96.4 | 97.8 | 132.0 | 117.3 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 455.6 |
| 14:34:01 | 6:23:01 | 26.2 | 26.1 | 30.1 | 59.0 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.9 | 98.1 | 96.6 | 96.4 | 97.8 | 132.0 | 117.3 | 74.9 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:35:01 | 6:24:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.8 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.4 | 97.8 | 132.0 | 117.1 | 74.8 | 75.6 | 107.2 | 669.6 | 358.8 | 454.2 |
| 14:36:01 | 6:25:01 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.0 | 97.7 | 98.4 | 97.9 | 97.8 | 98.0 | 96.5 | 96.3 | 97.7 | 131.9 | 117.0 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:37:01 | 6:26:02 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 97.9 | 97.7 | 98.3 | 97.8 | 97.8 | 98.0 | 96.5 | 97.8 | 105.2 | 131.8 | 116.9 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:38:01 | 6:27:02 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.1 | 97.9 | 98.4 | 97.9 | 98.0 | 98.1 | 96.6 | 104.1 | 123.6 | 131.7 | 116.9 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:39:01 | 6:28:02 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.3 | 98.2 | 98.6 | 98.1 | 98.3 | 98.3 | 96.8 | 101.6 | 112.3 | 131.6 | 116.8 | 74.8 | 75.6 | 107.2 | 669.6 | 358.8 | 454.2 |
| | CYCLE PAUSED (kbrowning) 03/10/2015 22:21:25 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:39:25 | 6:28:25 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.3 | 98.7 | 98.2 | 98.4 | 98.3 | 96.8 | 99.9 | 106.2 | 131.7 | 116.8 | 74.8 | 75.6 | 107.3 | 669.6 | 358.7 | 454.1 |
| | EMISSION SYSTEM BYPASS ALARM 03/10/2015 22:21:25 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:39:25 | 6:28:25 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.3 | 98.7 | 98.2 | 98.4 | 98.3 | 96.8 | 99.9 | 106.2 | 131.7 | 116.8 | 74.8 | 75.6 | 107.3 | 669.6 | 358.7 | 454.1 |
| | EMISSION SYSTEM ALARM 03/10/2015 22:21:25 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:39:25 | 6:28:25 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.3 | 98.7 | 98.2 | 98.4 | 98.3 | 96.8 | 99.9 | 106.2 | 131.7 | 116.8 | 74.8 | 75.6 | 107.3 | 669.6 | 358.7 | 454.1 |
| 14:40:01 | 6:28:25 | 26.2 | 26.1 | 30.1 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.4 | 98.4 | 96.9 | 98.3 | 100.6 | 131.6 | 116.7 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:41:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.4 | 98.2 | 98.7 | 98.2 | 98.3 | 98.4 | 96.9 | 97.1 | 96.9 | 131.5 | 116.7 | 74.8 | 75.6 | 107.2 | 669.6 | 358.8 | 454.2 |
| | ALARM SILENCED (gbonilla) 03/10/2015 22:23:40 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:41:40 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.8 | 97.1 | 97.0 | 131.5 | 116.6 | 74.8 | 75.6 | 107.3 | 669.6 | 358.7 | 454.2 |
| 14:42:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.9 | 97.3 | 97.3 | 131.5 | 116.6 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:43:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.3 | 98.1 | 98.7 | 98.2 | 98.2 | 98.3 | 96.8 | 97.3 | 97.9 | 131.4 | 116.5 | 74.9 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:44:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.2 | 131.4 | 116.4 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.0 |
| | EMISSION SYSTEM ALARM RESET 03/10/2015 22:26:48 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:44:48 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.3 | 131.4 | 116.4 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:45:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.3 | 98.0 | 98.6 | 98.2 | 98.1 | 98.2 | 96.8 | 97.3 | 98.3 | 131.4 | 116.3 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:46:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.4 | 131.3 | 116.3 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.3 |
| | EMISSION SYSTEM BYPASS ALARM RESET 03/10/2015 22:28:44 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:46:44 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.4 | 131.2 | 116.2 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:47:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.8 | 97.1 | 98.3 | 131.2 | 116.2 | 74.8 | 75.6 | 107.2 | 669.6 | 358.7 | 454.2 |
| 14:48:02 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.1 | 98.2 | 96.7 | 97.1 | 98.4 | 131.1 | 116.1 | 74.8 | 75.6 | 107.1 | 669.6 | 358.8 | 454.2 |
| | CYCLE RESUMED (gbonilla) 03/10/2015 22:30:02 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:48:03 | 6:28:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 97.1 | 98.4 | 131.1 | 116.1 | 74.8 | 75.6 | 107.1 | 669.6 | 358.7 | 454.2 |
| 14:49:02 | 6:29:25 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.2 | 96.7 | 96.9 | 98.3 | 131.1 | 116.0 | 74.8 | 75.6 | 107.1 | 669.6 | 358.8 | 454.2 |
| | MANUAL PHASE ADVANCE (gbonilla) 03/10/2015 22:31:35 | | | | | | | | | | | | | | | | | | | | | | | |
| 14:49:35 | 6:29:57 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.0 | 116.0 | 74.8 | 75.6 | 107.1 | 669.6 | 358.8 | 454.2 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000161

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

EXPOSURE(2) SUMMARY 03/10/2015 22:31:35

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:49:35 | 6:29:57 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.0 | 116.0 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 454.2 |

START PRESS: 0026.2 MAX PRESS: 0026.2 MAX TEMP: 098.3 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 134.0 MAX GAS TEMP: 076.7
END PRESS: 0026.2 MIN PRESS: 0026.1 MIN TEMP: 096.4 DRM1 END: 669.6 DRM2 END: 358.8 MIN PRE TEMP: 128.9 MIN GAS TEMP: 074.7
PRESS CHANGE: 000.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.8
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

STERILANT REMOVAL 03/10/2015 22:31:35

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 14:49:35 | 0:00:00 | 26.2 | 26.1 | 30.0 | 59.5 | 100.0 | 98.2 | 98.0 | 98.6 | 98.1 | 98.0 | 98.1 | 96.7 | 96.9 | 98.3 | 131.0 | 116.0 | 74.9 | 75.6 | 107.1 | 669.6 | 358.8 | 454.2 |
| 14:50:35 | 0:01:00 | 25.0 | 24.9 | 30.0 | 57.7 | 100.0 | 97.9 | 97.7 | 98.2 | 97.9 | 97.8 | 97.9 | 96.5 | 99.9 | 107.4 | 131.0 | 115.9 | 74.8 | 80.2 | 107.1 | 669.6 | 358.8 | 434.6 |
| 14:51:35 | 0:02:00 | 24.4 | 24.3 | 30.0 | 57.2 | 100.0 | 98.0 | 97.8 | 98.3 | 97.9 | 97.9 | 98.0 | 96.6 | 100.2 | 107.7 | 131.0 | 115.9 | 74.8 | 81.5 | 107.1 | 669.6 | 358.8 | 425.5 |
| 14:52:35 | 0:03:00 | 23.8 | 23.7 | 30.0 | 56.3 | 100.0 | 98.0 | 97.8 | 98.3 | 97.9 | 97.9 | 98.0 | 96.6 | 100.6 | 108.3 | 131.0 | 115.8 | 74.8 | 82.7 | 107.1 | 669.6 | 358.7 | 413.5 |
| 14:53:35 | 0:04:00 | 23.2 | 23.1 | 30.0 | 55.4 | 100.0 | 98.1 | 97.9 | 98.3 | 98.0 | 98.0 | 98.1 | 96.6 | 100.8 | 108.8 | 131.0 | 115.7 | 74.8 | 83.5 | 107.1 | 669.6 | 358.8 | 401.5 |
| 14:54:35 | 0:05:00 | 22.6 | 22.5 | 30.0 | 54.9 | 100.0 | 98.2 | 98.0 | 98.4 | 98.1 | 98.0 | 98.1 | 96.7 | 100.9 | 109.1 | 131.0 | 115.6 | 74.8 | 84.0 | 107.1 | 669.6 | 358.8 | 390.9 |
| 14:55:35 | 0:06:00 | 21.9 | 21.8 | 30.0 | 54.0 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.0 | 98.1 | 96.7 | 100.9 | 109.5 | 130.9 | 115.6 | 74.8 | 84.5 | 107.2 | 669.6 | 358.7 | 378.8 |
| 14:56:35 | 0:07:01 | 21.3 | 21.2 | 30.0 | 53.1 | 100.0 | 98.1 | 97.9 | 98.4 | 98.0 | 98.1 | 98.1 | 96.7 | 100.1 | 107.9 | 130.7 | 115.5 | 74.8 | 84.9 | 107.1 | 669.6 | 358.8 | 365.2 |
| 14:57:35 | 0:08:01 | 20.6 | 20.5 | 30.0 | 52.7 | 100.0 | 98.2 | 98.0 | 98.4 | 98.1 | 98.1 | 98.1 | 96.7 | 99.2 | 103.8 | 130.8 | 115.4 | 74.8 | 85.3 | 107.1 | 669.6 | 358.8 | 354.7 |
| 14:58:36 | 0:09:01 | 19.9 | 19.8 | 30.0 | 51.8 | 100.0 | 98.2 | 98.0 | 98.4 | 98.1 | 98.1 | 98.1 | 96.7 | 99.5 | 103.1 | 130.7 | 115.4 | 74.8 | 85.8 | 107.1 | 669.6 | 358.8 | 342.6 |
| 14:59:36 | 0:10:01 | 19.3 | 19.2 | 30.0 | 50.8 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 100.3 | 105.2 | 130.7 | 115.3 | 74.8 | 86.0 | 107.2 | 669.6 | 358.7 | 330.6 |
| 15:00:36 | 0:11:01 | 18.6 | 18.5 | 30.0 | 50.4 | 100.0 | 98.2 | 98.0 | 98.4 | 98.1 | 98.1 | 98.1 | 96.8 | 101.3 | 108.2 | 130.5 | 115.2 | 74.8 | 86.4 | 107.1 | 669.6 | 358.8 | 318.5 |
| 15:01:36 | 0:12:01 | 18.0 | 17.9 | 30.0 | 49.5 | 100.0 | 98.2 | 98.0 | 98.4 | 98.1 | 98.2 | 98.2 | 96.8 | 101.1 | 109.3 | 130.4 | 115.1 | 74.8 | 86.5 | 107.1 | 669.6 | 358.7 | 306.5 |
| 15:02:36 | 0:13:01 | 17.3 | 17.2 | 30.0 | 48.6 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.2 | 98.2 | 96.8 | 99.2 | 102.1 | 130.4 | 115.1 | 74.8 | 86.8 | 107.1 | 669.6 | 358.7 | 295.9 |
| 15:03:36 | 0:14:01 | 16.6 | 16.5 | 30.0 | 47.7 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.2 | 98.1 | 96.8 | 100.1 | 104.1 | 130.2 | 115.0 | 74.8 | 87.0 | 107.1 | 669.6 | 358.7 | 282.4 |
| 15:04:36 | 0:15:01 | 16.0 | 15.9 | 30.0 | 47.3 | 100.0 | 98.2 | 98.0 | 98.6 | 98.2 | 98.1 | 98.1 | 96.8 | 101.5 | 108.0 | 130.3 | 115.0 | 74.8 | 87.2 | 107.2 | 669.6 | 358.7 | 271.8 |
| 15:05:36 | 0:16:01 | 15.3 | 15.2 | 30.0 | 46.3 | 100.0 | 98.2 | 98.0 | 98.4 | 98.2 | 98.2 | 98.2 | 96.8 | 100.6 | 108.0 | 130.2 | 114.8 | 74.8 | 87.4 | 107.2 | 669.6 | 358.7 | 259.7 |
| 15:06:36 | 0:17:02 | 14.6 | 14.5 | 30.0 | 45.4 | 100.0 | 98.2 | 98.0 | 98.4 | 98.2 | 98.2 | 98.2 | 96.9 | 99.5 | 102.1 | 130.2 | 114.8 | 74.8 | 87.6 | 107.2 | 669.6 | 358.7 | 246.2 |
| 15:07:36 | 0:18:02 | 13.9 | 13.9 | 30.0 | 44.9 | 100.0 | 98.3 | 98.1 | 98.6 | 98.3 | 98.2 | 98.2 | 96.8 | 101.0 | 106.4 | 130.1 | 114.7 | 74.9 | 87.5 | 107.1 | 669.6 | 358.8 | 235.7 |
| 15:08:37 | 0:19:02 | 13.2 | 13.1 | 30.0 | 44.0 | 100.0 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.2 | 96.9 | 101.3 | 109.3 | 130.1 | 114.7 | 74.9 | 87.6 | 107.1 | 669.6 | 358.7 | 225.1 |
| 15:09:37 | 0:20:02 | 12.5 | 12.5 | 30.0 | 43.1 | 99.5 | 98.3 | 98.0 | 98.6 | 98.3 | 98.1 | 98.1 | 96.9 | 99.5 | 101.8 | 130.0 | 114.6 | 74.9 | 87.7 | 107.1 | 669.6 | 358.7 | 213.0 |
| 15:10:37 | 0:21:02 | 11.9 | 11.8 | 30.0 | 42.2 | 97.7 | 98.2 | 98.0 | 98.4 | 98.2 | 98.1 | 98.1 | 96.9 | 100.8 | 105.8 | 129.9 | 114.5 | 74.9 | 87.6 | 107.1 | 669.6 | 358.7 | 202.5 |
| 15:11:37 | 0:22:02 | 11.2 | 11.1 | 30.0 | 41.3 | 95.5 | 98.2 | 98.0 | 98.4 | 98.2 | 98.1 | 98.1 | 96.8 | 101.7 | 109.7 | 129.9 | 114.4 | 74.9 | 87.6 | 107.1 | 669.6 | 358.7 | 190.4 |
| 15:12:37 | 0:23:02 | 10.5 | 10.5 | 30.0 | 40.8 | 94.4 | 98.2 | 98.0 | 98.4 | 98.3 | 98.1 | 98.2 | 96.9 | 99.5 | 101.3 | 129.9 | 114.4 | 75.0 | 87.6 | 107.1 | 669.6 | 358.7 | 179.9 |
| 15:13:37 | 0:24:02 | 9.9 | 9.8 | 30.0 | 39.9 | 92.3 | 98.2 | 98.0 | 98.4 | 98.3 | 98.0 | 98.1 | 96.8 | 100.9 | 105.8 | 129.8 | 114.3 | 74.9 | 87.5 | 107.1 | 669.6 | 358.7 | 169.3 |
| 15:14:37 | 0:25:02 | 9.2 | 9.1 | 30.0 | 39.0 | 90.3 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.8 | 101.5 | 109.4 | 129.7 | 114.2 | 74.9 | 87.4 | 107.0 | 669.6 | 358.7 | 158.8 |
| 15:15:37 | 0:26:02 | 8.5 | 8.5 | 30.0 | 38.1 | 88.3 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.8 | 99.5 | 101.6 | 129.6 | 114.1 | 74.9 | 87.4 | 107.0 | 669.6 | 358.7 | 146.8 |
| 15:16:37 | 0:27:03 | 7.8 | 7.8 | 30.0 | 36.8 | 85.1 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.8 | 101.0 | 105.8 | 129.6 | 114.1 | 74.9 | 87.4 | 107.0 | 669.6 | 358.7 | 137.8 |
| 15:17:37 | 0:28:03 | 7.2 | 7.2 | 30.0 | 35.8 | 83.1 | 98.1 | 97.8 | 98.4 | 98.2 | 98.0 | 98.2 | 96.8 | 101.3 | 109.0 | 129.5 | 117.0 | 74.9 | 87.4 | 108.1 | 669.6 | 358.7 | 125.6 |
| 15:18:38 | 0:29:03 | 6.6 | 6.6 | 30.0 | 34.9 | 80.9 | 98.2 | 97.9 | 98.4 | 98.2 | 98.0 | 98.1 | 96.8 | 99.6 | 101.6 | 129.5 | 117.4 | 74.9 | 87.4 | 107.5 | 669.6 | 358.7 | 113.6 |
| 15:19:38 | 0:30:03 | 6.1 | 6.0 | 30.0 | 34.5 | 79.9 | 98.1 | 97.8 | 98.4 | 98.2 | 98.0 | 98.2 | 96.8 | 101.0 | 105.7 | 129.4 | 117.4 | 74.9 | 87.2 | 107.5 | 669.6 | 358.7 | 106.1 |
| 15:20:38 | 0:31:03 | 5.7 | 5.6 | 30.0 | 34.0 | 78.7 | 98.2 | 97.9 | 98.6 | 98.2 | 98.0 | 98.3 | 96.8 | 101.2 | 108.7 | 129.3 | 117.3 | 74.8 | 87.0 | 107.5 | 669.6 | 358.8 | 98.6 |
| 15:21:38 | 0:32:03 | 5.3 | 5.2 | 30.0 | 33.6 | 77.4 | 98.3 | 98.0 | 98.6 | 98.3 | 98.0 | 98.3 | 96.8 | 99.7 | 101.8 | 129.3 | 117.3 | 74.9 | 86.7 | 107.6 | 669.6 | 358.8 | 92.6 |

STERILANT REMOVAL SUMMARY 03/10/2015 23:03:53

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:21:53 | 0:32:18 | 5.0 | 4.9 | 30.0 | 33.6 | 77.8 | 98.2 | 97.8 | 98.6 | 98.2 | 97.9 | 98.2 | 96.8 | 99.3 | 101.6 | 129.2 | 117.2 | 74.9 | 86.9 | 107.[illegible] | 669.6 | 358.7 | 89.5 |

START PRESS: 0026.2 MAX PRESS: 0026.2 MAX TEMP: 098.3 DRM1 START: 669.6 DRM2 START: 358.8 MAX PRE TEMP: 131.1 MAX GAS TEMP: 075.0
END PRESS: 0005.0 MIN PRESS: 0005.0 MIN TEMP: 096.5 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 129.2 MIN GAS TEMP: 074.7



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000162

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

PRESS CHANGE: 021.2

ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.5

EO USED PHASE: 000.0 EO USED CYCLE:028.5

MIN VAP TEMP: 114.0

POST N2 WASH(1) 03/10/2015 23:03:53

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:21:53 | 0:00:00 | 5.0 | 4.9 | 30.0 | 33.6 | 77.8 | 98.2 | 97.8 | 98.6 | 98.2 | 97.9 | 98.2 | 96.8 | 99.3 | 101.6 | 129.2 | 117.2 | 74.9 | 86.9 | 107.6 | 669.6 | 358.7 | 89.5 |
| 15:22:53 | 0:01:00 | 6.3 | 6.2 | 30.0 | 34.0 | 77.8 | 98.6 | 98.3 | 99.1 | 98.5 | 98.4 | 98.7 | 97.0 | 100.2 | 103.3 | 129.3 | 117.1 | 88.9 | 86.5 | 107.6 | 669.6 | 358.7 | 92.6 |
| 15:23:53 | 0:02:00 | 7.5 | 7.5 | 30.0 | 34.0 | 77.2 | 98.9 | 98.6 | 99.3 | 98.8 | 98.7 | 99.0 | 97.3 | 101.7 | 108.0 | 129.3 | 117.0 | 100.5 | 85.8 | 107.6 | 669.6 | 358.7 | 91.1 |
| 15:24:53 | 0:03:00 | 8.8 | 8.7 | 30.0 | 34.5 | 77.7 | 99.1 | 98.8 | 99.7 | 99.0 | 99.0 | 99.2 | 97.5 | 100.0 | 105.4 | 129.2 | 116.9 | 105.3 | 85.0 | 107.6 | 669.6 | 358.7 | 88.0 |
| 15:25:53 | 0:04:00 | 10.1 | 10.0 | 30.0 | 34.9 | 78.3 | 99.3 | 99.0 | 99.8 | 99.2 | 99.1 | 99.4 | 97.7 | 99.8 | 102.3 | 129.1 | 116.7 | 107.2 | 84.4 | 107.6 | 669.6 | 358.7 | 86.5 |
| 15:26:53 | 0:05:00 | 11.3 | 11.2 | 30.0 | 35.0 | 78.1 | 99.4 | 99.1 | 99.8 | 99.3 | 99.2 | 99.5 | 97.9 | 101.3 | 106.6 | 129.0 | 116.6 | 107.8 | 83.8 | 107.6 | 669.6 | 358.8 | 85.0 |
| 15:27:54 | 0:06:00 | 12.6 | 12.5 | 30.0 | 35.4 | 78.9 | 99.5 | 99.2 | 100.0 | 99.4 | 99.3 | 99.6 | 97.9 | 101.2 | 108.7 | 129.0 | 116.5 | 108.1 | 83.2 | 107.5 | 669.6 | 358.7 | 85.0 |
| 15:28:54 | 0:07:01 | 13.9 | 13.8 | 30.0 | 35.9 | 79.8 | 99.6 | 99.3 | 100.0 | 99.5 | 99.4 | 99.6 | 98.1 | 99.4 | 101.1 | 133.3 | 116.3 | 108.2 | 82.7 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:29:54 | 0:08:01 | 15.2 | 15.1 | 30.0 | 35.8 | 79.5 | 99.7 | 99.4 | 100.1 | 99.6 | 99.5 | 99.7 | 98.2 | 100.6 | 104.4 | 133.5 | 116.1 | 108.2 | 82.3 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:30:54 | 0:09:01 | 16.4 | 16.3 | 30.0 | 36.3 | 80.7 | 99.6 | 99.3 | 100.0 | 99.6 | 99.5 | 99.7 | 98.3 | 101.9 | 109.2 | 133.5 | 116.1 | 108.2 | 81.9 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:31:54 | 0:10:01 | 17.7 | 17.6 | 30.0 | 36.3 | 80.4 | 99.7 | 99.4 | 100.1 | 99.7 | 99.5 | 99.7 | 98.3 | 99.3 | 102.3 | 133.4 | 115.9 | 108.2 | 81.5 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:32:54 | 0:11:01 | 19.0 | 18.9 | 30.0 | 36.8 | 81.3 | 99.8 | 99.5 | 100.2 | 99.8 | 99.6 | 99.7 | 98.4 | 100.1 | 102.9 | 133.4 | 115.8 | 108.2 | 81.1 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:33:54 | 0:12:01 | 20.3 | 20.2 | 30.0 | 36.8 | 81.2 | 99.8 | 99.5 | 100.2 | 99.8 | 99.6 | 99.7 | 98.4 | 101.7 | 107.9 | 133.4 | 115.6 | 108.1 | 80.8 | 107.5 | 669.6 | 358.7 | 83.5 |
| 15:34:54 | 0:13:01 | 21.5 | 21.4 | 30.0 | 37.7 | 83.1 | 99.9 | 99.6 | 100.2 | 99.9 | 99.6 | 99.8 | 98.5 | 100.3 | 106.0 | 133.4 | 115.5 | 108.2 | 80.5 | 107.4 | 669.6 | 358.7 | 83.5 |
| 15:35:54 | 0:14:01 | 22.8 | 22.7 | 30.0 | 37.7 | 83.1 | 99.9 | 99.6 | 100.2 | 99.9 | 99.7 | 99.8 | 98.6 | 99.7 | 101.8 | 133.3 | 115.3 | 108.1 | 80.2 | 107.4 | 669.6 | 358.7 | 83.5 |
| 15:36:54 | 0:15:01 | 24.0 | 23.9 | 30.0 | 37.7 | 83.0 | 99.9 | 99.6 | 100.2 | 100.0 | 99.7 | 99.8 | 98.6 | 101.2 | 106.3 | 133.4 | 115.2 | 108.1 | 80.0 | 107.4 | 669.6 | 358.7 | 83.5 |
| 15:37:55 | 0:16:01 | 25.3 | 25.2 | 30.0 | 38.1 | 83.8 | 100.0 | 99.7 | 100.3 | 100.0 | 99.7 | 99.8 | 98.7 | 101.3 | 108.7 | 133.2 | 115.2 | 108.1 | 79.7 | 107.3 | 669.6 | 358.7 | 83.5 |
| 15:38:55 | 0:17:02 | 26.6 | 26.5 | 30.0 | 38.6 | 84.8 | 100.0 | 99.7 | 100.3 | 100.1 | 99.8 | 99.9 | 98.7 | 99.4 | 101.0 | 133.1 | 115.0 | 108.0 | 79.5 | 107.3 | 669.6 | 358.8 | 83.5 |
| 15:39:55 | 0:18:02 | 27.9 | 27.8 | 29.9 | 38.6 | 84.5 | 100.1 | 99.8 | 100.3 | 100.2 | 99.9 | 99.9 | 98.8 | 100.7 | 104.5 | 133.0 | 114.8 | 107.9 | 79.4 | 107.3 | 669.6 | 358.7 | 83.5 |

POST N2 WASH(1) SUMMARY 03/10/2015 23:22:24

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:40:24 | 0:18:31 | 28.5 | 28.4 | 30.0 | 38.6 | 84.5 | 100.1 | 99.8 | 100.3 | 100.2 | 99.8 | 99.9 | 98.8 | 99.3 | 100.6 | 133.0 | 114.8 | 107.9 | 79.2 | 107.3 | 669.6 | 358.8 | 83.5 |

START PRESS: 0005.0 MAX PRESS: 0028.5 MAX TEMP: 100.1 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.6 MAX GAS TEMP: 108.3

END PRESS: 0028.5 MIN PRESS: 0005.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 358.8 MIN PRE TEMP: 128.9 MIN GAS TEMP: 074.8

PRESS CHANGE: 023.5

ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.3

EO USED PHASE: 000.0 EO USED CYCLE:028.5

MIN VAP TEMP: 114.7

POST EVACUATION(1) 03/10/2015 23:22:24

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:40:24 | 0:00:00 | 28.5 | 28.4 | 30.0 | 38.6 | 84.5 | 100.1 | 99.8 | 100.3 | 100.2 | 99.8 | 99.9 | 98.8 | 99.3 | 100.6 | 133.0 | 114.8 | 107.9 | 79.2 | 107.3 | 669.6 | 358.8 | 83.5 |
| 15:41:24 | 0:01:00 | 26.8 | 26.7 | 30.0 | 37.7 | 84.2 | 99.4 | 99.0 | 99.6 | 99.7 | 99.2 | 99.2 | 98.3 | 100.6 | 104.4 | 133.0 | 114.6 | 105.7 | 83.0 | 107.3 | 669.6 | 358.7 | 77.5 |
| 15:42:24 | 0:02:00 | 25.5 | 25.4 | 30.0 | 36.3 | 81.8 | 99.1 | 98.7 | 99.3 | 99.4 | 98.9 | 98.9 | 98.1 | 101.6 | 109.0 | 133.0 | 114.6 | 102.8 | 84.8 | 107.2 | 669.6 | 358.7 | 71.5 |
| 15:43:24 | 0:03:00 | 24.2 | 24.1 | 30.0 | 35.8 | 80.9 | 99.1 | 98.7 | 99.1 | 99.4 | 98.8 | 98.8 | 98.0 | 99.7 | 101.3 | 133.0 | 114.5 | 100.3 | 86.1 | 107.2 | 669.6 | 358.7 | 66.9 |
| 15:44:25 | 0:04:00 | 22.9 | 22.8 | 30.0 | 34.9 | 79.3 | 98.9 | 98.5 | 98.9 | 99.2 | 98.7 | 98.7 | 97.9 | 101.2 | 106.2 | 132.8 | 114.4 | 98.0 | 86.9 | 107.2 | 669.6 | 358.7 | 62.4 |
| 15:45:25 | 0:05:00 | 21.5 | 21.5 | 30.0 | 34.5 | 78.4 | 98.8 | 98.4 | 98.9 | 99.1 | 98.5 | 98.7 | 97.8 | 100.6 | 106.8 | 132.8 | 114.4 | 95.9 | 87.6 | 107.1 | 669.6 | 358.7 | 57.9 |
| 15:46:25 | 0:06:00 | 20.2 | 20.1 | 30.0 | 34.0 | 77.4 | 98.8 | 98.4 | 98.9 | 99.0 | 98.5 | 98.5 | 97.7 | 99.9 | 102.2 | 132.8 | 114.3 | 94.0 | 88.1 | 107.1 | 669.6 | 358.7 | 54.9 |
| 15:47:25 | 0:07:01 | 18.9 | 18.8 | 30.0 | 33.6 | 76.7 | 98.6 | 98.3 | 98.7 | 98.9 | 98.4 | 98.4 | 97.6 | 101.7 | 107.9 | 132.7 | 114.2 | 92.5 | 88.4 | 107.1 | 669.6 | 358.7 | 51.9 |
| 15:48:25 | 0:08:01 | 17.5 | 17.4 | 30.0 | 33.1 | 75.8 | 98.6 | 98.2 | 98.7 | 98.9 | 98.4 | 98.4 | 97.5 | 99.4 | 102.4 | 132.5 | 114.2 | 91.0 | 88.8 | 107.1 | 669.6 | 358.7 | 48.8 |
| 15:49:25 | 0:09:01 | 16.2 | 16.1 | 30.0 | 32.2 | 73.9 | 98.5 | 98.1 | 98.6 | 98.8 | 98.3 | 98.3 | 97.4 | 100.3 | 103.4 | 132.5 | 114.1 | 89.7 | 89.0 | 107.1 | 669.6 | 358.7 | 45.9 |
| 15:50:25 | 0:10:01 | 14.8 | 14.8 | 30.0 | 32.2 | 74.0 | 98.4 | 98.0 | 98.6 | 98.7 | 98.2 | 98.2 | 97.4 | 101.9 | 109.2 | 132.5 | 117.4 | 88.6 | 89.2 | 107.8 | 669.6 | 358.7 | 41.3 |
| 15:51:25 | 0:11:01 | 13.5 | 13.4 | 30.0 | 31.3 | 71.9 | 98.4 | 98.1 | 98.6 | 98.7 | 98.2 | 98.2 | 97.3 | 99.4 | 100.9 | 132.5 | 117.6 | 87.6 | 89.3 | 107.[illegible] | 669.6 | 358.8 | 38.3 |
| 15:52:25 | 0:12:01 | 12.1 | 12.1 | 30.0 | 30.9 | 71.1 | 98.3 | 97.9 | 98.4 | 98.7 | 98.0 | 98.1 | 97.2 | 100.8 | 104.8 | 132.4 | 117.5 | 86.7 | 89.4 | 107.6 | 669.6 | 358.7 | 35.4 |
| 15:53:25 | 0:13:01 | 10.8 | 10.7 | 30.0 | 30.0 | 69.2 | 98.3 | 97.8 | 98.4 | 98.6 | 98.0 | 98.1 | 97.2 | 101.6 | 109.0 | 132.4 | 117.5 | 85.8 | 89.5 | 107.6 | 669.6 | 358.7 | 30.9 |
| 15:54:26 | 0:14:01 | 9.5 | 9.4 | 30.0 | 29.0 | 67.2 | 98.2 | 97.7 | 98.3 | 98.5 | 97.9 | 98.0 | 97.1 | 99.6 | 101.3 | 132.3 | 117.4 | 85.0 | 89.5 | 107.6 | 669.6 | 358.7 | 27.8 |
| 15:55:26 | 0:15:01 | 8.1 | 8.1 | 30.0 | 28.6 | 66.3 | 98.1 | 97.7 | 98.2 | 98.4 | 97.8 | 97.9 | 97.0 | 101.0 | 105.3 | 132.2 | 117.3 | 84.4 | 89.5 | 107.6 | 669.6 | 358.8 | 24.8 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000163

| | | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 15:56:26 | 0:16:01 | 6.8 | 6.8 | 30.0 | 28.1 | 65.3 | 98.1 | 97.6 | 98.2 | 98.4 | 97.7 | 97.9 | 97.0 | 101.0 | 107.8 | 132.2 | 117.2 | 83.7 | 89.5 | 107.6 | 669.6 | 358.7 | 20.3 |
| 15:57:26 | 0:17:02 | 5.6 | 5.5 | 30.0 | 27.2 | 63.5 | 97.9 | 97.5 | 98.1 | 98.2 | 97.7 | 97.8 | 96.9 | 99.8 | 101.8 | 132.1 | 117.2 | 83.2 | 89.5 | 107.6 | 669.6 | 358.7 | 17.3 |
| 15:58:26 | 0:18:02 | 4.5 | 4.4 | 30.0 | 26.3 | 61.4 | 97.9 | 97.4 | 98.1 | 98.2 | 97.6 | 97.8 | 96.8 | 101.5 | 107.0 | 132.1 | 117.1 | 82.7 | 89.3 | 107.6 | 669.6 | 358.7 | 14.3 |
| 15:59:26 | 0:19:02 | 3.7 | 3.7 | 30.0 | 25.9 | 60.3 | 97.9 | 97.4 | 98.1 | 98.2 | 97.6 | 97.9 | 96.7 | 100.0 | 104.8 | 132.0 | 117.0 | 82.2 | 89.0 | 107.6 | 669.6 | 358.8 | 11.2 |
| 16:00:26 | 0:20:02 | 3.1 | 3.1 | 30.0 | 25.9 | 60.1 | 98.0 | 97.6 | 98.2 | 98.2 | 97.6 | 97.9 | 96.7 | 100.0 | 102.5 | 131.8 | 116.9 | 81.9 | 88.6 | 107.6 | 669.6 | 358.7 | 9.8 |
| 16:01:26 | 0:21:02 | 2.7 | 2.6 | 30.0 | 25.9 | 60.1 | 98.0 | 97.6 | 98.3 | 98.2 | 97.7 | 98.1 | 96.8 | 101.7 | 107.9 | 131.9 | 116.8 | 81.6 | 88.1 | 107.6 | 669.6 | 358.7 | 8.3 |
| 16:02:26 | 0:22:02 | 2.4 | 2.4 | 30.0 | 25.9 | 59.9 | 98.2 | 97.7 | 98.6 | 98.3 | 97.7 | 98.2 | 96.8 | 99.5 | 102.4 | 131.8 | 116.8 | 81.2 | 87.6 | 107.6 | 669.6 | 358.7 | 8.3 |
| 16:03:26 | 0:23:02 | 2.2 | 2.2 | 30.0 | 25.8 | 59.8 | 98.2 | 97.7 | 98.6 | 98.3 | 97.8 | 98.3 | 96.8 | 100.3 | 103.3 | 131.8 | 116.6 | 80.8 | 87.0 | 107.6 | 669.6 | 358.7 | 8.2 |
| 16:04:27 | 0:24:02 | 2.1 | 2.1 | 30.0 | 25.9 | 59.8 | 98.2 | 97.7 | 98.7 | 98.3 | 97.9 | 98.4 | 96.8 | 101.9 | 109.3 | 131.7 | 116.6 | 80.5 | 86.2 | 107.6 | 669.6 | 358.7 | 8.2 |

POST EVACUATION(1) SUMMARY 03/10/2015 23:47:25

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:05:25 | 0:25:01 | 2.0 | 2.0 | 30.0 | 26.3 | 60.7 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.5 | 96.8 | 99.4 | 100.8 | 131.7 | 116.5 | 80.2 | 85.6 | 107.6 | 669.6 | 358.7 | 8.3 |

START PRESS: 0028.5 MAX PRESS: 0028.5 MAX TEMP: 100.1 DRM1 START: 669.6 DRM2 START: 358.8 MAX PRE TEMP: 133.1 MAX GAS TEMP: 107.9
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 131.6 MIN GAS TEMP: 080.2
PRESS CHANGE: 026.5 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:1/7) 03/10/2015 23:47:25

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:05:25 | 0:00:00 | 2.0 | 2.0 | 30.0 | 26.3 | 60.7 | 98.3 | 97.8 | 98.8 | 98.4 | 97.9 | 98.5 | 96.8 | 99.4 | 100.8 | 131.7 | 116.5 | 80.2 | 85.6 | 107.6 | 669.6 | 358.7 | 8.3 |
| 16:07:25 | 0:02:00 | 4.8 | 4.8 | 30.0 | 27.7 | 62.7 | 98.9 | 98.6 | 99.4 | 98.8 | 98.7 | 99.1 | 97.3 | 102.0 | 109.3 | 131.6 | 116.4 | 79.8 | 84.6 | 107.6 | 669.6 | 358.8 | 8.3 |
| 16:09:26 | 0:04:00 | 7.5 | 7.4 | 30.0 | 28.6 | 63.8 | 99.4 | 99.3 | 99.8 | 99.2 | 99.3 | 99.5 | 97.6 | 100.3 | 103.4 | 131.5 | 116.2 | 79.4 | 83.6 | 107.5 | 669.6 | 358.8 | 8.3 |
| 16:11:26 | 0:06:00 | 10.2 | 10.1 | 30.0 | 29.0 | 64.4 | 99.7 | 99.5 | 100.2 | 99.4 | 99.7 | 99.7 | 97.9 | 100.0 | 104.7 | 131.4 | 116.1 | 79.1 | 82.7 | 107.6 | 669.6 | 358.7 | 8.2 |
| 16:13:26 | 0:08:00 | 12.9 | 12.8 | 30.0 | 30.0 | 66.2 | 99.8 | 99.7 | 100.3 | 99.5 | 99.7 | 99.8 | 98.0 | 101.3 | 106.5 | 131.3 | 116.0 | 78.7 | 81.9 | 107.6 | 669.6 | 358.7 | 8.2 |
| 16:15:26 | 0:10:00 | 15.7 | 15.6 | 30.0 | 30.4 | 67.2 | 99.8 | 99.7 | 100.3 | 99.5 | 99.8 | 99.9 | 98.1 | 99.6 | 101.3 | 131.1 | 115.8 | 78.4 | 81.3 | 107.5 | 669.6 | 358.7 | 8.2 |
| 16:17:26 | 0:12:00 | 18.3 | 18.2 | 30.0 | 31.3 | 69.1 | 99.9 | 99.8 | 100.3 | 99.5 | 99.9 | 100.1 | 98.1 | 101.7 | 109.3 | 131.0 | 115.6 | 78.2 | 80.6 | 107.4 | 669.6 | 358.7 | 8.2 |
| 16:19:26 | 0:14:01 | 21.0 | 20.9 | 30.0 | 31.3 | 69.0 | 99.9 | 99.8 | 100.5 | 99.5 | 100.0 | 100.1 | 98.2 | 100.6 | 104.3 | 130.9 | 115.5 | 77.9 | 80.1 | 107.4 | 669.6 | 358.7 | 8.2 |
| 16:21:26 | 0:16:01 | 23.9 | 23.8 | 30.0 | 32.2 | 70.9 | 100.0 | 99.9 | 100.5 | 99.6 | 100.0 | 100.1 | 98.3 | 99.4 | 102.4 | 130.8 | 115.4 | 77.7 | 79.5 | 107.3 | 669.6 | 358.7 | 8.2 |
| 16:23:26 | 0:18:01 | 26.5 | 26.4 | 30.0 | 32.2 | 70.7 | 100.0 | 100.0 | 100.5 | 99.7 | 100.1 | 100.1 | 98.3 | 101.6 | 107.5 | 130.7 | 115.2 | 77.3 | 79.1 | 107.3 | 669.6 | 358.7 | 8.3 |

AIR BACKFILL(1) (Loop:1/7) SUMMARY 03/11/2015 00:07:16

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:25:16 | 0:19:51 | 29.1 | 29.0 | 30.0 | 32.7 | 71.6 | 100.1 | 100.0 | 100.6 | 99.8 | 100.1 | 100.2 | 98.4 | 100.3 | 103.6 | 130.6 | 115.1 | 77.2 | 78.8 | 107.3 | 669.6 | 358.7 | 8.2 |

START PRESS: 0002.0 MAX PRESS: 0029.1 MAX TEMP: 100.2 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 131.7 MAX GAS TEMP: 080.3
END PRESS: 0029.1 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.6 MIN GAS TEMP: 077.2
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.5
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 115.0

POST EVACUATION(2) (Loop:1/7) 03/11/2015 00:07:16

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:25:16 | 0:00:00 | 29.1 | 29.0 | 30.0 | 32.7 | 71.6 | 100.1 | 100.0 | 100.6 | 99.8 | 100.1 | 100.2 | 98.4 | 100.3 | 103.6 | 130.6 | 115.1 | 77.2 | 78.8 | 107.3 | 669.6 | 358.7 | 8.2 |
| 16:27:16 | 0:02:00 | 26.0 | 25.9 | 30.0 | 31.3 | 70.4 | 99.2 | 99.0 | 99.4 | 99.3 | 99.2 | 99.2 | 98.0 | 99.4 | 100.8 | 130.6 | 115.0 | 77.1 | 84.5 | 107.2 | 669.6 | 358.7 | 6.7 |
| 16:29:16 | 0:04:00 | 23.5 | 23.4 | 30.0 | 30.9 | 69.8 | 99.0 | 98.7 | 99.3 | 99.1 | 98.9 | 98.9 | 97.8 | 101.7 | 108.9 | 130.5 | 114.8 | 76.8 | 86.7 | 107.2 | 669.6 | 358.7 | 0.7 |
| 16:31:16 | 0:06:00 | 20.8 | 20.7 | 30.0 | 30.0 | 68.0 | 98.8 | 98.5 | 99.1 | 99.0 | 98.7 | 98.7 | 97.6 | 101.2 | 106.0 | 130.3 | 114.7 | 76.7 | 88.1 | 107.2 | 669.6 | 358.7 | 0.7 |
| 16:33:17 | 0:08:00 | 18.1 | 18.0 | 30.0 | 29.0 | 66.1 | 98.7 | 98.4 | 98.9 | 98.9 | 98.5 | 98.7 | 97.5 | 99.9 | 102.2 | 130.1 | 114.5 | 76.6 | 88.9 | 107.2 | 669.6 | 358.7 | 0.7 |
| 16:35:17 | 0:10:00 | 15.5 | 15.4 | 30.0 | 28.6 | 65.3 | 98.6 | 98.3 | 98.8 | 98.8 | 98.4 | 98.4 | 97.4 | 99.3 | 101.8 | 130.1 | 114.4 | 76.4 | 89.4 | 107.2 | 669.6 | 358.8 | 0.8 |
| 16:37:17 | 0:12:00 | 12.8 | 12.7 | 30.0 | 27.7 | 63.5 | 98.5 | 98.1 | 98.7 | 98.7 | 98.2 | 98.3 | 97.3 | 102.0 | 109.2 | 130.0 | 114.3 | 76.4 | 89.6 | 107.2 | 669.6 | 358.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000164

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:39:17 | 0:14:01 | 10.1 | 10.0 | 30.0 | 26.8 | 61.9 | 98.2 | 97.9 | 98.4 | 98.4 | 98.1 | 98.2 | 97.1 | 100.8 | 104.7 | 129.9 | 114.1 | 76.3 | 89.5 | 107.1 | 669.6 | 358.7 | 0.7 |
| 16:41:17 | 0:16:01 | 7.4 | 7.3 | 30.0 | 25.9 | 60.0 | 98.1 | 97.7 | 98.3 | 98.3 | 97.8 | 98.0 | 96.9 | 99.5 | 101.2 | 129.8 | 117.3 | 76.3 | 89.3 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:43:17 | 0:18:01 | 4.9 | 4.9 | 30.0 | 25.0 | 58.2 | 97.9 | 97.5 | 98.1 | 98.1 | 97.7 | 97.9 | 96.8 | 101.1 | 108.2 | 129.6 | 117.4 | 76.2 | 89.0 | 107.6 | 669.6 | 358.8 | 0.8 |
| 16:45:17 | 0:20:01 | 3.2 | 3.1 | 30.0 | 24.0 | 56.1 | 97.9 | 97.5 | 98.2 | 98.0 | 97.6 | 98.0 | 96.7 | 101.4 | 106.7 | 129.6 | 117.2 | 76.0 | 88.4 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:47:17 | 0:22:01 | 2.2 | 2.2 | 30.0 | 23.6 | 54.8 | 98.1 | 97.6 | 98.6 | 98.1 | 97.7 | 98.2 | 96.7 | 100.1 | 102.7 | 129.4 | 117.1 | 76.0 | 87.4 | 107.6 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:1/7) SUMMARY 03/11/2015 00:30:01

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:48:01 | 0:22:45 | 2.0 | 2.0 | 30.0 | 23.6 | 54.7 | 98.1 | 97.7 | 98.6 | 98.1 | 97.7 | 98.3 | 96.7 | 101.6 | 109.0 | 129.4 | 117.1 | 75.9 | 87.0 | 107.6 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.1 MAX PRESS: 0029.2 MAX TEMP: 100.2 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 130.7 MAX GAS TEMP: 077.3
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.6 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 129.3 MIN GAS TEMP: 075.9
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.5
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:2/7) 03/11/2015 00:30:01

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 16:48:01 | 0:00:00 | 2.0 | 2.0 | 30.0 | 23.6 | 54.7 | 98.1 | 97.7 | 98.6 | 98.1 | 97.7 | 98.3 | 96.7 | 101.6 | 109.0 | 129.4 | 117.1 | 75.9 | 87.0 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:50:01 | 0:02:00 | 4.7 | 4.7 | 30.0 | 25.4 | 57.7 | 98.8 | 98.6 | 99.3 | 98.6 | 98.7 | 99.1 | 97.3 | 100.6 | 104.4 | 129.3 | 116.9 | 75.8 | 85.9 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:52:01 | 0:04:00 | 7.4 | 7.4 | 30.0 | 25.9 | 57.9 | 99.3 | 99.3 | 99.8 | 99.0 | 99.4 | 99.4 | 97.6 | 99.2 | 101.8 | 129.2 | 116.7 | 75.7 | 84.6 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:54:01 | 0:06:00 | 10.2 | 10.1 | 30.0 | 26.8 | 59.4 | 99.6 | 99.6 | 100.1 | 99.3 | 99.7 | 99.8 | 97.9 | 101.8 | 108.2 | 129.0 | 116.6 | 75.7 | 83.5 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:56:01 | 0:08:00 | 13.0 | 12.9 | 30.0 | 27.2 | 60.3 | 99.7 | 99.7 | 100.2 | 99.4 | 99.8 | 99.9 | 98.0 | 99.9 | 102.4 | 129.0 | 116.4 | 75.6 | 82.6 | 107.6 | 669.6 | 358.7 | 0.7 |
| 16:58:01 | 0:10:00 | 15.8 | 15.7 | 30.0 | 28.1 | 62.1 | 99.9 | 99.8 | 100.3 | 99.5 | 99.9 | 100.1 | 98.1 | 100.7 | 107.0 | 128.8 | 116.3 | 75.6 | 81.8 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:00:02 | 0:12:00 | 18.5 | 18.4 | 30.0 | 28.6 | 62.9 | 100.0 | 99.9 | 100.5 | 99.6 | 100.0 | 100.1 | 98.2 | 101.0 | 105.4 | 128.9 | 116.1 | 75.6 | 81.2 | 107.5 | 669.6 | 358.7 | 0.8 |
| 17:02:02 | 0:14:01 | 21.1 | 21.0 | 30.0 | 29.0 | 63.7 | 100.1 | 100.0 | 100.6 | 99.7 | 100.0 | 100.1 | 98.3 | 99.4 | 100.7 | 128.7 | 116.1 | 75.6 | 80.6 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:04:02 | 0:16:01 | 23.9 | 23.8 | 30.0 | 29.5 | 64.6 | 100.1 | 100.0 | 100.7 | 99.8 | 100.1 | 100.2 | 98.4 | 102.0 | 109.0 | 128.5 | 115.9 | 75.6 | 80.2 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:06:02 | 0:18:01 | 26.5 | 26.4 | 30.0 | 30.0 | 65.4 | 100.2 | 100.1 | 100.7 | 99.9 | 100.2 | 100.2 | 98.5 | 100.2 | 103.3 | 128.4 | 115.7 | 75.6 | 79.8 | 107.5 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(1) (Loop:2/7) SUMMARY 03/11/2015 00:49:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:07:51 | 0:19:50 | 29.1 | 29.0 | 30.0 | 30.0 | 65.4 | 100.2 | 100.1 | 100.7 | 100.0 | 100.3 | 100.3 | 98.7 | 99.4 | 100.8 | 128.5 | 115.7 | 75.6 | 79.6 | 107.5 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.1 MAX TEMP: 100.3 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 129.4 MAX GAS TEMP: 076.0
END PRESS: 0029.1 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.4 MIN GAS TEMP: 075.5
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.1
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 115.6

POST EVACUATION(2) (Loop:2/7) 03/11/2015 00:49:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:07:51 | 0:00:00 | 29.1 | 29.0 | 30.0 | 30.0 | 65.4 | 100.2 | 100.1 | 100.7 | 100.0 | 100.3 | 100.3 | 98.7 | 99.4 | 100.8 | 128.5 | 115.7 | 75.6 | 79.6 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:09:51 | 0:02:00 | 26.1 | 26.0 | 30.0 | 29.0 | 65.1 | 99.3 | 99.0 | 99.6 | 99.4 | 99.3 | 99.2 | 98.1 | 100.8 | 107.0 | 133.4 | 115.5 | 75.6 | 85.3 | 107.4 | 669.6 | 358.7 | 0.8 |
| 17:11:51 | 0:04:00 | 23.4 | 23.4 | 30.0 | 28.6 | 64.4 | 99.1 | 98.8 | 99.3 | 99.2 | 99.0 | 99.0 | 97.9 | 101.8 | 108.1 | 133.6 | 115.4 | 75.6 | 87.4 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:13:52 | 0:06:00 | 20.8 | 20.7 | 30.0 | 28.1 | 63.6 | 99.0 | 98.7 | 99.3 | 99.2 | 98.8 | 98.8 | 97.8 | 100.6 | 103.8 | 133.4 | 115.3 | 75.6 | 88.5 | 107.4 | 669.6 | 358.7 | 0.8 |
| 17:15:52 | 0:08:00 | 18.1 | 18.0 | 30.0 | 27.7 | 62.9 | 98.8 | 98.5 | 99.1 | 99.0 | 98.7 | 98.7 | 97.6 | 99.6 | 101.1 | 133.4 | 115.1 | 75.6 | 89.3 | 107.5 | 669.6 | 358.7 | 0.7 |
| 17:17:52 | 0:10:00 | 15.4 | 15.3 | 30.0 | 27.2 | 62.2 | 98.7 | 98.3 | 98.8 | 98.9 | 98.5 | 98.7 | 97.5 | 100.5 | 106.2 | 133.4 | 115.0 | 75.6 | 89.7 | 107.4 | 669.6 | 358.7 | 0.8 |
| 17:19:52 | 0:12:00 | 12.8 | 12.7 | 30.0 | 26.3 | 60.2 | 98.6 | 98.2 | 98.8 | 98.8 | 98.3 | 98.4 | 97.3 | 101.7 | 107.6 | 133.2 | 114.8 | 75.6 | 89.9 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:21:52 | 0:14:01 | 10.1 | 10.0 | 30.0 | 25.9 | 59.5 | 98.4 | 98.0 | 98.6 | 98.6 | 98.2 | 98.3 | 97.2 | 100.3 | 103.3 | 133.1 | 114.7 | 75.6 | 90.0 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:23:52 | 0:16:01 | 7.4 | 7.3 | 30.0 | 24.9 | 57.7 | 98.2 | 97.8 | 98.4 | 98.4 | 98.0 | 98.2 | 97.0 | 99.4 | 100.7 | 133.1 | 114.5 | 75.7 | 90.0 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:25:52 | 0:18:01 | 4.9 | 4.8 | 30.0 | 24.0 | 55.9 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.0 | 96.9 | 101.4 | 108.6 | 132.9 | 114.4 | 75.6 | 89.8 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:27:52 | 0:20:01 | 3.1 | 3.1 | 30.0 | 23.6 | 54.8 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.1 | 96.8 | 101.2 | 106.1 | 132.9 | 114.3 | 75.7 | 89.3 | 107.4 | 669.6 | 358.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000165

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:29:52 | 0:22:01 | 2.2 | 2.1 | 30.0 | 23.1 | 53.6 | 98.2 | 97.7 | 98.6 | 98.2 | 97.9 | 98.4 | 96.8 | 99.9 | 102.1 | 132.6 | 114.1 | 75.7 | 88.4 | 107.4 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:2/7) SUMMARY 03/11/2015 01:12:21

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:30:21 | 0:22:29 | 2.0 | 2.0 | 30.0 | 23.6 | 54.6 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.3 | 96.8 | 99.6 | 103.2 | 132.6 | 114.1 | 75.7 | 88.2 | 107.4 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.1 MAX PRESS: 0029.2 MAX TEMP: 100.3 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.7 MAX GAS TEMP: 075.8
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.4 MIN GAS TEMP: 075.5
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.7
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.1

AIR BACKFILL(1) (Loop:3/7) 03/11/2015 01:12:21

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:30:21 | 0:00:00 | 2.0 | 2.0 | 30.0 | 23.6 | 54.6 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.3 | 96.8 | 99.6 | 103.2 | 132.6 | 114.1 | 75.7 | 88.2 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:32:21 | 0:02:00 | 4.8 | 4.8 | 30.0 | 24.5 | 55.6 | 98.9 | 98.7 | 99.3 | 98.7 | 98.8 | 99.1 | 97.3 | 101.6 | 107.6 | 132.5 | 113.9 | 75.7 | 87.1 | 107.4 | 669.6 | 358.7 | 0.8 |
| 17:34:21 | 0:04:00 | 7.5 | 7.5 | 30.0 | 25.4 | 56.6 | 99.5 | 99.5 | 100.0 | 99.1 | 99.5 | 99.6 | 97.6 | 99.9 | 102.2 | 132.5 | 113.9 | 75.7 | 85.9 | 107.4 | 669.6 | 358.7 | 0.7 |
| 17:36:21 | 0:06:00 | 10.3 | 10.2 | 30.0 | 25.9 | 57.2 | 99.8 | 99.8 | 100.3 | 99.3 | 99.8 | 99.8 | 97.9 | 100.4 | 106.0 | 132.5 | 113.7 | 75.8 | 84.8 | 107.3 | 669.6 | 358.7 | 0.7 |
| 17:38:21 | 0:08:00 | 13.0 | 12.9 | 30.0 | 26.3 | 58.0 | 99.9 | 99.8 | 100.3 | 99.5 | 100.0 | 100.1 | 98.0 | 101.1 | 105.8 | 132.3 | 113.6 | 75.7 | 83.9 | 107.3 | 669.6 | 358.7 | 0.7 |
| 17:40:21 | 0:10:00 | 15.8 | 15.7 | 30.0 | 26.8 | 58.8 | 100.0 | 100.0 | 100.6 | 99.6 | 100.0 | 100.1 | 98.1 | 99.5 | 101.1 | 132.2 | 113.4 | 75.7 | 83.0 | 107.2 | 669.6 | 358.7 | 0.7 |
| 17:42:21 | 0:12:00 | 18.5 | 18.4 | 30.0 | 27.2 | 59.7 | 100.0 | 100.0 | 100.6 | 99.6 | 100.1 | 100.1 | 98.2 | 101.6 | 109.0 | 132.1 | 113.3 | 75.7 | 82.2 | 107.1 | 669.6 | 358.8 | 0.7 |
| 17:44:21 | 0:14:01 | 21.1 | 21.1 | 30.0 | 27.7 | 60.6 | 100.1 | 100.1 | 100.7 | 99.7 | 100.2 | 100.2 | 98.3 | 100.8 | 104.7 | 132.0 | 113.2 | 75.7 | 81.5 | 107.1 | 669.6 | 358.7 | 0.8 |
| 17:46:22 | 0:16:01 | 23.9 | 23.8 | 30.0 | 28.1 | 61.5 | 100.2 | 100.1 | 100.7 | 99.8 | 100.2 | 100.3 | 98.4 | 99.3 | 100.4 | 131.8 | 113.1 | 75.7 | 81.0 | 107.1 | 669.6 | 358.7 | 0.7 |
| 17:48:22 | 0:18:01 | 26.6 | 26.5 | 30.0 | 28.1 | 61.4 | 100.3 | 100.2 | 100.8 | 99.9 | 100.3 | 100.4 | 98.6 | 101.9 | 108.7 | 131.7 | 112.9 | 75.7 | 80.5 | 107.0 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(1) (Loop:3/7) SUMMARY 03/11/2015 01:32:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:50:13 | 0:19:52 | 29.1 | 29.0 | 30.0 | 28.6 | 62.3 | 100.3 | 100.2 | 100.8 | 100.0 | 100.4 | 100.4 | 98.7 | 100.8 | 104.5 | 131.6 | 112.8 | 75.6 | 80.0 | 106.9 | 669.6 | 358.7 | 0.8 |

START PRESS: 0002.0 MAX PRESS: 0029.1 MAX TEMP: 100.5 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 132.6 MAX GAS TEMP: 075.8
END PRESS: 0029.1 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 131.5 MIN GAS TEMP: 075.6
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.1
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 112.8

POST EVACUATION(2) (Loop:3/7) 03/11/2015 01:32:13

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 17:50:13 | 0:00:00 | 29.1 | 29.0 | 30.0 | 28.6 | 62.3 | 100.3 | 100.2 | 100.8 | 100.0 | 100.4 | 100.4 | 98.7 | 100.8 | 104.5 | 131.6 | 112.8 | 75.6 | 80.0 | 106.9 | 669.6 | 358.7 | 0.8 |
| 17:52:13 | 0:02:00 | 26.1 | 26.0 | 30.0 | 28.1 | 62.9 | 99.4 | 99.1 | 99.7 | 99.5 | 99.4 | 99.3 | 98.2 | 99.6 | 101.2 | 131.5 | 117.9 | 75.5 | 85.1 | 107.6 | 669.6 | 358.7 | 0.7 |
| 17:54:13 | 0:04:00 | 23.5 | 23.4 | 30.0 | 27.2 | 61.3 | 99.2 | 98.8 | 99.4 | 99.3 | 99.0 | 99.1 | 97.9 | 100.3 | 105.7 | 131.4 | 117.9 | 75.5 | 87.1 | 107.6 | 669.6 | 358.7 | 0.6 |
| 17:56:13 | 0:06:00 | 20.8 | 20.7 | 30.0 | 27.2 | 61.5 | 99.0 | 98.7 | 99.3 | 99.2 | 98.9 | 98.9 | 97.8 | 101.7 | 107.6 | 131.4 | 117.8 | 75.6 | 88.3 | 107.7 | 669.6 | 358.7 | 0.7 |
| 17:58:14 | 0:08:00 | 18.1 | 18.0 | 30.0 | 26.8 | 60.7 | 98.9 | 98.6 | 99.1 | 99.1 | 98.7 | 98.8 | 97.7 | 100.3 | 103.3 | 131.2 | 117.6 | 75.5 | 88.9 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:00:14 | 0:10:00 | 15.4 | 15.3 | 30.0 | 25.9 | 58.8 | 98.8 | 98.4 | 99.1 | 98.9 | 98.5 | 98.7 | 97.6 | 99.4 | 100.6 | 131.0 | 117.4 | 75.4 | 89.3 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:02:14 | 0:12:00 | 12.7 | 12.6 | 30.0 | 25.9 | 59.2 | 98.6 | 98.2 | 98.8 | 98.8 | 98.4 | 98.5 | 97.4 | 101.7 | 109.0 | 131.0 | 117.3 | 75.4 | 89.5 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:04:14 | 0:14:01 | 10.1 | 10.0 | 30.0 | 25.0 | 57.3 | 98.4 | 98.1 | 98.6 | 98.6 | 98.2 | 98.4 | 97.3 | 101.2 | 106.3 | 130.8 | 117.1 | 75.4 | 89.6 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:06:14 | 0:16:01 | 7.4 | 7.3 | 30.0 | 24.5 | 56.7 | 98.2 | 97.8 | 98.4 | 98.5 | 98.0 | 98.2 | 97.1 | 100.1 | 102.7 | 130.8 | 116.9 | 75.3 | 89.6 | 107.7 | 669.6 | 358.7 | 0.6 |
| 18:08:14 | 0:18:01 | 4.9 | 4.8 | 30.0 | 23.6 | 54.9 | 98.0 | 97.6 | 98.3 | 98.2 | 97.8 | 98.1 | 96.9 | 99.4 | 102.4 | 130.7 | 116.8 | 75.3 | 89.4 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:10:14 | 0:20:01 | 3.1 | 3.1 | 30.0 | 23.1 | 53.7 | 98.1 | 97.6 | 98.4 | 98.2 | 97.7 | 98.2 | 96.8 | 101.9 | 108.7 | 130.5 | 116.6 | 75.3 | 88.8 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:12:14 | 0:22:01 | 2.1 | 2.1 | 29.9 | 22.7 | 52.6 | 98.1 | 97.6 | 98.6 | 98.2 | 97.7 | 98.3 | 96.8 | 100.6 | 104.1 | 130.4 | 116.5 | 75.3 | 87.9 | 107.7 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:3/7) SUMMARY 03/11/2015 01:54:37

| CYCLE TIME | PHASE TIME | PX-1 PRESS | PX-2 PRESS | PX-4 PRESS | CH HUMID | CALC. HUMID | AVG. TEMP | CH1 TEMP | CH2 TEMP | CH3 TEMP | CH1A TEMP | CH2A TEMP | CH3A TEMP | JR TEMP | JS TEMP | PRHTR TEMP | VAP TEMP | GAS TEMP | MNFLD TEMP | MNTR TEMP | EO DRM1 | EO DRM2 | GAS CONC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000166

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| hh:mm:ss | hh:mm:ss | (''HgA) | (''HgA) | (''HgA) | (mg/l) | (%RH) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (Lbs.) | (Lbs.) | (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:12:37 | 0:22:24 | 2.0 | 2.0 | 29.9 | 22.7 | 52.5 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.4 | 96.8 | 99.6 | 101.3 | 130.4 | 116.5 | 75.3 | 87.7 | 107.7 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.1 MAX PRESS: 0029.2 MAX TEMP: 100.4 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 131.6 MAX GAS TEMP: 075.7
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.7 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.3 MIN GAS TEMP: 075.2
PRESS CHANGE: 027.1 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 118.0
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 112.8

AIR BACKFILL(1) (Loop:4/7) 03/11/2015 01:54:37

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:12:37 | 0:00:00 | 2.0 | 2.0 | 29.9 | 22.7 | 52.5 | 98.2 | 97.7 | 98.6 | 98.2 | 97.8 | 98.4 | 96.8 | 99.6 | 101.3 | 130.4 | 116.5 | 75.3 | 87.7 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:14:37 | 0:02:00 | 4.8 | 4.8 | 29.9 | 24.0 | 54.5 | 98.9 | 98.7 | 99.4 | 98.7 | 98.8 | 99.2 | 97.3 | 101.6 | 109.2 | 130.3 | 116.3 | 75.2 | 86.6 | 107.7 | 669.6 | 358.7 | 0.8 |
| 18:16:37 | 0:04:00 | 7.5 | 7.5 | 29.9 | 24.9 | 55.7 | 99.5 | 99.4 | 100.0 | 99.1 | 99.5 | 99.7 | 97.6 | 100.8 | 104.8 | 130.2 | 116.1 | 75.2 | 85.3 | 107.6 | 669.6 | 358.7 | 0.7 |
| 18:18:37 | 0:06:00 | 10.3 | 10.2 | 29.9 | 25.4 | 56.2 | 99.8 | 99.8 | 100.3 | 99.3 | 99.8 | 99.9 | 97.8 | 99.3 | 100.9 | 130.1 | 116.0 | 75.2 | 84.1 | 107.6 | 669.6 | 358.7 | 0.7 |
| 18:20:37 | 0:08:00 | 13.0 | 12.9 | 29.9 | 25.9 | 57.0 | 99.9 | 99.9 | 100.5 | 99.4 | 100.0 | 100.1 | 98.0 | 101.8 | 108.3 | 130.1 | 115.8 | 75.2 | 83.1 | 107.6 | 669.6 | 358.8 | 0.7 |
| 18:22:37 | 0:10:00 | 15.7 | 15.6 | 29.9 | 26.3 | 57.8 | 100.0 | 100.0 | 100.6 | 99.5 | 100.1 | 100.2 | 98.1 | 99.9 | 102.2 | 130.0 | 115.7 | 75.2 | 82.2 | 107.6 | 669.6 | 358.8 | 0.7 |
| 18:24:37 | 0:12:00 | 18.4 | 18.3 | 29.9 | 26.8 | 58.7 | 100.0 | 100.0 | 100.6 | 99.6 | 100.2 | 100.2 | 98.3 | 100.9 | 107.6 | 129.9 | 115.6 | 75.2 | 81.5 | 107.5 | 669.6 | 358.7 | 0.7 |
| 18:26:38 | 0:14:01 | 21.2 | 21.1 | 29.9 | 27.2 | 59.6 | 100.1 | 100.1 | 100.7 | 99.7 | 100.2 | 100.3 | 98.4 | 100.9 | 105.2 | 129.7 | 115.4 | 75.2 | 80.9 | 107.4 | 669.6 | 358.7 | 0.7 |
| 18:28:38 | 0:16:01 | 23.8 | 23.7 | 29.9 | 27.2 | 59.3 | 100.3 | 100.2 | 100.8 | 99.9 | 100.2 | 100.3 | 98.4 | 99.3 | 100.6 | 129.7 | 115.2 | 75.1 | 80.3 | 107.4 | 669.6 | 358.7 | 0.7 |
| 18:30:38 | 0:18:01 | 26.6 | 26.5 | 29.9 | 27.7 | 60.3 | 100.3 | 100.2 | 100.8 | 100.0 | 100.3 | 100.4 | 98.6 | 102.0 | 109.0 | 129.6 | 115.1 | 75.2 | 80.0 | 107.4 | 669.6 | 358.8 | 0.7 |

AIR BACKFILL(1) (Loop:4/7) SUMMARY 03/11/2015 02:14:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:32:30 | 0:19:53 | 29.0 | 28.9 | 29.9 | 28.1 | 61.1 | 100.4 | 100.3 | 100.9 | 100.1 | 100.4 | 100.5 | 98.7 | 100.7 | 104.5 | 129.4 | 115.0 | 75.2 | 79.6 | 107.4 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.0 MAX TEMP: 100.5 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 130.4 MAX GAS TEMP: 075.4
END PRESS: 0029.0 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 129.3 MIN GAS TEMP: 075.1
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.5
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 115.0

POST EVACUATION(2) (Loop:4/7) 03/11/2015 02:14:30

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:32:30 | 0:00:00 | 29.0 | 28.9 | 29.9 | 28.1 | 61.1 | 100.4 | 100.3 | 100.9 | 100.1 | 100.4 | 100.5 | 98.7 | 100.7 | 104.5 | 129.4 | 115.0 | 75.2 | 79.6 | 107.4 | 669.6 | 358.7 | 0.7 |
| 18:34:30 | 0:02:00 | 26.1 | 26.0 | 29.9 | 27.2 | 60.7 | 99.5 | 99.2 | 99.8 | 99.5 | 99.4 | 99.4 | 98.2 | 99.6 | 101.3 | 129.2 | 114.8 | 75.1 | 85.1 | 107.3 | 669.6 | 358.7 | 0.6 |
| 18:36:30 | 0:04:00 | 23.5 | 23.4 | 29.9 | 26.8 | 60.2 | 99.2 | 98.9 | 99.4 | 99.3 | 99.1 | 99.2 | 98.0 | 100.0 | 104.8 | 129.2 | 114.7 | 75.1 | 87.3 | 107.3 | 669.6 | 358.7 | 0.7 |
| 18:38:30 | 0:06:00 | 20.8 | 20.7 | 29.9 | 26.3 | 59.4 | 99.1 | 98.8 | 99.3 | 99.2 | 98.9 | 99.0 | 97.9 | 101.9 | 108.5 | 129.1 | 114.7 | 75.2 | 88.5 | 107.3 | 669.6 | 358.7 | 0.7 |
| 18:40:30 | 0:08:00 | 18.1 | 18.0 | 29.9 | 25.9 | 58.5 | 99.0 | 98.6 | 99.3 | 99.1 | 98.8 | 98.9 | 97.8 | 100.7 | 104.4 | 131.1 | 114.5 | 75.2 | 89.2 | 107.3 | 669.6 | 358.7 | 0.7 |
| 18:42:31 | 0:10:00 | 15.4 | 15.3 | 29.9 | 25.7 | 58.3 | 98.9 | 98.5 | 99.1 | 99.0 | 98.5 | 98.7 | 97.6 | 99.7 | 101.3 | 133.3 | 114.3 | 75.2 | 89.7 | 107.3 | 669.6 | 358.7 | 0.7 |
| 18:44:31 | 0:12:00 | 12.7 | 12.7 | 29.9 | 25.0 | 56.9 | 98.7 | 98.3 | 98.9 | 98.9 | 98.5 | 98.7 | 97.5 | 100.1 | 104.9 | 133.1 | 114.2 | 75.3 | 89.9 | 107.2 | 669.6 | 358.7 | 0.7 |
| 18:46:31 | 0:14:01 | 10.0 | 9.9 | 29.9 | 24.5 | 56.1 | 98.5 | 98.2 | 98.7 | 98.7 | 98.3 | 98.4 | 97.3 | 101.8 | 107.8 | 133.2 | 114.1 | 75.3 | 90.0 | 107.3 | 669.6 | 358.7 | 0.7 |
| 18:48:31 | 0:16:01 | 7.3 | 7.3 | 29.9 | 23.6 | 54.3 | 98.4 | 98.0 | 98.6 | 98.5 | 98.1 | 98.3 | 97.1 | 100.5 | 103.6 | 133.1 | 117.4 | 75.3 | 89.9 | 107.7 | 669.6 | 358.7 | 0.7 |
| 18:50:31 | 0:18:01 | 4.8 | 4.8 | 29.9 | 23.1 | 53.6 | 98.1 | 97.7 | 98.4 | 98.3 | 97.9 | 98.1 | 97.0 | 99.6 | 101.0 | 133.0 | 117.5 | 75.4 | 89.8 | 107.8 | 669.6 | 358.7 | 0.7 |
| 18:52:31 | 0:20:01 | 3.1 | 3.0 | 29.9 | 22.7 | 52.5 | 98.2 | 97.7 | 98.6 | 98.3 | 97.8 | 98.2 | 96.9 | 100.2 | 105.2 | 133.0 | 117.3 | 75.4 | 89.2 | 107.8 | 669.6 | 358.7 | 0.7 |
| 18:54:31 | 0:22:01 | 2.1 | 2.1 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 97.9 | 98.4 | 96.9 | 101.7 | 107.5 | 132.9 | 117.2 | 75.4 | 88.3 | 107.8 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:4/7) SUMMARY 03/11/2015 02:36:49

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:54:49 | 0:22:19 | 2.0 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 97.9 | 98.5 | 96.9 | 100.5 | 104.3 | 132.8 | 117.1 | 75.4 | 88.2 | 107.8 | 669.6 | 358.7 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000167

START PRESS: 0029.0 MAX PRESS: 0029.2 MAX TEMP: 100.5 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.4 MAX GAS TEMP: 075.4
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.8 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.1
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.5
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

AIR BACKFILL(1) (Loop:5/7) 03/11/2015 02:36:49

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 18:54:49 | 0:00:00 | 2.0 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 97.9 | 98.5 | 96.9 | 100.5 | 104.3 | 132.8 | 117.1 | 75.4 | 88.2 | 107.8 | 669.6 | 358.7 | 0.7 |
| 18:56:49 | 0:02:00 | 4.8 | 4.7 | 29.9 | 23.6 | 53.2 | 99.1 | 98.8 | 99.6 | 98.9 | 98.9 | 99.3 | 97.4 | 99.3 | 100.8 | 132.8 | 117.0 | 75.4 | 87.1 | 107.9 | 669.6 | 358.7 | 0.7 |
| 18:58:50 | 0:04:00 | 7.6 | 7.5 | 29.9 | 24.0 | 53.4 | 99.7 | 99.6 | 100.2 | 99.3 | 99.6 | 99.7 | 97.8 | 101.9 | 108.8 | 132.6 | 116.9 | 75.5 | 85.9 | 107.9 | 669.6 | 358.7 | 0.7 |
| 19:00:50 | 0:06:00 | 10.3 | 10.3 | 29.9 | 25.0 | 54.9 | 100.0 | 99.9 | 100.5 | 99.6 | 99.9 | 100.1 | 98.1 | 100.3 | 103.3 | 132.5 | 116.7 | 75.5 | 84.7 | 107.9 | 669.6 | 358.7 | 0.7 |
| 19:02:50 | 0:08:00 | 13.0 | 12.9 | 29.9 | 25.4 | 55.7 | 100.1 | 100.0 | 100.6 | 99.7 | 100.1 | 100.2 | 98.3 | 99.3 | 101.8 | 132.4 | 116.5 | 75.5 | 83.8 | 107.9 | 669.6 | 358.7 | 0.7 |
| 19:04:50 | 0:10:00 | 15.7 | 15.6 | 29.9 | 25.9 | 56.6 | 100.1 | 100.0 | 100.7 | 99.8 | 100.2 | 100.2 | 98.3 | 101.8 | 108.0 | 132.3 | 116.4 | 75.5 | 83.0 | 107.9 | 669.6 | 358.7 | 0.7 |
| 19:06:50 | 0:12:00 | 18.4 | 18.3 | 29.9 | 25.9 | 56.4 | 100.2 | 100.2 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 100.0 | 102.4 | 132.2 | 116.3 | 75.5 | 82.2 | 107.9 | 669.6 | 358.7 | 0.7 |
| 19:08:50 | 0:14:01 | 21.1 | 21.0 | 29.9 | 26.3 | 57.4 | 100.3 | 100.2 | 100.9 | 99.8 | 100.3 | 100.5 | 98.4 | 100.4 | 106.2 | 132.2 | 116.1 | 75.6 | 81.6 | 107.8 | 669.6 | 358.7 | 0.7 |
| 19:10:50 | 0:16:01 | 23.8 | 23.7 | 29.9 | 26.8 | 58.3 | 100.3 | 100.3 | 100.9 | 99.9 | 100.5 | 100.5 | 98.5 | 101.1 | 105.7 | 132.1 | 116.0 | 75.5 | 81.1 | 107.8 | 669.6 | 358.7 | 0.7 |
| 19:12:50 | 0:18:01 | 26.6 | 26.5 | 29.9 | 27.2 | 59.2 | 100.4 | 100.3 | 101.0 | 99.9 | 100.5 | 100.5 | 98.6 | 99.5 | 101.0 | 131.9 | 115.9 | 75.6 | 80.6 | 107.8 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(1) (Loop:5/7) SUMMARY 03/11/2015 02:56:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:14:36 | 0:19:47 | 29.0 | 29.0 | 29.9 | 27.2 | 59.2 | 100.4 | 100.3 | 101.0 | 100.0 | 100.5 | 100.5 | 98.6 | 99.9 | 104.4 | 131.7 | 115.7 | 75.6 | 80.2 | 107.7 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.0 MAX TEMP: 100.6 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 132.9 MAX GAS TEMP: 075.6
END PRESS: 0029.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 131.7 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.2
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 115.7

POST EVACUATION(2) (Loop:5/7) 03/11/2015 02:56:36

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:14:36 | 0:00:00 | 29.0 | 29.0 | 29.9 | 27.2 | 59.2 | 100.4 | 100.3 | 101.0 | 100.0 | 100.5 | 100.5 | 98.6 | 99.9 | 104.4 | 131.7 | 115.7 | 75.6 | 80.2 | 107.7 | 669.6 | 358.7 | 0.7 |
| 19:16:36 | 0:02:00 | 26.1 | 26.0 | 29.9 | 26.8 | 59.5 | 99.6 | 99.3 | 99.8 | 99.6 | 99.5 | 99.6 | 98.3 | 102.0 | 108.8 | 131.7 | 115.5 | 75.5 | 85.2 | 107.7 | 669.6 | 358.7 | 0.7 |
| 19:18:36 | 0:04:00 | 23.5 | 23.4 | 29.9 | 25.9 | 57.8 | 99.4 | 99.1 | 99.7 | 99.4 | 99.2 | 99.2 | 98.0 | 100.8 | 104.7 | 131.5 | 115.4 | 75.5 | 87.3 | 107.7 | 669.6 | 358.7 | 0.7 |
| 19:20:37 | 0:06:00 | 20.8 | 20.7 | 29.9 | 25.9 | 58.3 | 99.1 | 98.8 | 99.4 | 99.2 | 99.0 | 99.1 | 97.9 | 99.8 | 101.6 | 131.5 | 115.3 | 75.5 | 88.4 | 107.6 | 669.6 | 358.7 | 0.7 |
| 19:22:37 | 0:08:00 | 18.1 | 18.0 | 29.9 | 25.4 | 57.5 | 99.0 | 98.7 | 99.3 | 99.1 | 98.8 | 98.9 | 97.8 | 99.5 | 102.9 | 131.5 | 115.1 | 75.4 | 89.2 | 107.6 | 669.6 | 358.7 | 0.7 |
| 19:24:37 | 0:10:00 | 15.4 | 15.3 | 29.9 | 25.0 | 56.5 | 98.9 | 98.6 | 99.1 | 99.1 | 98.7 | 98.8 | 97.7 | 102.0 | 108.7 | 131.3 | 115.0 | 75.5 | 89.6 | 107.6 | 669.6 | 358.7 | 0.8 |
| 19:26:37 | 0:12:00 | 12.7 | 12.6 | 29.9 | 25.0 | 56.8 | 98.8 | 98.4 | 99.1 | 98.9 | 98.5 | 98.7 | 97.5 | 100.7 | 104.5 | 131.2 | 114.8 | 75.5 | 89.8 | 107.6 | 669.6 | 358.7 | 0.7 |
| 19:28:37 | 0:14:01 | 10.0 | 9.9 | 29.9 | 24.0 | 55.0 | 98.6 | 98.2 | 98.8 | 98.7 | 98.3 | 98.5 | 97.3 | 99.7 | 101.3 | 131.1 | 114.7 | 75.5 | 89.9 | 107.5 | 669.6 | 358.7 | 0.8 |
| 19:30:37 | 0:16:01 | 7.3 | 7.3 | 29.9 | 23.6 | 54.3 | 98.4 | 98.0 | 98.6 | 98.5 | 98.2 | 98.4 | 97.2 | 100.7 | 106.8 | 131.0 | 114.6 | 75.5 | 89.9 | 107.4 | 669.6 | 358.7 | 0.7 |
| 19:32:37 | 0:18:01 | 4.8 | 4.8 | 29.9 | 23.1 | 53.5 | 98.2 | 97.8 | 98.6 | 98.4 | 97.9 | 98.2 | 97.0 | 101.7 | 107.5 | 130.9 | 114.4 | 75.4 | 89.7 | 107.5 | 669.6 | 358.7 | 0.8 |
| 19:34:37 | 0:20:01 | 3.1 | 3.0 | 29.9 | 22.2 | 51.4 | 98.2 | 97.7 | 98.6 | 98.3 | 97.9 | 98.3 | 96.9 | 100.4 | 103.6 | 130.8 | 114.3 | 75.5 | 89.2 | 107.5 | 669.6 | 358.7 | 0.7 |
| 19:36:37 | 0:22:01 | 2.1 | 2.1 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 98.0 | 98.5 | 96.9 | 99.4 | 100.6 | 130.7 | 114.2 | 75.6 | 88.3 | 107.4 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:5/7) SUMMARY 03/11/2015 03:18:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:36:54 | 0:22:17 | 2.0 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 97.9 | 98.5 | 96.9 | 100.3 | 105.8 | 130.7 | 114.1 | 75.5 | 88.2 | 107.4 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.0 MAX PRESS: 0029.1 MAX TEMP: 100.6 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 131.8 MAX GAS TEMP: 075.6
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.7 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 115.7
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.1



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000168

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

AIR BACKFILL(1) (Loop:6/7) 03/11/2015 03:18:54

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:36:54 | 0:00:00 | 2.0 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 97.9 | 98.5 | 96.9 | 100.3 | 105.8 | 130.7 | 114.1 | 75.5 | 88.2 | 107.4 | 669.6 | 358.7 | 0.7 |
| 19:38:54 | 0:02:00 | 4.8 | 4.8 | 29.9 | 23.6 | 53.3 | 99.0 | 98.8 | 99.6 | 98.8 | 98.9 | 99.3 | 97.4 | 101.2 | 106.0 | 130.5 | 114.0 | 75.5 | 87.0 | 107.3 | 669.6 | 358.8 | 0.7 |
| 19:40:54 | 0:04:00 | 7.6 | 7.6 | 29.9 | 23.6 | 52.3 | 99.6 | 99.5 | 100.2 | 99.3 | 99.6 | 99.8 | 97.8 | 99.5 | 101.1 | 130.4 | 113.8 | 75.5 | 85.7 | 107.3 | 669.6 | 358.7 | 0.7 |
| 19:42:54 | 0:06:00 | 10.2 | 10.1 | 29.9 | 24.5 | 53.9 | 100.0 | 99.9 | 100.5 | 99.6 | 99.9 | 100.1 | 98.1 | 101.7 | 109.2 | 130.4 | 113.7 | 75.6 | 84.6 | 107.3 | 669.6 | 358.7 | 0.7 |
| 19:44:54 | 0:08:00 | 12.8 | 12.8 | 29.9 | 25.0 | 54.7 | 100.1 | 100.0 | 100.7 | 99.7 | 100.2 | 100.3 | 98.3 | 100.8 | 104.8 | 130.2 | 113.6 | 75.5 | 83.6 | 107.2 | 669.6 | 358.7 | 0.7 |
| 19:46:54 | 0:10:00 | 15.6 | 15.5 | 29.9 | 25.0 | 54.5 | 100.2 | 100.1 | 100.8 | 99.8 | 100.2 | 100.3 | 98.3 | 99.3 | 100.4 | 130.1 | 113.5 | 75.6 | 82.8 | 107.2 | 669.6 | 358.7 | 0.8 |
| 19:48:54 | 0:12:00 | 18.4 | 18.4 | 29.9 | 25.4 | 55.5 | 100.2 | 100.1 | 100.8 | 99.8 | 100.3 | 100.4 | 98.5 | 101.9 | 108.9 | 130.0 | 113.3 | 75.6 | 82.1 | 107.2 | 669.6 | 358.7 | 0.7 |
| 19:50:54 | 0:14:01 | 21.2 | 21.1 | 29.9 | 25.9 | 56.2 | 100.4 | 100.3 | 101.0 | 99.9 | 100.3 | 100.4 | 98.4 | 100.2 | 103.1 | 129.9 | 113.2 | 75.5 | 81.4 | 107.1 | 669.6 | 358.7 | 0.7 |
| 19:52:54 | 0:16:01 | 23.8 | 23.7 | 29.9 | 25.9 | 56.1 | 100.4 | 100.4 | 101.0 | 100.0 | 100.4 | 100.5 | 98.6 | 99.9 | 104.3 | 129.9 | 113.1 | 75.5 | 80.9 | 107.1 | 669.6 | 358.7 | 0.7 |
| 19:54:54 | 0:18:01 | 26.6 | 26.5 | 29.9 | 26.3 | 57.1 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.6 | 98.6 | 101.6 | 107.0 | 129.7 | 113.0 | 75.5 | 80.4 | 107.0 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(1) (Loop:6/7) SUMMARY 03/11/2015 03:38:49

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:56:48 | 0:19:54 | 29.0 | 29.0 | 29.9 | 26.8 | 57.9 | 100.5 | 100.5 | 101.1 | 100.1 | 100.6 | 100.8 | 98.8 | 100.2 | 103.1 | 129.7 | 112.8 | 75.5 | 80.1 | 107.0 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.0 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 130.7 MAX GAS TEMP: 075.6
END PRESS: 0029.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 129.6 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 114.2
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 112.8

POST EVACUATION(2) (Loop:6/7) 03/11/2015 03:38:49

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 19:56:48 | 0:00:00 | 29.0 | 29.0 | 29.9 | 26.8 | 57.9 | 100.5 | 100.5 | 101.1 | 100.1 | 100.6 | 100.8 | 98.8 | 100.2 | 103.1 | 129.7 | 112.8 | 75.5 | 80.1 | 107.0 | 669.6 | 358.7 | 0.7 |
| 19:58:48 | 0:02:00 | 26.1 | 26.0 | 29.9 | 25.9 | 57.5 | 99.6 | 99.3 | 100.0 | 99.6 | 99.5 | 99.6 | 98.3 | 99.3 | 101.2 | 129.6 | 117.8 | 75.5 | 85.3 | 107.7 | 669.6 | 358.7 | 0.7 |
| 20:00:48 | 0:04:00 | 23.5 | 23.4 | 29.9 | 25.9 | 57.8 | 99.4 | 99.1 | 99.7 | 99.5 | 99.3 | 99.3 | 98.1 | 101.9 | 108.9 | 129.4 | 117.7 | 75.4 | 87.3 | 107.7 | 669.6 | 358.7 | 0.7 |
| 20:02:48 | 0:06:00 | 20.8 | 20.7 | 29.9 | 25.4 | 57.0 | 99.3 | 99.0 | 99.6 | 99.3 | 99.1 | 99.2 | 98.0 | 100.9 | 104.8 | 129.3 | 117.7 | 75.5 | 88.5 | 107.7 | 669.6 | 358.7 | 0.7 |
| 20:04:49 | 0:08:00 | 18.0 | 18.0 | 29.9 | 24.9 | 56.2 | 99.1 | 98.8 | 99.3 | 99.2 | 98.9 | 99.0 | 97.8 | 99.7 | 101.3 | 129.2 | 117.5 | 75.5 | 89.3 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:06:49 | 0:10:00 | 15.4 | 15.3 | 29.9 | 24.5 | 55.4 | 99.0 | 98.6 | 99.3 | 99.1 | 98.7 | 98.9 | 97.7 | 100.2 | 105.3 | 129.1 | 117.3 | 75.5 | 89.7 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:08:49 | 0:12:00 | 12.7 | 12.6 | 29.9 | 24.5 | 55.7 | 98.8 | 98.4 | 99.1 | 98.9 | 98.6 | 98.7 | 97.6 | 101.8 | 107.9 | 129.1 | 117.2 | 75.5 | 89.9 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:10:49 | 0:14:01 | 10.0 | 9.9 | 29.9 | 23.6 | 53.8 | 98.7 | 98.3 | 98.9 | 98.8 | 98.4 | 98.7 | 97.4 | 100.3 | 103.4 | 129.0 | 117.0 | 75.5 | 90.0 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:12:49 | 0:16:01 | 7.3 | 7.3 | 29.9 | 23.6 | 54.3 | 98.4 | 98.0 | 98.6 | 98.5 | 98.2 | 98.4 | 97.3 | 99.5 | 100.7 | 133.3 | 116.9 | 75.5 | 89.9 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:14:49 | 0:18:01 | 4.8 | 4.8 | 29.9 | 22.7 | 52.4 | 98.2 | 97.8 | 98.6 | 98.4 | 98.0 | 98.2 | 97.1 | 101.2 | 108.3 | 133.1 | 116.6 | 75.5 | 89.7 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:16:49 | 0:20:01 | 3.1 | 3.0 | 29.9 | 22.2 | 51.4 | 98.2 | 97.8 | 98.6 | 98.3 | 97.9 | 98.3 | 97.0 | 101.3 | 106.3 | 133.2 | 116.5 | 75.5 | 89.2 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:18:49 | 0:22:01 | 2.1 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.9 | 98.7 | 98.3 | 97.9 | 98.5 | 96.9 | 99.8 | 101.8 | 133.1 | 116.4 | 75.6 | 88.3 | 107.9 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:6/7) SUMMARY 03/11/2015 04:01:03

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:19:03 | 0:22:14 | 2.0 | 2.9 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 98.0 | 98.5 | 96.9 | 99.4 | 100.6 | 133.1 | 116.4 | 75.6 | 88.2 | 107.9 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.0 MAX PRESS: 0029.2 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.3 MAX GAS TEMP: 075.6
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 128.9 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.9
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 112.8

AIR BACKFILL(1) (Loop:7/7) 03/11/2015 04:01:03

| CYCLE TIME | PHASE TIME | PX-1 PRESS | PX-2 PRESS | PX-4 PRESS | CH HUMID | CALC. HUMID | AVG. TEMP | CH1 TEMP | CH2 TEMP | CH3 TEMP | CH1A TEMP | CH2A TEMP | CH3A TEMP | JR TEMP | JS TEMP | PRHTR TEMP | VAP TEMP | GAS TEMP | MNFLD TEMP | MNTR TEMP | EO DRM1 | EO DRM2 | GAS CONC |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000169

CYCLE NO: 0000000111

STERILIZER NUMBER: 0001033692

| hh:mm:ss | hh:mm:ss | (''HgA) | (''HgA) | (''HgA) | (mg/l) | (%RH) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (°F) | (Lbs.) | (Lbs.) | (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:19:03 | 0:00:00 | 2.0 | 2.0 | 29.9 | 22.2 | 51.3 | 98.3 | 97.8 | 98.7 | 98.3 | 98.0 | 98.5 | 96.9 | 99.4 | 100.6 | 133.1 | 116.4 | 75.6 | 88.2 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:21:03 | 0:02:00 | 4.8 | 4.8 | 29.9 | 23.1 | 52.1 | 99.1 | 98.9 | 99.7 | 98.9 | 98.9 | 99.4 | 97.4 | 102.0 | 109.2 | 133.1 | 116.2 | 75.6 | 87.1 | 107.9 | 669.6 | 358.7 | 0.8 |
| 20:23:03 | 0:04:00 | 7.6 | 7.5 | 29.9 | 23.6 | 52.2 | 99.7 | 99.6 | 100.3 | 99.4 | 99.7 | 99.9 | 97.9 | 100.3 | 103.3 | 132.9 | 116.1 | 75.6 | 85.8 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:25:03 | 0:06:00 | 10.3 | 10.2 | 29.9 | 24.0 | 52.8 | 100.0 | 99.9 | 100.5 | 99.7 | 100.0 | 100.1 | 98.1 | 99.5 | 103.1 | 132.9 | 115.9 | 75.6 | 84.7 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:27:03 | 0:08:00 | 13.0 | 12.9 | 29.9 | 24.5 | 53.6 | 100.2 | 100.1 | 100.7 | 99.8 | 100.2 | 100.3 | 98.3 | 101.7 | 107.7 | 132.6 | 115.8 | 75.6 | 83.6 | 107.7 | 669.6 | 358.7 | 0.7 |
| 20:29:03 | 0:10:00 | 15.8 | 15.7 | 29.9 | 24.5 | 53.5 | 100.2 | 100.2 | 100.8 | 99.8 | 100.3 | 100.4 | 98.4 | 99.9 | 102.2 | 132.6 | 115.6 | 75.6 | 82.8 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:31:03 | 0:12:00 | 18.5 | 18.4 | 29.9 | 24.9 | 54.3 | 100.3 | 100.3 | 100.9 | 99.9 | 100.4 | 100.5 | 98.5 | 100.3 | 105.8 | 132.6 | 115.5 | 75.6 | 82.1 | 107.7 | 669.6 | 358.7 | 0.7 |
| 20:33:03 | 0:14:01 | 21.1 | 21.0 | 29.9 | 25.4 | 55.2 | 100.4 | 100.4 | 101.0 | 99.9 | 100.4 | 100.5 | 98.5 | 101.5 | 106.7 | 132.5 | 115.4 | 75.6 | 81.4 | 107.7 | 669.6 | 358.7 | 0.8 |
| 20:35:03 | 0:16:01 | 23.8 | 23.7 | 29.9 | 25.9 | 56.1 | 100.5 | 100.4 | 101.1 | 100.0 | 100.5 | 100.6 | 98.6 | 99.9 | 101.8 | 132.3 | 115.3 | 75.6 | 80.8 | 107.6 | 669.6 | 358.8 | 0.7 |
| 20:37:04 | 0:18:01 | 26.5 | 26.4 | 29.9 | 25.9 | 56.0 | 100.5 | 100.5 | 101.1 | 100.1 | 100.6 | 100.8 | 98.7 | 100.7 | 106.8 | 132.2 | 115.1 | 75.5 | 80.3 | 107.5 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(1) (Loop:7/7) SUMMARY 03/11/2015 04:20:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:38:51 | 0:19:48 | 29.0 | 28.9 | 29.9 | 25.9 | 55.9 | 100.6 | 100.5 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 101.9 | 108.5 | 132.0 | 115.0 | 75.5 | 79.9 | 107.5 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.0 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 133.2 MAX GAS TEMP: 075.6
END PRESS: 0029.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 132.0 MIN GAS TEMP: 075.4
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 116.4
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.9

POST EVACUATION(2) (Loop:7/7) 03/11/2015 04:20:51

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 20:38:51 | 0:00:00 | 29.0 | 28.9 | 29.9 | 25.9 | 55.9 | 100.6 | 100.5 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 101.9 | 108.5 | 132.0 | 115.0 | 75.5 | 79.9 | 107.5 | 669.6 | 358.7 | 0.7 |
| 20:40:51 | 0:02:00 | 26.1 | 26.0 | 29.9 | 25.4 | 56.3 | 99.7 | 99.4 | 100.0 | 99.7 | 99.7 | 99.7 | 98.4 | 100.7 | 104.5 | 132.0 | 114.8 | 75.4 | 85.2 | 107.5 | 669.6 | 358.7 | 0.7 |
| 20:42:51 | 0:04:00 | 23.4 | 23.3 | 29.9 | 25.0 | 55.6 | 99.5 | 99.2 | 99.8 | 99.6 | 99.3 | 99.4 | 98.2 | 99.8 | 101.6 | 132.0 | 114.7 | 75.4 | 87.2 | 107.4 | 669.6 | 358.7 | 0.7 |
| 20:44:51 | 0:06:00 | 20.7 | 20.6 | 29.9 | 25.0 | 55.9 | 99.3 | 99.0 | 99.6 | 99.4 | 99.1 | 99.2 | 98.1 | 99.7 | 103.8 | 131.8 | 114.5 | 75.4 | 88.4 | 107.4 | 669.6 | 358.7 | 0.7 |
| 20:46:52 | 0:08:00 | 18.1 | 18.0 | 29.9 | 25.0 | 56.1 | 99.2 | 98.8 | 99.4 | 99.3 | 98.9 | 99.0 | 97.9 | 101.9 | 108.3 | 131.7 | 114.4 | 75.4 | 89.1 | 107.3 | 669.6 | 358.7 | 0.7 |
| 20:48:52 | 0:10:00 | 15.4 | 15.3 | 29.9 | 24.0 | 54.3 | 99.0 | 98.7 | 99.3 | 99.2 | 98.8 | 98.9 | 97.8 | 100.6 | 104.3 | 131.6 | 114.2 | 75.4 | 89.6 | 107.4 | 669.6 | 358.7 | 0.7 |
| 20:50:52 | 0:12:00 | 12.7 | 12.6 | 29.9 | 23.6 | 53.5 | 98.9 | 98.5 | 99.1 | 99.0 | 98.6 | 98.7 | 97.6 | 99.6 | 101.2 | 131.6 | 114.1 | 75.4 | 89.8 | 107.3 | 669.6 | 358.7 | 0.7 |
| 20:52:52 | 0:14:01 | 10.0 | 9.9 | 29.9 | 23.6 | 53.8 | 98.7 | 98.3 | 98.9 | 98.9 | 98.5 | 98.7 | 97.5 | 100.8 | 107.4 | 131.5 | 117.4 | 75.4 | 89.9 | 108.0 | 669.6 | 358.7 | 0.7 |
| 20:54:52 | 0:16:01 | 7.3 | 7.3 | 29.9 | 23.1 | 53.1 | 98.5 | 98.1 | 98.7 | 98.7 | 98.3 | 98.5 | 97.3 | 101.5 | 106.9 | 131.3 | 117.5 | 75.4 | 89.8 | 107.8 | 669.6 | 358.7 | 0.7 |
| 20:56:52 | 0:18:01 | 4.8 | 4.8 | 29.9 | 22.2 | 51.2 | 98.3 | 97.9 | 98.6 | 98.5 | 98.0 | 98.4 | 97.1 | 100.2 | 103.1 | 131.3 | 117.4 | 75.4 | 89.6 | 107.9 | 669.6 | 358.7 | 0.7 |
| 20:58:52 | 0:20:01 | 3.1 | 3.0 | 29.9 | 22.2 | 51.2 | 98.3 | 97.9 | 98.7 | 98.4 | 98.0 | 98.4 | 97.0 | 99.3 | 100.6 | 131.1 | 117.2 | 75.4 | 89.1 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:00:52 | 0:22:01 | 2.1 | 2.0 | 29.9 | 22.2 | 51.2 | 98.4 | 97.9 | 98.8 | 98.4 | 97.9 | 98.5 | 96.9 | 101.7 | 109.0 | 131.0 | 117.0 | 75.4 | 88.1 | 107.8 | 669.6 | 358.7 | 0.7 |

POST EVACUATION(2) (Loop:7/7) SUMMARY 03/11/2015 04:43:05

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:01:06 | 0:02:14 | 2.0 | 2.0 | 29.9 | 21.8 | 50.1 | 98.4 | 97.9 | 98.9 | 98.4 | 98.0 | 98.7 | 97.0 | 101.8 | 107.8 | 130.9 | 117.1 | 75.4 | 88.0 | 107.9 | 669.6 | 358.7 | 0.7 |

START PRESS: 0029.0 MAX PRESS: 0029.1 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 132.1 MAX GAS TEMP: 075.6
END PRESS: 0002.0 MIN PRESS: 0002.0 MIN TEMP: 096.9 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.9 MIN GAS TEMP: 075.3
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.6
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 114.0

AIR BACKFILL(2) 03/11/2015 04:43:05

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS (''HgA) | PX-2 PRESS (''HgA) | PX-4 PRESS (''HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:01:06 | 0:00:00 | 2.0 | 2.0 | 29.9 | 21.8 | 50.1 | 98.4 | 97.9 | 98.9 | 98.4 | 98.0 | 98.7 | 97.0 | 101.8 | 107.8 | 130.9 | 117.1 | 75.4 | 88.0 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:02:06 | 0:01:00 | 3.3 | 3.3 | 29.9 | 22.2 | 50.5 | 98.8 | 98.4 | 99.3 | 98.7 | 98.4 | 99.0 | 97.2 | 99.8 | 104.1 | 130.9 | 117.0 | 75.4 | 87.5 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:03:06 | 0:02:00 | 4.8 | 4.7 | 29.9 | 22.7 | 50.9 | 99.2 | 99.0 | 99.8 | 99.0 | 99.0 | 99.4 | 97.6 | 100.0 | 102.4 | 131.0 | 117.0 | 75.4 | 86.8 | 107.9 | 669.6 | 358.8 | 0.7 |



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000170

| | | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:04:06 | 0:03:00 | 6.2 | 6.1 | 29.9 | 23.1 | 51.6 | 99.5 | 99.3 | 100.1 | 99.2 | 99.4 | 99.7 | 97.8 | 101.6 | 107.3 | 130.8 | 116.8 | 75.4 | 86.2 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:05:06 | 0:04:00 | 7.5 | 7.4 | 29.9 | 23.6 | 52.1 | 99.8 | 99.7 | 100.3 | 99.5 | 99.7 | 99.9 | 98.0 | 100.3 | 106.0 | 130.9 | 116.7 | 75.4 | 85.6 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:06:06 | 0:05:00 | 9.0 | 8.9 | 29.9 | 23.6 | 51.9 | 99.9 | 99.8 | 100.5 | 99.6 | 99.9 | 100.1 | 98.1 | 99.7 | 101.7 | 130.8 | 116.6 | 75.4 | 85.0 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:07:06 | 0:06:00 | 10.2 | 10.1 | 29.9 | 23.6 | 51.7 | 100.1 | 100.0 | 100.7 | 99.7 | 100.1 | 100.2 | 98.2 | 101.2 | 106.0 | 130.7 | 116.6 | 75.4 | 84.4 | 107.8 | 669.6 | 358.8 | 0.7 |
| 21:08:06 | 0:07:01 | 11.7 | 11.6 | 29.9 | 24.0 | 52.6 | 100.2 | 100.1 | 100.7 | 99.8 | 100.2 | 100.3 | 98.4 | 101.2 | 108.2 | 130.6 | 116.6 | 75.4 | 83.9 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:09:06 | 0:08:01 | 12.9 | 12.8 | 29.9 | 24.0 | 52.4 | 100.3 | 100.2 | 100.8 | 99.9 | 100.3 | 100.4 | 98.4 | 99.5 | 101.1 | 130.5 | 116.5 | 75.4 | 83.4 | 107.9 | 669.6 | 358.7 | 0.7 |
| 21:10:06 | 0:09:01 | 14.4 | 14.3 | 29.9 | 24.5 | 53.4 | 100.3 | 100.2 | 100.9 | 99.9 | 100.3 | 100.4 | 98.5 | 101.0 | 105.3 | 130.6 | 116.4 | 75.4 | 83.0 | 107.9 | 669.6 | 358.8 | 0.7 |
| 21:11:07 | 0:10:01 | 15.6 | 15.5 | 29.9 | 24.9 | 54.3 | 100.3 | 100.2 | 100.9 | 99.9 | 100.3 | 100.5 | 98.5 | 101.5 | 109.0 | 130.4 | 116.3 | 75.4 | 82.5 | 107.8 | 669.6 | 358.7 | 0.7 |
| 21:12:07 | 0:11:01 | 17.1 | 17.0 | 29.9 | 25.0 | 54.3 | 100.3 | 100.3 | 100.9 | 99.9 | 100.4 | 100.5 | 98.5 | 99.5 | 100.9 | 130.5 | 116.3 | 75.4 | 82.2 | 107.8 | 669.6 | 358.7 | 0.7 |
| 21:13:07 | 0:12:01 | 18.3 | 18.2 | 29.9 | 25.0 | 54.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.6 | 98.6 | 100.8 | 104.8 | 130.3 | 116.1 | 75.4 | 81.8 | 107.8 | 669.6 | 358.7 | 0.7 |
| 21:14:07 | 0:13:01 | 19.9 | 19.8 | 29.9 | 25.0 | 54.2 | 100.4 | 100.4 | 101.0 | 100.0 | 100.5 | 100.6 | 98.6 | 101.7 | 109.1 | 130.2 | 116.1 | 75.4 | 81.5 | 107.8 | 669.6 | 358.7 | 0.7 |
| 21:15:07 | 0:14:01 | 21.1 | 21.0 | 29.9 | 24.9 | 54.1 | 100.5 | 100.4 | 101.1 | 100.0 | 100.5 | 100.6 | 98.6 | 99.4 | 100.8 | 130.2 | 116.0 | 75.4 | 81.2 | 107.7 | 669.6 | 358.7 | 0.6 |
| 21:16:07 | 0:15:01 | 22.6 | 22.5 | 29.9 | 25.4 | 55.1 | 100.5 | 100.4 | 101.1 | 100.0 | 100.6 | 100.8 | 98.6 | 100.7 | 104.5 | 130.3 | 115.9 | 75.4 | 80.9 | 107.8 | 669.6 | 358.7 | 0.7 |
| 21:17:07 | 0:16:01 | 23.9 | 23.8 | 29.9 | 25.8 | 56.0 | 100.5 | 100.4 | 101.1 | 100.0 | 100.6 | 100.8 | 98.7 | 101.8 | 109.4 | 130.1 | 115.9 | 75.4 | 80.6 | 107.7 | 669.6 | 358.7 | 0.7 |
| 21:18:07 | 0:17:02 | 25.2 | 25.1 | 29.9 | 25.4 | 54.9 | 100.6 | 100.5 | 101.2 | 100.1 | 100.7 | 100.8 | 98.8 | 99.5 | 100.9 | 130.1 | 115.8 | 75.4 | 80.4 | 107.7 | 669.6 | 358.7 | 0.7 |
| 21:19:07 | 0:18:02 | 26.7 | 26.6 | 29.9 | 25.9 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.6 | 100.8 | 98.8 | 100.8 | 104.7 | 130.0 | 115.7 | 75.4 | 80.2 | 107.7 | 669.6 | 358.7 | 0.8 |
| 21:20:07 | 0:19:02 | 27.9 | 27.8 | 29.9 | 25.8 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 102.0 | 109.0 | 130.0 | 115.7 | 75.4 | 80.0 | 107.7 | 669.6 | 358.7 | 0.7 |

AIR BACKFILL(2) SUMMARY 03/11/2015 05:02:52

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:20:52 | 0:19:45 | 29.0 | 28.9 | 29.9 | 25.9 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 99.9 | 101.8 | 130.0 | 115.6 | 75.4 | 79.8 | 107.7 | 669.6 | 358.7 | 0.7 |

START PRESS: 0002.0 MAX PRESS: 0029.0 MAX TEMP: 100.8 DRM1 START: 669.6 DRM2 START: 358.7 MAX PRE TEMP: 131.0 MAX GAS TEMP: 075.5
END PRESS: 0029.0 MIN PRESS: 0002.0 MIN TEMP: 097.0 DRM1 END: 669.6 DRM2 END: 358.7 MIN PRE TEMP: 130.0 MIN GAS TEMP: 075.3
PRESS CHANGE: 027.0 ETO USED 1: 000.0 ETO USED 2: 000.0 MAX VAP TEMP: 117.1
EO USED PHASE: 000.0 EO USED CYCLE:028.5 MIN VAP TEMP: 115.6

END OF CYCLE 03/11/2015 05:02:52

| CYCLE TIME hh:mm:ss | PHASE TIME hh:mm:ss | PX-1 PRESS ("HgA) | PX-2 PRESS ("HgA) | PX-4 PRESS ("HgA) | CH HUMID (mg/l) | CALC. HUMID (%RH) | AVG. TEMP (°F) | CH1 TEMP (°F) | CH2 TEMP (°F) | CH3 TEMP (°F) | CH1A TEMP (°F) | CH2A TEMP (°F) | CH3A TEMP (°F) | JR TEMP (°F) | JS TEMP (°F) | PRHTR TEMP (°F) | VAP TEMP (°F) | GAS TEMP (°F) | MNFLD TEMP (°F) | MNTR TEMP (°F) | EO DRM1 (Lbs.) | EO DRM2 (Lbs.) | GAS CONC (mg/l) |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 21:20:52 | 0:00:00 | 29.0 | 28.9 | 29.9 | 25.9 | 55.8 | 100.6 | 100.6 | 101.2 | 100.2 | 100.7 | 100.8 | 98.8 | 99.9 | 101.8 | 130.0 | 115.6 | 75.4 | 79.8 | 107.7 | 669.6 | 358.7 | 0.7 |

COPY



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000171

# Aeration Validation

## Sample Aeration Summary Matrix

## 1X St ation
## Aeration Su..mary Matrix

| Absorbable - Polymer Secondary Product - (w/ 12Hr Primary) | | | | | | | |
|---|---|---|---|---|---|---|---|
| Sample Set | Aer. Room | Pull/Freeze Times | Cycle # | 1X: 0HR | 1X: 24HR | 1X: 48HR | 1X: 72HR |
| A | Poly 2nd | Time Pulled | 1.) ZA500129 | 03-09-15/16:45 | 03-10-15/16:45 | 03-11-15/16:45 | 03-12-15/16:45 |
| B | | Time Pulled | 1.) ZB500130 | 03-09-15/16:45 | 03-10-15/16:45 | 03-11-15/16:45 | 03-12-15/16:45 |
| C | | Time Pulled | 1.) ZA500136 | 03-11-15/18:25 | 03-12-15/18:25 | 03-13-15/18:25 | 03-14-15/18:25 |

| Absorbable - Suture Secondary Product - (w/ 12Hr Primary) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| Sample Set | Aer. Room | Pull/Freeze Times | Cycle # | 1X: 0HR | 1X: 24HR | 1X: 48HR | 1X: 72HR | 1X:72-Vac |
| A | Suture 2nd | Time Pulled | 1.) ZA500129 | 03-09-15/16:45 | 03-10-15/16:45 | 03-11-15/16:45 | 03-12-15/16:45 | 03-12-15/16:45 |
| B | | Time Pulled | 1.) ZB500130 | 03-09-15/16:45 | 03-10-15/16:45 | 03-11-15/16:45 | 03-12-15/16:45 | 03-12-15/16:45 |
| C | | Time Pulled | 1.) ZA500136 | 03-11-15/18:25 | 03-12-15/18:25 | 03-13-15/18:25 | 03-14-15/18:25 | 03-14-15/18:25 |

| Non-Absorbable - Primary Aeration Product | | | | | | |
|---|---|---|---|---|---|---|
| Sample Set | Aer. Room | Pull/Freeze Times | Cycle # | 1X: 0HR | 1X: 6HR | 1X: 12HR |
| A | Primary | Time Pulled | 1.) ZA500129 | 03-09-15/04:45 | 03-09-15/10:45 | 03-09-15/16:45 |
| B | | Time Pulled | 1.) ZB500130 | 03-09-15/04:45 | 03-09-15/10:45 | 03-09-15/16:45 |
| C | | Time Pulled | 1.) ZA500136 | 03-11-15/06:25 | 03-11-15/12:25 | 03-11-15/18:25 |

Apr. 6, 2015



Covidien_North Haven_STE14-028_Residuals_NonCBI - 000173

# Aeration Validation

## Set "A"

## Non-Absorbable Product

## Blank Samples

Stratis "Delrin": 0928900102-A

Surgidac Surgiwip Nylon: N4G0397X

V-Loc PBT Reload: 1436400017EER

V-Loc PBT: 1436400011EER

Set A

COPY

Blank

CHEM-033D
REV A

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 200001-00 **Aeration Time:** —

**Lot Number:** 092890 00102-A **Cycle Number:** N/A

**Sample Weight:** 0.0652g **Extraction Time:** 10 min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77 µg **Residual (ppm):** < 27 ppm

**Total weight of component:** 0.7345g **Total mg ETO:** < 0.020 mg ETO

**Sample Dimensions (cm)** 0.650 x 0.316 x 0.294 **Surface Area of Sample ($cm^2$)** 0.979 $cm^2$

**µg EtO/$cm^2$:** < 1.81 µg EtO/$cm^2$

**Performed by:** Lizbeth Jimenez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-11-2015

Set A
Blank
Suture

COPY

CHEM-033D
REV A

Surgiwip Size 0 L= 17cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EDW-52 **Aeration Time:** N/A

**Lot Number:** N4G0397X **Cycle Number:** N/A

**Sample Weight:** 0.1995g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77 ug **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.1745g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** 134cm, 0.503 **Surface Area of Sample ($cm^2$)** 266cm²

**µg EtO/$cm^2$:** < 0.007 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

Set A Blank Plastic

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: —

Lot No.: N4G0397X

Cycle No.: N/A

Sample Weight: 0.4948 g

Extraction Time: 2hr

Weight of Water: 1.6297g

Extraction Temp.: 37c

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <470820 | — | 2800000 | < 1.68 | < 2.74 |

Total ETO (mg): < 0.019 mg ETO

PPM: < 6 PPM

Dimensions of Sample (cm) L= 4.081 OD= 0.390

Surface Area ($cm^2$) 5.24cm²

µg ETO/$cm^2$ < 0.523µg ETO/cm²

Performed by: [signature] Date: MAR-10-2015

Reviewed by: [signature] Date: MAR-10-2015

Set A Blank Surgiwip
Metal

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4G0897X

Sample Weight: 1.1965g

Weight of Water: 3.7577g

Component Weight: 7.8428g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <470820 | — | | 280000 | < 1.68 | < 6.31 |

Total ETO (mg): < 0.041 mg ETO

PPM: < 5 PPM

Dimensions of Sample (cm) L=3.591 OD=0.499 ID=0.428

Surface Area ($cm^2$) 10.6cm2

µg ETO/$cm^2$ < 0.595 µg ETO/cm2

Performed by: [signature] Date: MAR-10-2015

Reviewed by: [signature] Date: MAR-11-2015

Set A Blank

Equal amt of suture for 4 pkgs

V-LOC Size = 0 L = 20cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCN008L **Aeration Time:** N/A

**Lot Number:** 1436400017 EER **Cycle Number:** N/A

**Sample Weight:** 0.1927g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <12677 | — | 7170 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.77 µg **Residual (ppm):** <9 ppm

**Total weight of component:** 0.04659 **Total mg ETO:** <0.0004 mg ETO

**Sample Dimensions (cm)** 82.9cm, 7.075 **Surface Area of Sample (cm²)** 11.7 cm²

**µg EtO/cm²:** <0.151 µg EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

Set A Blank

Equal amt of suture for 2 pkgs

V-LOC Size 1. L= 62cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0457 **Aeration Time:** —

**Lot Number:** 1436400011EER **Cycle Number:** N/A

**Sample Weight:** 0.2054g **Extraction Time:** 10 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77 ug **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.2021g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** 63.0cm; 5.792 **Surface Area of Sample ($cm^2$)** 10.9cm2

**µg EtO/$cm^2$:** < 0.162 ug ETO/cm2

**Performed by:** Lizbette Nunez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

# Aeration Validation

## Set "A"

## Non-Absorbable Product

## 0 Hr. Aeration

Stratis "Delrin": 0928900102-A

Surgidac Surgiwip Nylon: N4G0397X

V-Loc PBT Reload: 1436400017EER

V-Loc PBT: 1436400011EER

Set A 1X 0hr

CHEM-033D
REV A

COPY

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 200001-00 **Aeration Time:** 0hr

**Lot Number:** 0928900102-A **Cycle Number:** ZA500129

**Sample Weight:** 0.0751g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 587116 | 595856 | 591486 | 0.7 | 7960 | 74.3 |
| 2 | 27378 | 28095 | 27737 | 1.3 | 7960 | 3.48 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 77.8ug **Residual (ppm):** 1036ppm

**Total weight of component:** 0.7354g **Total mg ETO:** 0.762 mg ETO

**Sample Dimensions (cm)** 0.731x0.349x0.288 **Surface Area of Sample ($cm^2$)** 1.13cm²

**µg EtO/$cm^2$:** 68.8ug EtO/cm²

**Performed by:** [signature] **Date:** MAR-09-2015

**Reviewed by:** [signature] **Date:** Mar 09, 2015

Set A 1X0hr

Equal amt of suture for 2 pkgs.
Surgiwip Size 0 L= 117cm

CHEM-033D
REV A

Suture

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** EDW-52 **Aeration Time:** 0hr

**Lot Number:** N4G0397X **Cycle Number:** Z1500129

**Sample Weight:** 0.2029g **Extraction Time:** 30min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 460927 | 460589 | 460758 | 0.04 | 7960 | 57.9 |
| 2 | 119542 | 116964 | 118253 | 1.1 | 7960 | 14.9 |
| 3 | 32032 | 30624 | 31328 | 2.2 | 7960 | 3.94 |
| | | | | | | |

**Total ETO Content:** 76.7 ug **Residual (ppm):** 378ppm

**Total weight of component:** 0.1750g **Total mg ETO:** 0.066mg ETO

**Sample Dimensions (cm)** 13.6cm, 0.503 **Surface Area of Sample ($cm^2$)** 270cm²

**µg EtO/$cm^2$:** 0.284 ug ETO/cm²

**Performed by:** Lizbeth A. Munoz **Date:** MAR-09-2015

**Reviewed by:** Joan Cruz **Date:** Mar 09, 2015

Set A 1X 0hr
Plastic

Surgiwip
Suture Ligature with Delivery System

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: 0hr

Lot No.: N4G0397X

Cycle No.: Z1500129

Sample Weight: 0.3812g

Extraction Time: 2hr

Weight of Water: 1.6213g

Extraction Temp.: 37c

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 8128816 | 8241491 | 8185154 | 0.7 | 2310000 | 35.4 | 57.4 |

Total ETO (mg): 0.529 mg ETO
PPM: 151 PPM
Dimensions of Sample (cm) 3.248 OD= 0.386
Surface Area ($cm^2$) 4.17cm2
µg ETO/$cm^2$ 13.8 µg ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-09-2015

Reviewed by: Sean Crow Date: Mar 09, 2015

Set A 1X 0hr
Metal

Surgiwip
Suture Ligature with Delivery System

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4G0397X

Sample Weight: 1.1140g

Weight of Water: 2.7642g

Component Weight: 7.8428g

Aeration Time: 0hr

Cycle No.: ZA500129

Extraction Time: 2hrs

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 395820 | — | 231000 | < 1.71 | < 4.73 |

Total ETO (mg): 0.033 mg ETO
PPM: 4 PPM
Dimensions of Sample (cm) L=3.351 OD=0.499 ID=0.431
Surface Area ($cm^2$) 9.89 $cm^2$
µg ETO/$cm^2$ 0.478 ug ETO/$cm^2$

Performed by: [signature] Date: MAR-09-2015

Reviewed by: [signature] Date: Mar 09, 2015

Equal amt of suture for 4pkgs.

Set A 1X 0hr

PBT - Reload.

V-LOC Size 0 L= 21cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0081 **Aeration Time:** 0hr

**Lot Number:** 1436400017EBR **Cycle Number:** ZA500129

**Sample Weight:** 0.1955g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2992462 | 3118909 | 3055686 | 2.1 | 7960 | 384 |
| 2 | 89195 | 90938 | 90067 | 1.0 | 7960 | 11.3 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 395ug **Residual (ppm):** 2020ppm

**Total weight of component:** 0.0499g **Total mg ETO:** 0.101mg ETO JC 3-9-15

**Sample Dimensions (cm)** 8.23cm, ~~9.95~~ 7.75 JC 3-9-15 **Surface Area of Sample (cm²)** ~~8.27~~ 11.6 cm2

**µg EtO/cm²:** ~~47.8~~ 34.1 ug ETO/cm2 JC 3-9-15

**Performed by:** Lizbeth Nunez **Date:** MAR-09-2015

**Reviewed by:** Jack Cino **Date:** Mar 09, 2015

Set A 1X Ohr

Equal amt of suture for 2 pkgs.

VLOC Size 1 L=.62cm PBT

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCN0437 **Aeration Time:** Ohr

**Lot Number:** 1436400011EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1992g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2809258 | 2685942 | 2747600 | 2.2 | 7960 | 345 |
| 2 | 110720 | 111358 | 111039 | 0.3 | 7960 | 13.9 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 359ug **Residual (ppm):** 1802ppm

**Total weight of component:** 0.1991g **Total mg ETO:** 0.359mgETO

**Sample Dimensions (cm)** 62.0cm; 5.792 **Surface Area of Sample ($cm^2$)** 10.7cm2

**µg EtO/$cm^2$:** 33.6ug EtO/cm2

**Performed by:** Lizbeth A. Jimenez **Date:** MAR-09-2015

**Reviewed by:** Jose Cirio **Date:** Mar 09, 2015

# Aeration Validation

## Set "A"

## Non-Absorbable Product

## 6 Hr. Aeration

Stratis "Delrin": 0928900102-A

Surgidac Surgiwip Nylon: N4G0397X

V-Loc PBT Reload: 1436400017EER

V-Loc PBT: 1436400011EER

Set A 1X 6hr

CHEM-033D
REV A

COPY

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 200001-60 **Aeration Time:** 6hr

**Lot Number:** 092890 0102-A **Cycle Number:** Z15001 29

**Sample Weight:** 0.0612g **Extraction Time:** 30min.

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 286263 | 289379 | 287821 | 0.5 | 7960 | 36.2 |
| 2 | 36884 | 37595 | 37240 | 1.0 | 7960 | 4.68 |
| 3 | 11345 | 11316 | 11331 | 0.1 | 7960 | 1.42 |
| | | | | | | |

**Total ETO Content:** 42.3ug **Residual (ppm):** 691ppm

**Total weight of component:** 0.7353g **Total mg ETO:** 0.508mg ETO

**Sample Dimensions (cm)** 0.674x0.319x0.288 **Surface Area of Sample ($cm^2$)** 1.00cm²

**µg EtO/$cm^2$:** 42.3ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-09-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

Set A 1X 6hr

CHEM-033D
REV A

Equal amt for 2 pkgs.
Surgiwip Size 0 L= 118cm

Suture

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EDW-52 **Aeration Time:** 6hr

**Lot Number:** N4G0397X **Cycle Number:** ZA500129

**Sample Weight:** 0.1888g **Extraction Time:** 30min

**Extraction Temp:** 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 193180 | 194484 | 193832 | 0.3 | 7960 | 24.4 |
| 2 | 51252 | 50906 | 51079 | 0.3 | 7960 | 6.42 |
| 3 | 12006 | 11564 | 11785 | 1.9 | 7960 | 1.48 |
| | | | | | | |

**Total ETO Content:** 32.3ug **Residual (ppm):** 171 ppm

**Total weight of component:** 0.1751g **Total mg ETO:** 0.030mg ETO

**Sample Dimensions (cm)** 127cm, 0.503 **Surface Area of Sample ($cm^2$)** 252cm²

**µg EtO/$cm^2$:** 0.128ug EtO/cm2

**Performed by:** [signature] **Date:** MAR-09-2015

**Reviewed by:** [signature] **Date:** MAR-10-2015

Set A 1x 6hr Surgiwip
Plastic

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW1-52
Aeration Time: 6hr
Lot No.: N4G0397X
Cycle No.: Z1500129
Sample Weight: 0.4291g
Extraction Time: 2hr
Weight of Water: 1.4821g
Extraction Temp.: 37c
Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 6802307 | 6975674 | 6888991 | 1.3 | 231000 | 29.8 | 44.2 |

Total ETO (mg): 0.362 mg ETO
PPM: 103PPM
Dimensions of Sample (cm) L= 3.635 OD=0.385
Surface Area ($cm^2$) 4.63cm2
µg ETO/$cm^2$ 9.55 µg ETO/cm2

Performed by: [signature] Date: MAR-09-2015

Reviewed by: [signature] Date: MAR-10-2015

Set A 1x6hr

Metal

Surgiwip.

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: 6hr

Lot No.: N4G0397X

Cycle No.: Z1500129

Sample Weight: 1.1176g

Extraction Time: 2hr

Weight of Water: 2.1531g

Extraction Temp.: 37c

Component Weight: 7.8428g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <395820 | — | 231000 | <1.71 | < 3.68 |

Total ETO (mg): < 0.026 mg ETO

PPM: < 3PPM

Dimensions of Sample (cm) L=3.227 OD=0.490 ID=0.430

Surface Area ($cm^2$) 9.48cm2

µg ETO/$cm^2$ < 0.388 ug ETO/cm2

Performed by: [signature] Date: MAR-09-2015

Reviewed by: [signature] Date: MAR-10-2015

Set A 1x 6hr PBT Reload.

CHEM-033D
REV A

Equal amt of suture for 4pkgs
V-LOC Size 0 L=21cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0081 **Aeration Time:** 6hr

**Lot Number:** 1436400017EBR **Cycle Number:** 2A500129

**Sample Weight:** 0.1928g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1639599 | 1651258 | 1645429 | 0.4 | 7960 | 207 |
| 2 | 101264 | 102263 | 101764 | 0.5 | 7960 | 12.8 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 220 ug **Residual (ppm):** 1141 ppm

**Total weight of component:** 0.0491g **Total mg ETO:** 0.056 mg ETO

**Sample Dimensions (cm)** 82.5 cm², 7.015 **Surface Area of Sample (cm²)** 11.7 cm²

**µg EtO/cm²:** 18.8 ug EtO/cm2

**Performed by:** [signature] **Date:** MAR-09-2015

**Reviewed by:** [signature] **Date:** MAR-10-2015

Set A 1X6hr

Equal amt of suture for 2 pkgs.

V-LOC Size 1 . L= 61cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

PBT

Reorder Code: VLOCN0437 Aeration Time: 6hr

Lot Number: 14364 00011EER Cycle Number: ZA500129

Sample Weight: 0.2045g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1704559 | 1674291 | 1689425 | 0.9 | 7960 | 212 |
| 2 | 133581 | 131266 | 132424 | 0.9 | 7960 | 16.6 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 229.6g Residual (ppm): 1120 ppm

Total weight of component: 0.1991g Total mg ETO: 0.223mg ETO

Sample Dimensions (cm) 62.7cm; 5.792 Surface Area of Sample ($cm^2$) 10.8cm²

µg EtO/$cm^2$: 21.2µg EtO/cm²

Performed by: Lizbeth Jimenez Date: MAR-09-2015

Reviewed by: [signature] Date: MAR-10-2015

# Aeration Validation

## Set "A"

## Non-Absorbable Product

## 12 Hr. Aeration

Stratis "Delrin": 0928900102-A

Surgidac Surgiwip Nylon: N4G0397X

V-Loc PBT Reload: 1436400017EER

V-Loc PBT: 1436400011EER

Set A 1x 12hr

CHEM-033C
REV A

COPY

Delrin

Sample Analysis Data Sheet

Reorder Code: 200001-00
Lot Number: 0928900102-A
Cycle Number: Z1500129

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1144 g
Water Weight 1.4279 g
Component Wt. 0.7360 g
Sample Dimensions (cm) 0.649x0.478x0.290

Dilution Factor 12.4816
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 1.27cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 21287 | — | 1005 | < 21.2 | < 265 | < 0.195 |

**Ethylene Oxide**

Sample Weight 0.0762 g
Component Wt. 0.7360 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 177051 | 175168 | 176110 | 0.5 | 7170 | 24.6 |
| 2 | 18774 | 18747 | 18761 | 0.1 | 7170 | 2.62 |
| 3 | 10473 | 10414 | 10444 | 0.3 | 7170 | 1.46 |
| | | | | | | |

Total ETO content (µg) 28.7 µg
Total mg ETO 0.277 mg ETO
Dimensions of Sample (cm) 0.763x0.342x0.247

Residual (ppm) 377 ppm
Surface Area (cm²) 1.07 cm²

µg EtO/cm² 26.8 ug EtO/cm²

mg EtCh/cm² < 0.024 mg EtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-11-2015

Reviewed by: E. Allio

Date: MAR-12-2015

Set A 1X 12hr

CHEM-033C
REV A

Surgiwip size 0 L=117cm

Sample Analysis Data Sheet

COPY

Reorder Code: EDW-52
Lot Number: N4G0397X
Cycle Number: ZA500129

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0876 g
Water Weight 3.3606 g
Component Wt. 0.1739 g
Sample Dimensions (cm) 58.9cm; 0.503

Dilution Factor 38.3630
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 117cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <21287 | — | 1005 | <21.2 | <813 | <0.141 |

**Ethylene Oxide**

Sample Weight 0.0861 g
Component Wt. 0.1739 g

Extraction Time 30min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 17461 | 17647 | 17554 | 0.5 | 7170 | 2.45 |
| 2 | 2005 | 2016 | 2011 | 0.3 | 7170 | 0.280 |
| 3 | no response | | — | — | — | — |
| | | | | | | |

Total ETO content (µg) 2.73 µg
Total mg ETO 0.0026mg ETO
Dimensions of Sample (cm) 57.9cm; 0.503

Residual (ppm) 32ppm
Surface Area (cm²) 115cm²

µg EtO/cm² 0.024µg EtO/cm²

mg EtCh/cm² < 0.0006mg EtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-11-2015

Reviewed by: [illegible]

Date: MAR-12-2015

Set A 1X 12hr
Plastic

COPY

Surgiwip

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: N4G0397X Aeration Conditions: ≈105°F

Cycle Number: ZA500129 Extraction Time: 2hr

Component Weight: 3.5134g Extraction Temp. 37C

Sample Weight: 0.4698g Water Weight: 2.3648g

**Ethylene Chlorohydrin**

Dilution Factor: 5.0336

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 107 | < 0.375 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 4674387 | 4797104 | 4735746 | 1.3 | 280000 | 16.9 | 40.0 | 85 |

Total mg ETO: 0.299 mg ETO

Dimensions of Sample L=3.934 OD=0.387 Surface Area ($cm^2$) 5.02 $cm^2$

µg ETO/ $cm^2$ 7.97 ug ETO/cm² mg EtCh/ $cm^2$ < 0.010 mg EtCh/cm²

Performed by: Lysbeth Jimenez Date: MAR-11-2015

Reviewed by: [illegible] Date: MAR-12-2015

Set A 1X 12hr

CHEM-029C
REV A

COPY

metal

Surgiwip.

**Sample Analysis Data Sheet**

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: N4G0397X Aeration Conditions: ≈105°F

Cycle Number: ZA500129 Extraction Time: 2hr

Component Weight: 7.8428g Extraction Temp. 37c

Sample Weight: 1.2150g Water Weight: 3.3398g

**Ethylene Chlorohydrin**

Dilution Factor: 2.7488

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 58 | < 0.457 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | < 470820 | — | 280000 | < 1.68 | < 5.61 | < 5 |

Total mg ETO: < 0.036mg ETO

Dimensions of Sample L = 3.615 OD = 0.495 ID = 0.433 Surface Area ($cm^2$) 10.6cm²

µg ETO/ $cm^2$ < 0.529 ug ETO/cm² mg EtCh/ $cm^2$ < 0.007 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-11-2015

Reviewed by: [illegible] Date: MAR-12-2015

Set A 1X 12hr

Equal amt of suture for 2 pkg
V-LOC Size 0 L = 20cm

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: VLOC N008L
Lot Number: 14364000 17EER
Cycle Number: ZA500129

Aeration Time: 12hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.0950 g
Water Weight 2.9722 g
Component Wt. 0.0482 g
Sample Dimensions (cm) 39.4cm; 7.075

Dilution Factor 31.2863
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.57cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 21287 | — | 1005 | <21.2 | < 663 | < 0.032 |

## Ethylene Oxide

Sample Weight 0.0983 g
Component Wt. 0.0485 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 558532 | 570784 | 564658 | 1.1 | 7170 | 78.8 |
| 2 | 20822 | 20894 | 20858 | 0.2 | 7170 | 2.91 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 81.7ug
Total mg ETO 0.0410 mg ETO
Dimensions of Sample (cm) 40.5cm; 7.075

Residual (ppm) 831ppm
Surface Area (cm²) 5.72cm²

µg EtO/cm² 14.3ug ETO/cm²

mg EtCh/cm² < 0.011mg EtCh/cm²

Performed by: [signature]

Date: MAR-11-2015

Reviewed by: [signature]

Date: MAR-12-2015

Set A 1X 12hr

CHEM-033C
REV A

V-LOC Size 1 L= 62cm

COPY

Sample Analysis Data Sheet

Reorder Code: VLOCN0437 Aeration Time: 12hr
Lot Number: 1436400011EER Aeration Conditions: ≈105°F
Cycle Number: ZA500129

**Ethylene Chlorohydrin**

Sample Weight 0.1002 g
Water Weight 3.0666 g
Component Wt. 0.2027 g
Sample Dimensions (cm) 30.6cm², 5.792

Dilution Factor 30.6048
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.28cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | < 21287 | — | | 1005 | < 21.2 | < 649 | < 0.132 |

**Ethylene Oxide**

Sample Weight 0.1024 g
Component Wt. 0.2027 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 627155 | 606391 | 616773 | 1.7 | 7170 | 86.0 |
| 2 | 23728 | 23827 | 23778 | 0.2 | 7170 | 3.32 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 89.3ug
Total mg ETO 0.177 mg ETO
Dimensions of Sample (cm) 31.3cm², 5.792

Residual (ppm) 872ppm
Surface Area (cm²) 5.40cm²

µg EtO/cm² 16.5 ug EtO/cm²

mg EtCh/cm² < 0.012 mg EtChl/cm²

Performed by: Lizbeth Almonacy

Date: MAR-11-2015

Reviewed by: [illegible]

Date: MAR-12-2015

# Aeration Validation

## Set "B"

## Non-Absorbable Product

## Blank Samples

Stratis "Delrin": 0928900102-B

Surgidac Surgiwip Nylon: N4C0578X

V-Loc PBT Reload: 1436400018EER

V-Loc PBT: 1436400012EER

Set B Blank

CHEM-033D
REV A

COPY

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 200001-00 **Aeration Time:** —

**Lot Number:** 0928900102-B **Cycle Number:** N/A

**Sample Weight:** 0.0710g **Extraction Time:** 10min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <12677 | — | 7170 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.77 µg **Residual (ppm):** < 25 ppm

**Total weight of component:** 0.7346g **Total mg ETO:** < 0.018 mg ETO

**Sample Dimensions (cm)** 0.709 x 0.342 x 0.288 **Surface Area of Sample ($cm^2$)** 1.09 $cm^2$

**µg EtO/$cm^2$:** <1.62 µg EtO/$cm^2$

**Performed by:** Lupeth A. Jimenez **Date:** MAR-10-2015

**Reviewed by:** Jodi Cruz **Date:** Mar 27, 2015

Set B Blank

CHEM-033D
REV A

Surgiwip Size 0 · L=116.5cm

COPY

Suture

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EDW-52 **Aeration Time:** —

**Lot Number:** N4C0578X **Cycle Number:** n/a

**Sample Weight:** 0.1949g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77ug **Residual (ppm):** < 9ppm

**Total weight of component:** 0.1713g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** 133cm, 0.503 **Surface Area of Sample ($cm^2$)** 264cm2

**µg EtO/$cm^2$:** < 0.007ug EtO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

Set B Blank
Plastic

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: —

Lot No.: N4C0578X

Cycle No.: N/A

Sample Weight: 0.4370g

Extraction Time: 2hr

Weight of Water: 2.2443g

Extraction Temp.: 37c

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <470820 | — | 280000 | <1.68 | < 3.77 |

Total ETO (mg): < 0.030 mg ETO
PPM: < 9 PPM
Dimensions of Sample (cm) L=3.604 OD=0.385
Surface Area ($cm^2$) 459 $cm^2$
µg ETO/$cm^2$ < 0.821 ug ETO/$cm^2$

Performed by: Lizbeth A. Jimenez Date: MAR-10-2015

Reviewed by: [illegible] Date: MAR-10-2015

Set B Blank

Surgiwip

CHEM-029B
REV A

Metal

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: —

Lot No.: N4C0578X

Cycle No.: N/A

Sample Weight: 1.1345g

Extraction Time: 2hrs

Weight of Water: 2.1742g

Extraction Temp.: 37c

Component Weight: 7.8428g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <470820 | — | 280000 | < 1.68 | < 3.65 |

Total ETO (mg): < 0.025 mg ETO

PPM: < 3 PPM

Dimensions of Sample (cm) 3.380x OD=0.495 ID=0.427

Surface Area ($cm^2$) 9.89cm²

µg ETO/$cm^2$ < 0.369 ug ETO/cm²

Performed by: Lupeth Nimeney Date: MAR-10-2015.

Reviewed by: [signature] Date: MAR-11-2015

Set B Blank

Equal amt of suture for 4 pkgs

V-LOC Size 0 L = 21cm PBT Reload.

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0081 **Aeration Time:** —

**Lot Number:** 1436400018FER **Cycle Number:** N/A

**Sample Weight:** 0.1974g **Extraction Time:** 10min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77ug **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.0486g **Total mg ETO:** < 0.0004mg ETO

**Sample Dimensions (cm)** 85.3cm; 7.075 **Surface Area of Sample (cm²)** 12.1cm2

**µg EtO/cm²:** < 0.146 ug ETO/cm2

**Performed by:** Lizbeth Dominguez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR-10-2015

Set B Blank

CHEM-033D
REV A

Equal amt of suture for 2 pkgs
V-LOC Size 1 L= 62cm

**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** VLOCN0437 **Aeration Time:** —

**Lot Number:** 1436400012EER **Cycle Number:** N/A

**Sample Weight:** 0.1954g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 12677 | — | 7170 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77ug **Residual (ppm):** < 9ppm

**Total weight of component:** 0.1967g **Total mg ETO:** < 0.002mg ETO

**Sample Dimensions (cm)** 61.6cm², 5.792 **Surface Area of Sample (cm²)** 10.6cm²

**µg EtO/cm²:** < 0.167 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-10-2015

**Reviewed by:** [illegible] **Date:** MAR - 10-2015

# Aeration Validation

## Set "B"

## Non-Absorbable Product

## 0 Hr. Aeration

Stratis "Delrin": 0928900102-B

Surgidac Surgiwip Nylon: N4C0578X

V-Loc PBT Reload: 1436400018EER

V-Loc PBT: 1436400012EER

Set B 1X 0hr

CHEM-033D
REV A

COPY

Delrin
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 200001-00 **Aeration Time:** 0hr

**Lot Number:** 0928900102-B **Cycle Number:** ZB500130

**Sample Weight:** 0.0825g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 718141 | 698831 | 708486 | 1.4 | 7960 | 89.0 |
| 2 | 28754 | 29433 | 29094 | 1.2 | 7960 | 3.66 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 92.7ug **Residual (ppm):** 1124ppm

**Total weight of component:** 0.7352g **Total mg ETO:** 0.826mg ETO

**Sample Dimensions (cm)** 0.721x0.374x0.287 **Surface Area of Sample ($cm^2$)** 1.17cm2

**µg EtO/$cm^2$:** 79.2ug ETO/cm2

**Performed by:** Lupe A Jimenez **Date:** MAR-09-2015

**Reviewed by:** Juan Cino **Date:** Mar 09, 2015

Set B 1X 0hr

CHEM-033D
REV A

Size 0 L= 116cm
Surgiwip Suture Ligature with Delivery System

Suture COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** EDW-52 **Aeration Time:** 0hr

**Lot Number:** N4C0578X **Cycle Number:** ZB500130

**Sample Weight:** 0.1997g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 517230 | 498546 | 507888 | 1.8 | 7960 | 63.8 |
| 2 | 39390 | 37598 | 38494 | 2.3 | 7960 | 4.84 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 68.6ug **Residual (ppm):** 344 ppm

**Total weight of component:** 0.1696g **Total mg ETO:** 0.058mg ETO

**Sample Dimensions (cm)** 137cm; 0.503 **Surface Area of Sample ($cm^2$)** 272cm²

**µg EtO/$cm^2$:** 0.252ug EtO/cm²

**Performed by:** Lizbeth Nimeney **Date:** MAR-09-2015

**Reviewed by:** [signature] **Date:** Mar 09, 2015

Set B1X 0hr

Plastic

Suture Ligature with Delivery System

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: 0hr

Lot No.: N4C0578X

Cycle No.: EB500130

Sample Weight: 0.4408g

Extraction Time: 2hr

Weight of Water: 1.4697g

Extraction Temp.: 37C

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 12013336 | 12400472 | 12206904 | 1.6 | 2310000 | 52.8 | 77.6 |

Total ETO (mg): 0.619 mg ETO

PPM: 176 PPM

Dimensions of Sample (cm) 3.698 OD = 0.389

Surface Area ($cm^2$) 4.76cm2

µg ETO/$cm^2$ 16.3ug ETO/cm2

Performed by: Lizbeth A. Jimenez Date: MAR-09-2015

Reviewed by: Sara Cino Date: Mar 09, 2015

Set B 1X 0hr

Metal

Surgiwip

Suture Ligature with Delivery System

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4C0578X

Sample Weight: 1.0864g

Weight of Water: 3.0084g

Component Weight: 7.8428g

Aeration Time: 0hr

Cycle No.: ZB500130

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 395820 | — | 231000 | < 1.71 | < 5.14 |

Total ETO (mg): < 0.037 mg ETO

PPM: < 5 PPM

Dimensions of Sample (cm) L = 3.226 OD = 0.502 ID = 0.431

Surface Area ($cm^2$) 9.56 cm2

µg ETO/$cm^2$ < 0.538 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-09-2015

Reviewed by: Jack Cino Date: Mar 09, 2015

Set B 1X 0hr PBT Reload

Equal amt of suture for 4 pkgs

V-LOC Size 0 . L= 21cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCN008L **Aeration Time:** 0hr

**Lot Number:** 1436400018EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1978g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 3239269 | 3186638 | 3212954 | 0.8 | 7960 | 404 |
| 2 | 100688 | 101215 | 100952 | 0.3 | 7960 | 12.7 |
| | | | | | | |
| | | | | | | |

MAR-09-2015 LTT

**Total ETO Content:** 4170 µg **Residual (ppm):** 2108ppm

**Total weight of component:** 0.0503g **Total mg ETO:** 0.106mg ETO

**Sample Dimensions (cm)** 82.6cm; 7.075 **Surface Area of Sample ($cm^2$)** 11.7cm²

**µg EtO/$cm^2$:** 35.6µg ETO/cm²

**Performed by:** Lizpeth Nimenez **Date:** MAR-09-2015

**Reviewed by:** Jodi Cirio **Date:** Mar 09, 2015

Set B 1x 0hr

CHEM-033D
REV A

Equal amt of suture for 2pkgs
V-LOC Size 1 L= 61.5cm PBT

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0437 **Aeration Time:** 0hr

**Lot Number:** 14364G0012EFR **Cycle Number:** ZB500130

**Sample Weight:** 0.2134 g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2917237 | 2861253 | 2889245 | 1.0 | 7960 | 363 |
| 2 | 195124 | 204889 | 200007 | 2.4 | 7960 | 25.1 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 388ug **Residual (ppm):** 1818ppm

**Total weight of component:** 0.2038g **Total mg ETO:** 0.371 mg ETO VR 3-9-15

**Sample Dimensions (cm)** 64.4 ~~7.075~~ 0.7912 VR 3-9-15 **Surface Area of Sample (cm²)** ~~9.10~~ 11.1 cm² VR 3-9-15

**µg EtO/cm²:** ~~42.6~~ 35.0 ug EtO/cm² VR 3-9-15

**Performed by:** Lizbeth Jimenez **Date:** MAR-09-2015

**Reviewed by:** Jodi Crino **Date:** Mar 09, 2015

# Aeration Validation

## Set "B"

## Non-Absorbable Product

## 6 Hr. Aeration

Stratis "Delrin": 0928900102-B

Surgidac Surgiwip Nylon: N4C0578X

V-Loc PBT Reload: 1436400018EER

V-Loc PBT: 1436400012EER

Set B 1X 6hr

CHEM-033D
REV A

COPY

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 200001-00 **Aeration Time:** 6hr

**Lot Number:** 0928900102-B **Cycle Number:** ZB500130

**Sample Weight:** 0.0700 g **Extraction Time:** 30min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1665.916 | 1698.909 | 1682.413 | 1.0 | 33.3 | 50.5 |
| 2 | 286.839 | 276.191 | 281.515 | 1.9 | 33.3 | 8.45 |
| 3 | 53.6031 | 50.3664 | 51.9848 | 3.1 | 33.3 | 1.56 |
| | | | | | | |

**Total ETO Content:** 60.5 **Residual (ppm):** 864 ppm

**Total weight of component:** 0.7363g **Total mg ETO:** 0.636 mg

**Sample Dimensions (cm)** 0.716x0.312x0.289 **Surface Area of Sample (cm²)** ~~1.07~~ 1.04 cm²
LJJ MAR-09-2015

**µg EtO/cm²:** 58.2 ~~56.5~~ ug/cm²
LJJ MAR-09-2015

**Performed by:** [signature] **Date:** Mar 09, 2015

**Reviewed by:** [signature] **Date:** MAR-09-2015

COPY

CHEM-033D
REV A

Set B 1x 6hr
Surgiwip size 0. L= 116cm

Sdw

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EDW-52 Aeration Time: 6hr

Lot Number: N4C0578X Cycle Number: ZB500130

Sample Weight: 0.1831g Extraction Time: 30min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1207.25 | 1148.16 | 1177.71 | 2.5 | 33.3 | 35.4 |
| 2 | 239.133 | 247.967 | 243.550 ~~243.700~~ LJJ MAR-09-2015 | 1.8 | 33.3 | ~~7.32~~ 7.31 LJJ MAR-09-2015 |
| 3 | 54.5496 | 55.8799 | 55.2148 | 1.2 | 33.3 | 1.66 |
| | | | | | | |

Total ETO Content: 44.4 Residual (ppm): 242 ppm

Total weight of component: 0.1679g Total mg ETO: 0.041 mg

Sample Dimensions (cm) L=127 cm Surface Area of Sample ($cm^2$) ~~253~~ 252 $cm^2$ LJJ MAR-09-2015

µg EtO/$cm^2$: ~~0.176~~ 0.176 ~~0.18~~ µg/$cm^2$ LJJ MAR-09-2015

Performed by: [signature] Date: Mar 09, 2015

Reviewed by: [signature] Date: MAR-09-2015

Surgiwip Size O

Set B 1X 6hr
Plastic

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: 6hr

Lot No.: N4C0578X

Cycle No.: ZB500130

Sample Weight: 0.3867g

Extraction Time: 2hr

Weight of Water: 1.4186cg

Extraction Temp.: 37C

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 7422192 | 7535914 | 7479053 | 0.8 | 231000 | 32.4 | 46.0 |

Total ETO (mg): 0.418 mg ETO
PPM: 119 PPM
Dimensions of Sample (cm) L = 3.296 OD = 0.389
Surface Area ($cm^2$) 4.27 $cm^2$
µg ETO/$cm^2$ 10.8 ug ETO/$cm^2$

Performed by: Elizabeth Jimenez Date: MAR-09-2015

Reviewed by: [illegible] Date: MAR-10-2015

Set 10 1X 6hr
Metal

Surgiwip Size 0
Suture Ligature with Delivery System

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4C0578X

Sample Weight: 1.2038g

Weight of Water: 1.5778g

Component Weight: 7.8428g

Aeration Time: 6hr

Cycle No.: EB500130

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <395820 | — | 231000 | < 1.71 | < 2.70 |

Total ETO (mg): < 0.018 mg ETO
PPM: < 2 PPM
Dimensions of Sample (cm) L=3.706 OD=0.496 ID=0.434
Surface Area ($cm^2$) 10.9 cm2
µg ETO/$cm^2$ < 0.248 ug ETO/cm2

Performed by: Elizabeth Jimenez Date: MAR-09-2015

Reviewed by: [illegible] Date: MAR-10-2015

Set B 1x 6hr

CHEM-033D
REV A

Equal amt of suture for 4 pkgs
V-LOC Size 0 L = 21cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** V LOC N008L **Aeration Time:** 6hr

**Lot Number:** 143604 00018EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1980g **Extraction Time:** 20 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 8592823 | 8501.246 | 8547.035 | 0.5 | 33.3 | 257 |
| 2 | 510.870 | 513.580 | 512.23 | 0.3 | 33.3 | LJJ MAR-09-2015 ~~0.668~~ 15.4 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** MAR-09-2015 LJJ ~~258~~ 272 **Residual (ppm):** ~~1303~~ 1374 ppm LJJ MAR-09-2015

**Total weight of component:** 0.0493g **Total mg ETO:** ~~0.068~~ 0.065 mg LJJ MAR-09-2015

**Sample Dimensions (cm)** L = 84 cm **Surface Area of Sample (cm²)** 11.9 cm²

**µg EtO/cm²:** 22.9 ~~21.6~~ µg/cm² LJJ MAR-09-2015

**Performed by:** [signature] **Date:** Mar 09, 2015

**Reviewed by:** [signature] **Date:** MAR-09-2015

Set B 1x 6hr
@ VLOC size 1 L= 61 cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC N0437 Aeration Time: 6 hr

Lot Number: 1436400012EEE Cycle Number: ZB500130

Sample Weight: 0.1151 g Extraction Time: 20 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 5177.082 | 4980.210 | 5078.646 | 1.9 | 33.3 | 153 |
| 2 | 245.537 | 244.716 | 245.127 | 0.2 | 33.3 | 7.36 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 160 Residual (ppm): 1390 ppm

Total weight of component: 0.2009 g Total mg ETO: 0.279 mg

Sample Dimensions (cm) L=35cm Surface Area of Sample ($cm^2$) ~~4.12~~ 6.04 $cm^2$

µg EtO/$cm^2$: 26.5 ~~38.8~~ µg/$cm^2$
LJJ MAR-09-2015

Performed by: [signature] Date: Mar 09, 2015

Reviewed by: [signature] Date: MAR-09-2015

# Aeration Validation

## Set "B"

## Non-Absorbable Product

## 12 Hr. Aeration

Stratis "Delrin": 0928900102-B

Surgidac Surgiwip Nylon: N4C0578X

V-Loc PBT Reload: 1436400018EER

V-Loc PBT: 1436400012EER

Set B 12hr 1X

CHEM-033C
REV A

Delrin

Sample Analysis Data Sheet

COPY

Reorder Code: 260001-00
Lot Number: 092890010 2-B
Cycle Number: ZB500130

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1003 g
Water Weight 0.9025 g
Component Wt. 0.7357 g
Sample Dimensions (cm) 0.732 x 0.380 x 0.265

Dilution Factor 8.9980
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 1.15cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | < 21287 | — | 1005 | < 21.2 | < 191 | ~~0.017~~ LJJ MAR 11-2015 ~~0.140~~ LJJ MAR-11-2015 < 0.140 |

**Ethylene Oxide**

Sample Weight 0.0648 g
Component Wt. 0.7357 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 248493 | 252453 | 250473 | 0.8 | 7170 | 34.9 |
| 2 | 28535 | 29007 | 28771 | 0.8 | 7170 | 4.01 |
| 3 | 14326 | 14180 | 14253 | 0.5 | 7170 | 1.99 |
| | | | | | | |

Total ETO content (µg) 40.9ug
Total mg ETO 0.464 mg ETO
Dimensions of Sample (cm) 0.592 x 0.306 x 0.286

Residual (ppm) 631 ppm
Surface Area (cm²) 0.876 cm²

µg EtO/cm² 46.7 ug EtO/cm²

mg EtCh/cm² < 0.017 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Reviewed by: [illegible]

Date: MAR-11-2015
Date: MAR-11-2015

Set B 12hr 1X

CHEM-033C
REV A

Surgiwip Size O L= 117cm

Sample Analysis Data Sheet

COPY

Reorder Code: EDW-52
Lot Number: N4C0578X
Cycle Number: ZB500130

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0858 g
Water Weight 2.5185 g
Component Wt. 0.1693 g
Sample Dimensions (cm) 59.3cm; 0.503

Dilution Factor 29.3531
Extraction Time 24hrs
Extraction Temp. room temp.
Surface Area 118cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 21287 | — | 1005 | < 21.2 | < 622 | < 0.105 |

**Ethylene Oxide**

Sample Weight 0.0830 g
Component Wt. 0.1693 g

Extraction Time 30min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 27369 | 26801 | 27085 | 1.0 | 7170 | 3.78 |
| 2 | 4131 | 4396 | 4264 | 3.1 | 7170 | 0.595 |
| 3 | no response | | — | — | — | — |
| | | | | | | |

Total ETO content (µg) 4.38ug
Total mg ETO 0.009 mg ETO
Dimensions of Sample (cm) 57.4cm; 0.503

Residual (ppm) 53ppm
Surface Area (cm²) 114 cm²

µg EtO/cm² 0.038 ug EtO/cm²

mg EtCh/cm² < 0.0005 mgEtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-11-2015

Reviewed by: [illegible]
Date: MAR-11-2015

Set B 12hr 1X

Plastic

Surgiwip

CHEM-029C
REV A

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: N4C0578X Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 3.5134g Extraction Temp. 37c

Sample Weight: 0.4306g Water Weight: 3.3091g

### Ethylene Chlorohydrin

Dilution Factor: 7.6849

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 163 | < 0.572 |

### Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 3439422 | 3580878 | 3510150 | 2.0 | 280000 | 12.5 | 41.4 | 96 |

Total mg ETO: 0.338mg ETO

Dimensions of Sample L= 3.620 OD= 0.390 Surface Area ($cm^2$) 4.67cm2

µg ETO/ $cm^2$ 8.87ug ETO/cm2 mg EtCh/ $cm^2$ < 0.015 mg EtCh/cm2

Performed by: Lizbeth Jimenez Date: MAR-11-2015

Reviewed by: [illegible] Date: MAR-11-2015

Set B 12hr 1X

CHEM-029C
REV A

Metal

Surgiwip

COPY

**Sample Analysis Data Sheet**

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: N4C0578X Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 7.8428g Extraction Temp. 37c

Sample Weight: 1.2212g Water Weight: 3.5322g

**Ethylene Chlorohydrin**

Dilution Factor: 2.8924

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <21287 | — | 1005 | <21.2 | <61 | <0.481 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | <470820 | — | 280000 | <1.68 | <5.93 | < 5 |

Total mg ETO: < 0.038 mg ETO

Dimensions of Sample L=3.621 OD=0.495 ID=0.436 Surface Area ($cm^2$) 10.7cm²

µg ETO/ $cm^2$ < 0.554 ug ETO/cm² mg EtCh/ $cm^2$ < 0.007 mg EtCh/cm²

Performed by: Lyberth Jimenez Date: MAR-11-2015

Reviewed by: [illegible] Date: MAR-11-2015

Set B 1X 12hr

Equal amt of suture for 2pkg

V-LOC Size 0 L= 20cm

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: VLOCN008L
Lot Number: 1436400018EBR
Cycle Number: 23500130

Aeration Time: 12hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.0493 g
Water Weight 4.3395 g
Component Wt. 0.0485 g
Sample Dimensions (cm) 20.3cm², 7.075

Dilution Factor 88.0223
Extraction Time 24hrs
Extraction Temp. room temp
Surface Area 2.87cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no | response | < 21287 | — | 1005 | < 21.2 | < 18666 | < 0.091 |

## Ethylene Oxide

Sample Weight 0.0954 g
Component Wt. 0.0485 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 583691 | 588144 | 585918 | 0.4 | 7170 | 81.7 |
| 2 | 35933 | 36108 | 36021 | 0.2 | 7170 | 5.02 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 86.7ug
Total mg ETO 0.044mg ETO
Dimensions of Sample (cm) 39.3cm², 7.075

Residual (ppm) 909ppm
Surface Area (cm²) 5.55cm²

µg EtO/cm² 15.6ug EtO/cm²

mg EtCh/cm² < 0.032mg EtCh/cm²

Performed by: Lapetti Jimenez

Date: MARCH - 11 - 2015.

Reviewed by: [illegible]

Date: MAR - 11-2015

Set B 12hr1X

CHEM-033C
REV A

COPY

VLOC Size 1 L= 62cm

Sample Analysis Data Sheet

Reorder Code: VLOC N0437
Lot Number: 143640012EER
Cycle Number: Z8500130

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0978 g
Water Weight 5.8195 g
Component Wt. 0.2062 g
Sample Dimensions (cm) 29.4cm; 5.792

Dilution Factor 59.5041
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.08cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 1261 | < 0.260 |

**Ethylene Oxide**

Sample Weight 0.1033 g
Component Wt. 0.2062 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 696445 | 678891 | 687668 | 1.3 | 7170 | 95.9 |
| 2 | 50386 | 49816 | 50101 | 0.6 | 7170 | 6.99 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 103 ug
Total mg ETO 0.206 mg ETO
Dimensions of Sample (cm) 31.1cm; 5.792

Residual (ppm) 997 ppm
Surface Area (cm²) 5.37cm2

µg EtO/cm² 19.2 ug EtO/cm2

mg EtCh/cm² < 0.024 mg EtCh/cm2

Performed by: [signature]
Date: MAR-11-2015

Reviewed by: [signature]
Date: MAR-11-2015

# Aeration Validation

## Set "C"

## Non-Absorbable Product

## Blank Samples

Stratis "Delrin": 0928900102-C

Surgidac Surgiwip Nylon: N4D1724X

V-Loc PBT Reload: 1436400019EER

V-Loc PBT: 1436400013EER

Set C. Blank

CHEM-033D
REV A

COPY

Delrin

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 200001-00 **Aeration Time:** N/A

**Lot Number:** 092890 00102-C **Cycle Number:** N/A

**Sample Weight:** 0.0570g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13572 | — | 7740 | < 1.75 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.75 ug **Residual (ppm):** < 31 ppm

**Total weight of component:** 0.7356g **Total mg ETO:** < 0.023 mg ETO

**Sample Dimensions (cm)** 0.190x0.293x0.288 **Surface Area of Sample (cm²)** 0.971cm²

**µg EtO/cm²:** < 1.80 ug ETO/cm2

**Performed by:** [signature] **Date:** MAR-12-2015

**Reviewed by:** [signature] **Date:** Mar-13-2015

Set C. Blank

CHEM-033D
REV A

COPY

Surgiwip Size O L= 115cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EDW-52 **Aeration Time:** N/A

**Lot Number:** N4D1724X **Cycle Number:** N/A

**Sample Weight:** 0.1748g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13572 | — | 7740 | <1.75 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.75ug **Residual (ppm):** <10ppm

**Total weight of component:** 0.1748g **Total mg ETO:** <0.002mg ETO

**Sample Dimensions (cm)** 115cm; 0.503 **Surface Area of Sample (cm²)** 229cm²

**µg EtO/cm²:** <0.008ug ETO/cm²

**Performed by:** Lizbeth Nunez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

Set C Blank
Plastic

Surgiwip.

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4D1724X

Sample Weight: 0.4394g

Weight of Water: 1.6627g

Component Weight: 3.5134g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2HRS

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <366380 | — | 234000 | < 1.57 | < 2.61 |

Total ETO (mg): < 0.021 mg ETO

PPM: < 6 PPM

Dimensions of Sample (cm) L = 3.726 OD = 0.383

Surface Area ($cm^2$) 4.71 cm2

µg ETO/$cm^2$ < 0.554 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-12-2015

Reviewed by: [illegible] Date: MAR-13-2015

Set C Blank.

Metal.

COPY

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4D1724X

Sample Weight: 0.1255g

Weight of Water: 1.7488g

Component Weight: 7.8428g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 366380 | — | 234000 | < 1.57 | < 2.75 |

Total ETO (mg): < 0.172 mg ETO

PPM: < 22 PPM

Dimensions of Sample (cm) 3.358 OD=0.498 ID=0.422

Surface Area ($cm^2$) 9.82 $cm^2$

µg ETO/$cm^2$ < 0.280 ug ETO/$cm^2$

Performed by: Lupeth Jimenez Date: MAR-12-2015

Reviewed by: [illegible] Date: MAR-13-2015

Set C Blank

CHEM-033D
REV A

COPY

Equal amt of suture for 4 pkgs.
V-LOC Size 0 L= 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN008L **Aeration Time:** N/A

**Lot Number:** 1436400019EER **Cycle Number:** N/A

**Sample Weight:** 0.1959g **Extraction Time:** 10 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13572 | — | 7740 | < 1.75 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.75 µg **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.0478g **Total mg ETO:** < 0.0004 mg ETO

**Sample Dimensions (cm)** 82.0cm; 1.075 **Surface Area of Sample ($cm^2$)** 11.6cm²

**µg EtO/$cm^2$:** < 0.151 ug ETO/cm²

**Performed by:** Lisbeth Jimenez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

Set C Blank.

CHEM-033D
REV A

COPY

V-LOC Size 1 L=62cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0437 **Aeration Time:** —

**Lot Number:** 1436400013EER **Cycle Number:** N/A

**Sample Weight:** 0.1970g **Extraction Time:** 10min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13572 | — | 7740 | < 1.75 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.75 ug **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.1970g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** 62cm, 5.792 **Surface Area of Sample ($cm^2$)** 10.7 $cm^2$

**µg EtO/$cm^2$:** < 0.164 ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MARCH-12-2015

**Reviewed by:** Silia Liia **Date:** March-13-2015

# Aeration Validation

## Set "C"

## Non-Absorbable Product

## 0 Hr. Aeration

Stratis "Delrin": 0928900102-C

Surgidac Surgiwip Nylon: N4D1724X

V-Loc PBT Reload: 1436400019EER

V-Loc PBT: 1436400013EER

Set C 1X Ohr

CHEM-033D
REV A

COPY

Delrin

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 200001-00 Aeration Time: Ohr

Lot Number: 0928900102-C Cycle Number: ZA500136

Sample Weight: 0.1616g Extraction Time: 20min.

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 466225 | 461567 | 463896 | 0.5 | 7740 | 59.9 |
| 2 | 38322 | 38261 | 38292 | 0.1 | 7740 | 4.95 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 64.9ug Residual (ppm): 402ppm

Total weight of component: 0.7362g Total mg ETO: 0.296mg ETO

Sample Dimensions (cm) 0.646 X 0.257 x 0.289 Surface Area of Sample ($cm^2$) 0.854cm2

µg EtO/$cm^2$: 76.0 ug EtO/cm2

Performed by: Lizbeth Nunez Date: MAR-12-2015

Reviewed by: [signature] Date: MAR-13-2015

Set C 1X Ohr

CHEM-033D
REV A

Surgwip Size 0 L=116cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EDW-52 Aeration Time: Ohr

Lot Number: N4D1724X Cycle Number: ZA500136

Sample Weight: 0.1748g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 549571 | 552448 | 551010 | 0.3 | 7740 | 71.2 |
| 2 | 71483 | 69348 | 70416 | 1.5 | 7740 | 9.10 |
| 3 | 20888 | 21709 | 21299 | 1.9 | 7740 | 2.75 |
| | | | | | | |

Total ETO Content: 83.1ug Residual (ppm): 475ppm

Total weight of component: 0.1748g Total mg ETO: 0.083mg ETO

Sample Dimensions (cm) 116cm, 0.503 Surface Area of Sample ($cm^2$) 231cm 2

µg EtO/$cm^2$: 0.360ug EtO/cm2

Performed by: Lizbeth [signature] Date: MAR-12-2015

Reviewed by: [signature] Date: MAR-13-2015

Set C 1x 0hr
Plastic

COPY

Surgiwip
# ETHYLENE OXIDE

CHEM-029B
REV A

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4D1724X

Sample Weight: 0.3472g

Weight of Water: 1.4129g

Component Weight: 3.5134g

Aeration Time: 0hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 7754803 | 7887578 | 7821191 | 0.8 | 234000 | 33.4 | 47.2 |

Total ETO (mg): 0.478 mg ETO

PPM: 136 PPM

Dimensions of Sample (cm) L=3.028 OD=0.388 ID= N/A

Surface Area ($cm^2$) 3.93 $cm^2$

µg ETO/$cm^2$ 12.0 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-12-2015

Reviewed by: [illegible] Date: MAR-13-2015

Set C 1x 0hr
Metal

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4D1724X

Sample Weight: 0.9500g

Weight of Water: 1.7952g

Component Weight: 7.8428g

Aeration Time: 0hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | LJJ MAR 12 2015 < ~~7.8428~~ 366380 | — | 2340000 | < 1.57 | < 2.82 |

Total ETO (mg): < 0.023 mg ETO

PPM: < 3PPM

Dimensions of Sample (cm) L=2.859 OD=0.495 ID=0.428

Surface Area ($cm^2$) 8.39 $cm^2$

µg ETO/$cm^2$ < 0.336 ug ETO/$cm^2$

Performed by: Lizbeth A. Jimenez Date: MARCH - 12 - 2015

Reviewed by: [illegible] Date: MAR - 13 - 2015

Set C 1x 0hr

CHEM-033D
REV A

Equal amt of suture for 4 pkgs

COPY

VLOC Size = 0 L = 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCN0081 **Aeration Time:** 0hr

**Lot Number:** 1436400019EER **Cycle Number:** 2A500136

**Sample Weight:** 0.1964g **Extraction Time:** 20min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2985085 | 2920342 | 2952714 | 1.1 | 7740 | 381 |
| 2 | 191339 | 187643 | 189491 | 1.0 | 7740 | 24.5 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 406 ug **Residual (ppm):** 2067ppm

**Total weight of component:** 0.0500g **Total mg ETO:** 0.103mgETO

**Sample Dimensions (cm)** 7.8cm; 7.075 **Surface Area of Sample ($cm^2$)** 11.1cm2

**µg EtO/$cm^2$:** 36.6 ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

Set C. IX. Ohr

CHEM-033D
REV A

COPY

V-LOC Size 1 L=62cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCN0437 Aeration Time: Ohr

Lot Number: 1436400013EER Cycle Number: ZA500136

Sample Weight: 0.2054g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2771352 | 2775230 | 2773291 | 0.1 | 7740 | 358 |
| 2 | 168524 | 172362 | 170443 | 1.1 | 7740 | 22.0 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 380ug Residual (ppm): 1850ppm

Total weight of component: 0.2054g Total mg ETO: 0.380mg ETO

Sample Dimensions (cm) 62cm; 5.792 Surface Area of Sample ($cm^2$) 10.7cm2

µg EtO/$cm^2$: 35.5 µg EtO/cm2

Performed by: Lizbeth Nimarey Date: MAR-12-2015

Reviewed by: [signature] Date: MAR-13-2015

# Aeration Validation

## Set "C"

## Non-Absorbable Product

## 6 Hr. Aeration

Stratis "Delrin": 0928900102-C

Surgidac Surgiwip Nylon: N4D1724X

V-Loc PBT Reload: 1436400019EER

V-Loc PBT: 1436400013EER

Set C 1x6hr

CHEM-033D
REV A

COPY

Delrin

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 200001-00 **Aeration Time:** 6hr

**Lot Number:** 0928900102-C **Cycle Number:** ZA500136

**Sample Weight:** 0.0838g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 235351 | 235579 | 235465 | 0.05 | 7740 | 30.4 |
| 2 | 36745 | 36936 | 36841 | 0.3 | 7740 | 4.76 |
| 3 | 17971 | 17918 | 17945 | 0.1 | 7740 | 2.32 |
| | | | | | | |

**Total ETO Content:** 37.5ug **Residual (ppm):** 447ppm

**Total weight of component:** 0.7353g **Total mg ETO:** 0.329mg ETO

**Sample Dimensions (cm)** 0.748x0.326x0.256 **Surface Area of Sample ($cm^2$)** 1.04cm2

**µg EtO/$cm^2$:** 36.1ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

Set C 1X 6hr

CHEM-033D
REV A

Surgiwip Size O L= 116cm

Sutere COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EDW-52 Aeration Time: 6hr

Lot Number: N4D1724X Cycle Number: ZA500136

Sample Weight: 0.1752g Extraction Time: 30min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 274174 | 276985 | 275580 | 0.5 | 7740 | 35.6 |
| 2 | 44874 | 44934 | 44904 | 0.1 | 7740 | 5.80 |
| 3 | 15528 | 15444 | 15486 | 0.3 | 7740 | 2.00 |
| | | | | | | |

Total ETO Content: 43.4ug Residual (ppm): 248ppm

Total weight of component: 0.1752g Total mg ETO: 0.043mg ETO

Sample Dimensions (cm) 116cm; 0.503 Surface Area of Sample ($cm^2$) 231cm2

µg EtO/$cm^2$: 0.188ug EtO/cm2

Performed by: Lizbeth Nimenez Date: MAR-12-2015

Reviewed by: [signature] Date: MAR-13-2015

Set C 1x 6hr
Plastic

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Aeration Time: 6hr

Lot No.: N4D1724X

Cycle No.: Z1500136

Sample Weight: 0.3810g

Extraction Time: 2hr

Weight of Water: 1.5027g

Extraction Temp.: 37C

Component Weight: 3.5134g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 6411565 | 6382125 | 6396845 | 0.2 | 234000 | 27.3 | 41.0 |

Total ETO (mg): 0.378 mg ETO

PPM: 108 PPM

Dimensions of Sample (cm) L= 3.222 OD= 0.391

Surface Area ($cm^2$) 4.20cm2

µg ETO/$cm^2$ 9.76ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-12-2015

Reviewed by: [illegible] Date: MAR-13-2015

Set C 1X 6hr

Metal

Surgiwip

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EDW-52

Lot No.: N4D1724X

Sample Weight: 0.9808g

Weight of Water: 2.0908g

Component Weight: 7.8428g

Aeration Time: 6hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <361380 | — | | 234000 | < 1.57 | < 3.28 |

Total ETO (mg): < 0.026 mg ETO

PPM: < 3PPM

Dimensions of Sample (cm) L=2.921 OD= 0.497 ID= 0.455

Surface Area ($cm^2$) 8.64cm2

µg ETO/$cm^2$ < 0.380ug ETO/cm2

Performed by: [signature] Date: MAR-12-2015

Reviewed by: [signature] Date: MAR-13-2015

Set C 1X 6hr

CHEM-033D
REV A

COPY

Equal amt of suture for 4 pkgs.
V LOC Size: 0. L=20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** V LOC N0081 **Aeration Time:** 6hr

**Lot Number:** 14364 00019EER **Cycle Number:** Z15000136

**Sample Weight:** 0.1935g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1714436 | 1698010 | 1706223 | 0.5 | 7740 | 220 |
| 2 | 136203 | 135761 | 135982 | 0.2 | 7740 | 17.6 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 238 ug **Residual (ppm):** 1230ppm

**Total weight of component:** 0.0495g **Total mg ETO:** 0.061 mg ETO

**Sample Dimensions (cm)** 78.2cm; 1.075 **Surface Area of Sample ($cm^2$)** 11.1 $cm^2$

**µg EtO/$cm^2$:** 21.4 ug ETO/$cm^2$

**Performed by:** Lizbeth Jimenez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

Set C 1x 6hr

CHEM-033D
REV A

COPY

V-LOC Size 1 L= 62cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCN0437 **Aeration Time:** 6hr

**Lot Number:** 143164 00013EFR **Cycle Number:** EA500136

**Sample Weight:** 0.1995g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1779904 | 1789387 | 1784646 | 0.3 | 7740 | 231 |
| 2 | 121920 | 120994 | 121457 | 0.4 | 7740 | 15.7 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 247 ug **Residual (ppm):** 1238 ppm

**Total weight of component:** 0.1995 g **Total mg ETO:** 0.247 mg ETO

**Sample Dimensions (cm)** 62cm; 5.792 **Surface Area of Sample ($cm^2$)** 10.7cm2

**µg EtO/$cm^2$:** 23.1 ug EtO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-12-2015

**Reviewed by:** [illegible] **Date:** MAR-13-2015

# Aeration Validation

## Set "C"

## Non-Absorbable Product

## 12 Hr. Aeration

Stratis "Delrin": 0928900102-C

Surgidac Surgiwip Nylon: N4D1724X

V-Loc PBT Reload: 1436400019EER

V-Loc PBT: 1436400013EER

Set C 1x 12hr

CHEM-033C
REV A

COPY

Delrin

Sample Analysis Data Sheet

Reorder Code: 200001-00
Lot Number: 0928900102-C
Cycle Number: ZA500136

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1145 g
Water Weight 0.9313 g
Component Wt. 0.7351 g
Sample Dimensions (cm) 0.766x0.414x0.258

Dilution Factor 8.1336
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 1.24cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <21287 | — | 1005 | <21.2 | <172 | <0.127 |

**Ethylene Oxide**

Sample Weight 0.0581 g
Component Wt. 0.7351 g

Extraction Time 30min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 173011 | 172179 | 172595 | 0.2 | 7740 | 22.3 |
| 2 | 41407 | 41601 | 41504 | 0.2 | 7740 | 5.36 |
| 3 | 15411 | 15429 | 15420 | 0.1 | 7740 | 1.99 |
| | | | | | | |

Total ETO content (µg) 29.7ug
Total mg ETO 0.376 mg ETO
Dimensions of Sample (cm) 0.679x0.280x0.294

Residual (ppm) 511ppm
Surface Area (cm²) 0.944cm2

µg EtO/cm² 31.5ug EtO/cm2

mg EtCh/cm² < 0.016mg EtCh/cm2

Performed by: Lupe [signature]
Date: MAR-13-2015

Reviewed by: [signature]
Date: Mar 13, 2015

set C 1X12hr

CHEM-033C
REV A

COPY Sutre

Surgiwip size 0 L= 117cm

Sample Analysis Data Sheet

Reorder Code: EDW-52
Lot Number: N4D1724X
Cycle Number: ZA500136

Aeration Time: 12 Hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1744 g
Water Weight 4.9445 g
Component Wt. 0.1744 g
Sample Dimensions (cm) 117cm; 0.503

Dilution Factor 28.3515
Extraction Time 24hr
Extraction Temp. room temp.
Surface Area 233cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <21287 | — | 1005 | <21.2 | <601 | <0.105 |

## Ethylene Oxide

Sample Weight 0.1744 g
Component Wt. 0.1744 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 141388 | 142660 | 142024 | 0.4 | 7740 | 18.3 |
| 2 | 50957 | 50736 | 50847 | 0.2 | 7740 | 6.57 |
| 3 | 12375 | 12199 | 12287 | 0.7 | 7740 | 1.59 |
| | | | | | | |

Total ETO content (µg) 26.5 µg
Total mg ETO 0.027 mg ETO
Dimensions of Sample (cm) 117cm; 0.503

µg EtO/cm² 0.114 µg EtO/cm2

Residual (ppm) 152 ppm

Surface Area (cm²) 233cm2

mg EtCh/cm² < 0.~~0004~~ 0005 mg EtCh/cm2 UC 3-13-15

Performed by: Lizbeth Jimenez

Date: MAR-13-2015

Reviewed by: Jade Cruz

Date: Mar 13, 2015

Set C 1X 12hr

COPY

Plastic

CHEM-029C
REV A

Surgiwip

# Sample Analysis Data Sheet

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: N4D1724X Aeration Conditions: ≈105°F

Cycle Number: Z15000136 Extraction Time: 2hr

Component Weight: 3.5134g Extraction Temp. 37C

Sample Weight: 0.4536g Water Weight: 1.6872g

## Ethylene Chlorohydrin

Dilution Factor: 3.7196

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | < 21287 | — | 1005 | < 21.2 | < 79 | < 0.277 |

## Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 5454867 | 5303795 | 5379331 | 1.4 | 234000 | 23.0 | 38.8 | 86 |

Total mg ETO: 0.301 mg ETO

Dimensions of Sample L = 3.801 OD = 0.388 Surface Area ($cm^2$) 4.87 $cm^2$

µg ETO/ $cm^2$ 7.97 ug ETO/$cm^2$ mg EtCh/ $cm^2$ < 0.007 mg EtCh/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-12-2015

Reviewed by: Lori Cano Date: Mar 13, 2015

Set C1X 12hr

CHEM-029C
REV A

Metal

COPY

Surgwip

**Sample Analysis Data Sheet**

Reorder Code: EDW-52 Aeration Time: 12hr

Lot Number: NHD1724X Aeration Conditions: ≈105°F

Cycle Number: Z1500136 Extraction Time: 2hr

Component Weight: 7.8428g Extraction Temp. 37c

Sample Weight: 1.0083g Water Weight: 1.4628g

**Ethylene Chlorohydrin**

Dilution Factor: 1.4508

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 31 | < 0.241 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | <366380 | — | 234000 | < 1.57 | < 2.30 | < 2 |

Total mg ETO: < 0.018 mg ETO

Dimensions of Sample L= 3.034 OD=0.494 ID=0.432 Surface Area ($cm^2$) 8.92 $cm^2$

µg ETO/ $cm^2$ < 0.258 ug ETO/cm2 mg EtCh/ $cm^2$ < 0.003 mg EtCh/cm2

Performed by: Lizbeth Jimenez Date: MAR-12-2015

Reviewed by: Jack Cruz Date: Mar 13, 2015

Set C 1X 12hr

Equal amt of suture for 2pkgs.

CHEM-033C
REV A

Reload

COPY

V-LOC Size 0 L=20cm

Sample Analysis Data Sheet

Reorder Code: VLOCN0081 Aeration Time: 12hr
Lot Number: 14364C0019FER Aeration Conditions: ~105F
Cycle Number: ZA500136

**Ethylene Chlorohydrin**

Sample Weight 0.0959 g
Water Weight 5.0359 g
Component Wt. 0.0494 g
Sample Dimensions (cm) 38.8cm², 7.075

Dilution Factor 52.5120
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.48cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | < 21287 | — | 1005 | < 21.2 | < 1113 | < 0.056 | |

**Ethylene Oxide**

Sample Weight 0.0974 g
Component Wt. 0.0494 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 553047 | 542990 | 548019 | 0.9 | 7740 | 70.8 |
| 2 | 56979 | 57550 | 57265 | 0.5 | 7740 | 7.40 |
| 3 | 10626 | 9878 | 10252 | 3.6 | 7740 | 1.32 |
| | | | | | | |

Total ETO content (µg) 79.5ug
Total mg ETO 0.040 mg ETO
Dimensions of Sample (cm) 39.4cm², 7.075

Residual (ppm) 816ppm

Surface Area (cm²) 5.57cm²

µg EtO/cm² 14.3ug EtO/cm²

mg EtCh/cm² < ~~0.203~~ 00195 mg EtCh/cm²
JC 3-13-15

Performed by: Lizbeth Jimenez

Date: MAR-13-2015

Reviewed by: Joan Cruz

Date: Mar 13, 2015

Set C 1x 12hr

COPY

CHEM-033C
REV A

V LOC Size 1 L= 62cm

Sample Analysis Data Sheet

Reorder Code: VLOCN0437
Lot Number: 1436400013EER
Cycle Number: ZA500136

Aeration Time: 12hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.2002 g
Water Weight 5.6845 g
Component Wt. 0.2002 g
Sample Dimensions (cm) 62cm; 5.792

Dilution Factor 28.3941
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 10.7 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 21287 | — | 1005 | < 21.2 | < 602 | < 0.121 |

**Ethylene Oxide**

Sample Weight 0.1988 g
Component Wt. 0.1988 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1003636 | 1036960 | 1020298 | 1.6 | 7740 | 132 |
| 2 | 230393 | 231928 | 231161 | 0.3 | 7740 | 29.9 |
| 3 | 19616 | 19910 | 19763 | 0.7 | 7740 | 2.55 |
| | | | | | | |

Total ETO content (µg) 164µg
Total mg ETO 0.164 mg ETO
Dimensions of Sample (cm) 62cm; 5.792

µg EtO/cm² 15.3 µg EtO/cm²

Residual (ppm) 825ppm
Surface Area (cm²) 10.7cm²
mg EtCh/cm² < 0.011 mgEtCh/cm²

Performed by: Lizbeth [signature]
Date: MAR-13-2015

Reviewed by: [signature]
Date: Mar 13, 2015

## Aeration Validation

## Set "A"

## Absorbable Product

## Blank Samples

V-Loc 90: 1436400005EER

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Polysorb: 1436400023EER

AbsorbaTack: 1429600001EER

Laproclip: 1429600004EER

Poly Roticulator: 150090003EER

Meniscal Stapler: 1426500010EER

Suture Anchor: 1502600002EER

Poly GIA: 1500900012EER

SPSP 55: 1502600005EER

Reinforced Reload: 1431600003EER

ReliaTack: 1432400003EER

Set A Blank

CHEM-033D
REV A

Equal amt of suture for 2 pkgs
V-LOC 90 Size 2-0 L=58cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC M0135 **Aeration Time:** —

**Lot Number:** 1436400005EER **Cycle Number:** n/a

**Sample Weight:** 0.1921g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9674 | — | 6890 | <1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.40 ug **Residual (ppm):** < 7 ppm

**Total weight of component:** 0.1483g **Total mg ETO:** < 0.001mg ETO

**Sample Dimensions (cm)** 75.1cm², 8.492 **Surface Area of Sample (cm²)** 8.84cm²

**µg EtO/cm²:** < 0.158ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-11-2015

**Reviewed by:** [illegible] **Date:** Mar 11, 2015

Set A Blank

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L= 60.5cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCL0536 **Aeration Time:** —

**Lot Number:** 1436400008EER **Cycle Number:** n/a

**Sample Weight:** 0.1743g **Extraction Time:** 10 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9674 | — | 6890 | < 1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.40ug **Residual (ppm):** < 8 ppm

**Total weight of component:** 0.2133g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** ~~0.2~~ L=60.5 ; 7.075 LJJ MAR-11-2015 **Surface Area of Sample (cm²)** 8.55cm²

**µg EtO/cm²:** < 0.164ug ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-11-2015

Reviewed by: Sara Cruz Date: Mar 11, 2015

Set A Blank

Reload Equal amt of suture for 3pkgs

V-LOC 180 Size 0 L=21cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCA008L Aeration Time: ~~0~~ —

Lot Number: 14364 00014EER Cycle Number: n/a

Sample Weight: 0.2224g Extraction Time: 10min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| ~~1~~ | ~~no response~~ | | ~~< 21287~~ | ~~—~~ | ~~< 21.2~~ | ~~<~~ [illegible] MAR-11-2015 |
| 1 | no response | | < 9674 | — | 6890 | < 1.40 |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.40ug Residual (ppm): < 6 ppm

Total weight of component: 0.0746g Total mg ETO: < 0.0005mg ETO

Sample Dimensions (cm) 62.6 ; 7.075 Surface Area of Sample ($cm^2$) 8.85cm²

µg EtO/$cm^2$: < 0.158ug EtO/cm2

Performed by: [signature] Date: MAR-11-2015

Reviewed by: [signature] Date: Mar 11, 2015

Set A Blank

CHEM-033D
REV A

COPY

Maxon Size 1 L= 91cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 88866216971 **Aeration Time:** —

**Lot Number:** 1436400020EEK **Cycle Number:** —

**Sample Weight:** 0.1971g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9674 | — | 6890 | < 1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.40ug **Residual (ppm):** < 7ppm

**Total weight of component:** 0.3154g **Total mg ETO:** < 0.002mg ETO

**Sample Dimensions (cm)** 91cm ; 7.075 **Surface Area of Sample ($cm^2$)** 12.9cm 2

**µg EtO/$cm^2$:** < 0.109 ug EtO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-11-2015

**Reviewed by:** Lodi Cruz **Date:** Mar 12, 2015

Set A Blank

COPY

Equal amt of suture per 2 pkgs
Poly scrb 2-0 L= 78cm

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** —

**Lot Number:** 1436400023EER **Cycle Number:** n/a

**Sample Weight:** 0.2247g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9674 | — | 6890 | < 1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.40ug **Residual (ppm):** < 6ppm

**Total weight of component:** 0.1109g **Total mg ETO:** < 0.0007mg ETO

**Sample Dimensions (cm)** 158 ; 0.386 **Surface Area of Sample (cm²)** 409cm2

**µg EtO/cm²:** < 0.003ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-11-2015

**Reviewed by:** Jon Cisco **Date:** Mar 12, 2015

Set A Blank

Tacks

AbsorbaTack

CHEM-033D
REV A

# Ethylene Oxide Sample Analysis Data Sheet

COPY

Reorder Code: ABSTACK30 Aeration Time: N/A

Lot Number: 1429600001EER Cycle Number: N/A

Sample Weight: 0.1263g Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13227 | — | 7630 | < 1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73ug Residual (ppm): < 14ppm

Total weight of component: 0.7634g Total mg ETO: ~~< 0.010mg ETO~~ <0.0105 SO MAR-20-2015

Sample Dimensions (cm) 5(0.596cm²) Surface Area of Sample (cm²) 2.98cm²

µg EtO/cm²: < 0.581 ug EtO/cm²

Performed by: Lizbeth Numeneg Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank
Shaft

AbsorbaTack

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

COPY

Reorder Code: ABSTACK30

Lot No.: 1429600001EFR

Sample Weight: 1.7206g

Weight of Water: 7.5339g

Component Weight: 10.5591g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | < 330023 | — | | 238000 | < 1.39 | < 10.5 |

0.0644 so mar-20-2015

Total ETO (mg): < ~~0.064~~ mg ETO

PPM: < 6 PPM

Dimensions of Sample (cm) L = 3.172 OD = 0.552 ID = 0.377

Surface Area ($cm^2$) 9.51 $cm^2$

µg ETO/$cm^2$ < 1.10 µg ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank

CHEM-033D
REV A

Lapr-Clip 12mm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886848812 Aeration Time: /

Lot Number: 14296 00004EER Cycle Number: N/A

Sample Weight: 0.1553 g Extraction Time: 10min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13227 | / | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73 ug Residual (ppm): <11 ppm

Total weight of component: 0.1553g Total mg ETO: < ~~0.002~~ 0.00173 mg ETO SO MAR-20-2015

Sample Dimensions (cm) ~~1.626x0.475x0.222~~ LJJ MAR-18-2015 Surface Area of Sample ($cm^2$) 1.86cm² 1.86cm²

µg EtO/$cm^2$: < 0.930 ug ETO/cm²

Performed by: [signature] Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A Blank Clamp

Roticulater 55 Poly Stapler with Polysorb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 150090003EER

Sample Weight: 116.477g

Weight of Water: 100.931 g

Component Weight: 116.477g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <3330023 | — | 238000 | < 1.39 | < 140 |

Total ETO (mg): < 0.140 mg ETO

PPM: < 1 PPM

Dimensions of Sample (cm) 8.062x3.314x1.474; 7.769x1.726x1.149

Surface Area ($cm^2$) 136cm2

µg ETO/$cm^2$ < 1.03 ug ETO/cm2

Performed by: [signature] Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A Blank

Staples

CHEM-033D
REV A

COPY

Roticulator 55 Poly
Stapler with Polysorb Staples

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 013601 Aeration Time: —

Lot Number: 15009 00003EER Cycle Number: N/A

Sample Weight: 0.0886g Extraction Time: 10min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13227 | — | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73 µg Residual (ppm): < 20ppm

Total weight of component: 0.4517g Total mg ETO: < ~~0.009~~ 0.00882 mg ETO So MAR-20-2015

Sample Dimensions (cm) 3( 0.946cm²) Surface Area of Sample (cm²) 2.84cm²

µg EtO/cm²: < 0.609 µg EtO/cm²

Performed by: Lizbeth Jiménez Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: —

Lot No.: 14265000 10EER

Cycle No.: N/A

Sample Weight: 1.7073g

Extraction Time: 2hr

Weight of Water: 6.2217g

Extraction Temp.: 37C

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <330023 | — | 238000 | < 1.39 | < 8.65 |

Total ETO (mg): < ~~0.037~~ 0.0374 mg ETO so MAR-20-2015

PPM: < 5 PPM

Dimensions of Sample (cm) 2.933x0.551x0.236

Surface Area ($cm^2$) 4.88 $cm^2$

µg ETO/$cm^2$ < 1.77 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A Blank

Stapk

COPY

CHEM-033D
REV A

Polysorb Meniscal Staples

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 160510 Aeration Time: —

Lot Number: 1426500010EER Cycle Number: N/A

Sample Weight: 0.0243g Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13227 | — | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.73 µg Residual (ppm): <71 ppm

Total weight of component: 0.0243g Total mg ETO: < ~~0.002~~ 0.00173 mg ETO so MAR-20-2015

Sample Dimensions (cm) 0.826 cm² Surface Area of Sample (cm²) 0.826 cm²

µg EtO/cm²: < 2.09 µg EtO/cm²

Performed by: Lizbeth Nunenez Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A Blank
Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 273026

Lot No.: 150260002EER

Sample Weight: 3.66663g

Weight of Water: 8.8394g

Component Weight: 12.4645g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 330023 | — | 238000 | < 1.39 | < 12.3 |

Total ETO (mg): < ~~0.042~~ 0.0418 mg ETO so MAR-20-2015

PPM: < 3 PPM

Dimensions of Sample (cm) L = 4.368 OD = 0.482

Surface Area ($cm^2$) 6.98 $cm^2$

µg ETO/$cm^2$ < 1.76 µg ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank
Suture

Ti-cron 2-0 L = 90cm

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 273026 Aeration Time: —

Lot Number: 150226000002EER Cycle Number: N/A

Sample Weight: 0.1859g Extraction Time: 10min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13227 | — | 7630 | < 1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73 µg Residual (ppm): < 9 ppm

Total weight of component: 0.2730g Total mg ETO: ~~< 0.025~~ < 0.00254 mg ETO so MAR-20-2015

Sample Dimensions (cm) 61.3 ; 0.693 Surface Area of Sample ($cm^2$) 88.5cm²

µg EtO/$cm^2$: ~~< 0.020~~ < 0.0195 µg EtO/cm² so MAR-20-2015

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank

Staple / Anchor

COPY

CHEM-033D
REV A

Polyscrb Soft Tissue Anchor

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 273026 Aeration Time: —

Lot Number: 150216 00002 EER Cycle Number: N/A

Sample Weight: 0.0607 g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13227 | — | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73 µg Residual (ppm): < 29 ppm

Total weight of component: 0.0607 g Total mg ETO: ~~< 0.002 mg ETO~~ <0.00173 SOMAR-21-2015

Sample Dimensions (cm) 1.975 cm² Surface Area of Sample (cm²) 1.975 cm²

µg EtO/cm²: < 0.876 µg EtO/cm²

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A Blank

Clamp

Shaft + Cartridge

COPY

Poly G1A

Stapler with Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 150090012EER

Sample Weight: 62.810g

Weight of Water: 111.137g

Component Weight: 62.810g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <330023 | — | 238000 | < 1.39 | < 154 |

Total ETO (mg): < 0.154 mg ETO

PPM: < 2 PPM

Dimensions of Sample (cm) 2(~~L = 9cm OD =~~ 9.088x 1.158x 0.924) LJS MAR.18.2015

Surface Area (cm²) (40.0cm²)2 = 80.0cm²

µg ETO/cm² < 1.93 µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank.

Staples

Poly G1A

Stapler with Polyscrip Staples

CHEM-033D
REV A

# Ethylene Oxide Sample Analysis Data Sheet

COPY

Reorder Code: 030775 Aeration Time: —

Lot Number: 1500900012EER Cycle Number: N/A

Sample Weight: 0.0578 g Extraction Time: 10 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13227 | — | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.73 ug Residual (ppm): < 30 ppm 0.0194 SO MAR-20-2015

Total weight of component: 0.6492 g Total mg ETO: ~~< 0.019 mg ETO~~

Sample Dimensions (cm) 5( 0.513 cm²) Surface Area of Sample (cm²) 2.57 cm²

µg EtO/cm²: < 0.673 ug ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank

Shaft / clamp

Premium Polyscrb
Loading Unit with Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

COPY

Reorder Code: 0135072

Lot No.: 15026 00005EEB

Sample Weight: 30.691 g

Weight of Water: 103.152g

Component Weight: 30.691g

Aeration Time: —

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | < 330023 | — | 238000 | < 1.39 | < 143 |

Total ETO (mg): < 0.143mg ETO

PPM: < 5 PPM

Dimensions of Sample (cm) 6.890x2.584x0.774; 7.264x0.905x0.7768

Surface Area ($cm^2$) 50.3+26.7 = 77.0cm²

µg ETO/$cm^2$ < 1.86 µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-18-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A Blank
Staples

CHEM-033D
REV A

Premium Polysorb
Loading Unit with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** 013507L **Aeration Time:** —

**Lot Number:** 1502L600005EER **Cycle Number:** N/A

**Sample Weight:** 0.1108g **Extraction Time:** 10 mins.

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < ~~13227~~ 13227 SO mar-20-2015 | — | 7630 | < 1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.73 µg **Residual (ppm):** < 116ppm

**Total weight of component:** 0.4185g **Total mg ETO:** < ~~0.007~~ 0.00653 mg ETO SO mar-20-2015

**Sample Dimensions (cm)** 5 ( 0.732 cm² ) **Surface Area of Sample (cm²)** 3.66 cm²

**µg EtO/cm²:** < 0.473 µg EtO/cm²

**Performed by:** [signature] **Date:** mar-18-2015

**Reviewed by:** [signature] **Date:** mar-20-2015

Set A Blank Shaft /Cartridge

Endo GIA Reinforced Medium /Thick Reload With Tri-Staple Technology

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT

Lot No.: 1431600003EER

Sample Weight: 33.498g

Weight of Water: 120.547g

Component Weight: 33.498g

Aeration Time: —

Cycle No.: n/a

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 461461 | — | 254000) | < 1.82 | < 219 |

Total ETO (mg): < 0.219 mg ETO

PPM: < 7 PPM

Dimensions of Sample (cm) L=11cm OD=1.134

Surface Area ($cm^2$) 41.2cm2

µg ETO/$cm^2$ < 5.32 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-11-2015

Reviewed by: Jodi Cruz Date: Mar 12, 2015

Set A Blank

Buttress

Endo GIA
Reinforced Medium / Thick
Reload with Tri-Staple Technology

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** EGIATRS60AMT **Aeration Time:** —

**Lot Number:** 1431600003EER **Cycle Number:** n/a

**Sample Weight:** 0.0776g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9674 | — | 6890 | <1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.40ug **Residual (ppm):** < 18ppm

**Total weight of component:** 0.0776g **Total mg ETO:** < 0.001 mg ETO

**Sample Dimensions (cm)** 2(7.570x1.019x0.008) **Surface Area of Sample (cm²)** 29.4cm 2

**µg EtO/cm²:** < 0.048ug ETO/cm 2

**Performed by:** Lizbeth Nimeng **Date:** MAR-11-2015

**Reviewed by:** Jon Cino **Date:** Mar 12, 2015

Set A Blank

Staples

EndoGIA
Reinforced Medium / Thick
Reload with Tri-Staple Technology

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** EG1ATRS60AMT **Aeration Time:** —

**Lot Number:** 14316000003EER **Cycle Number:** n/a

**Sample Weight:** 0.1437 g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <9674 | — | 6890 | <1.40 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.40 ug **Residual (ppm):** < 10ppm

**Total weight of component:** 0.1437g **Total mg ETO:** < 0.001 mg ETO

**Sample Dimensions (cm)** 90staples, 0.0515 **Surface Area of Sample (cm²)** 5.18cm²

**µg EtO/cm²:** < 0.270ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-11-2015

**Reviewed by:** Lorie Cinco **Date:** Mar 11, 2015

Set A Blank

ReliaTack

Shaft.

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Aeration Time: —

Lot No.: 1432400003EER

Cycle No.: N/A

Sample Weight: 1.8720g

Extraction Time: 2hr

Weight of Water: 7.7765g

Extraction Temp.: 37C

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <330023 | — | 238000 | < 1.39 | < 10.8 |

Total ETO (mg): < 0.0218mg ETO

PPM: < 6 PPM

Dimensions of Sample (cm) L = 3.388 OD=0.547 ID= 0.368

Surface Area ($cm^2$) 10.0 $cm^2$

µg ETO/$cm^2$ < 1.08 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A Blank

Tacks

CHEM-033D
REV A

COPY

ReliaTack

Articulating Reloadable Fixation Device

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: RELTACK3X10 Aeration Time: —

Lot Number: 1432400003EER Cycle Number: N/A

Sample Weight: 0.1278 g Extraction Time: 10min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13227 | — | 7630 | <1.73 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.73 µg Residual (ppm): <14ppm

Total weight of component: 0.2555 g Total mg ETO: < ~~0.003~~ 0.00346 mg ETO SO MAR-20-2015

Sample Dimensions (cm) 5(0.596 cm²) Surface Area of Sample (cm²) 2.98 cm²

µg EtO/cm²: < 0.581 µg EtO/cm²

Performed by: [signature] Date: MAR-18-2015

Reviewed by: [signature] Date: MAR-20-2015

# Aeration Validation

## Set "A"

## Absorbable Product

## 0 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Polysorb: 1436400023EER

AbsorbaTack: 1429600001EER

Laproclip: 1429600004EER

Poly Roticulator: 150090003EER

Meniscal Stapler: 1426500010EER

Suture Anchor: 1502600002EER

Poly GIA: 1500900012EER

SPSP 55: 1502600005EER

Reinforced Reload: 1431600003EER

ReliaTack: 1432400003EER

Set A 1x 0hr

CHEM-033D
REV A

COPY

Maxon Size 1 L= 91.5cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 8886626971 **Aeration Time:** 0 hr

**Lot Number:** 1436400020EER **Cycle Number:** ZA500129

**Sample Weight:** 0.2036g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 7375.979 | 7351.281 | 7363.63 | 0.2 | 34.7 | 212 |
| 2 | 431.027 | 420.384 | 425.706 | 1.2 | 34.7 | 12.3 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 224 µg **Residual (ppm):** 1100 ppm

**Total weight of component:** 0.3181g **Total mg ETO:** 0.350 mg

**Sample Dimensions (cm)** 58.6cm 7.075 **Surface Area of Sample (cm²)** 8.28 cm²

**µg EtO/cm²:** 27.1 µg/cm²

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR - 12-2015

Set A · 1X 0hr

Reload

Equal amt of suture for 3pkgs
V-LOC 180 Size 0 L=21cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA008L **Aeration Time:** 0hr

**Lot Number:** 14364000 14EEK **Cycle Number:** ZA500129

**Sample Weight:** 0.1950g **Extraction Time:** 30 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 6451.760 | 6684.994 | 6568.377 | 1.8 | 34.7 | 189 |
| 2 | 715.603 | 670.997 | 693.30 | 3.2 | 34.7 | 20.0 |
| 3 | 59.0441 | 61.5733 | 59.3087 | 3.8 | 34.7 | 1.71 |
| | | | | | | |

**Total ETO Content:** 211 **Residual (ppm):** 1082 ppm

**Total weight of component:** 0.0772 **Total mg ETO:** 0.084 mg

**Sample Dimensions (cm)** 53.0 7.075 **Surface Area of Sample ($cm^2$)** 7.49 $cm^2$

**µg EtO/$cm^2$:** 28.2 ug/$cm^2$

**Performed by:** Lea Cenes **Date:** Mar 11, 2015

**Reviewed by:** Lizbeth Nunez **Date:** MAR-12-2015

Set A 1X Ohr

Equal amt of suture for 2pkgs

CHEM-033D
REV A

V-LOC 180 Size 0 L= 60cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCL0536 **Aeration Time:** Ohr

**Lot Number:** 1436400008EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1857g **Extraction Time:** 20 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 6586.148 | 6574.848 | 6580.498 | 0.1 | 34.7 | 190 |
| 2 | 385.006 | 397.442 | 391.224 | 1.6 | 34.7 | 11.3 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 201 µg **Residual (ppm):** 1082 ppm

**Total weight of component:** 0.2138g **Total mg ETO:** 0.231 mg

**Sample Dimensions (cm)** 52cm/7.015 **Surface Area of Sample ($cm^2$)** 7.35 $cm^2$

**µg EtO/$cm^2$:** 27.3 µg/$cm^2$

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR-12-2015

Set A 1X 0hr

CHEM-033D
REV A

Equal amt of Suture per 2pkgs
V-LOC 90 Size 2-0 L=57cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCM0135 **Aeration Time:** 0hr

**Lot Number:** 1436400005EER **Cycle Number:** Z1500129

**Sample Weight:** 0.1918g **Extraction Time:** 20 min

**Extraction Temp:** 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 5905.347 | 5738.575 | 5821.961 | 1.4 | 34.7 | 168 |
| 2 | 388.158 | 377.477 | 382.818 | 1.4 | 34.7 | 11.0 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 179 ug **Residual (ppm):** 933 ppm

**Total weight of component:** 0.1481g **Total mg ETO:** ~~0.144~~ 0.138 mg
LJ MAR.12.2015

**Sample Dimensions (cm)** L= 73.8cm/8.497 **Surface Area of Sample (cm²)** 8.69 cm²

**µg EtO/cm²:** 20.6 ug/cm²

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR-12-2015

Set A 1X 0hr

Equal amt of suture for 2pkgs

Polysorb Size 2-0 L=77cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** L43 **Aeration Time:** 0 hr

**Lot Number:** 1436400023EER **Cycle Number:** ZA500129

**Sample Weight:** 0.2213g **Extraction Time:** 20 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 4568.451 | 4602.851 | 4585.651 | 0.4 | 34.7 | 132 |
| 2 | 416.53 | 420.843 | 418.69 | 0.5 | 34.7 | 12.1 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 144 µg **Residual (ppm):** 651 ppm

**Total weight of component:** 0.1103g **Total mg ETO:** 0.072 mg

**Sample Dimensions (cm)** L=154/0.3859 **Surface Area of Sample (cm²)** 399 cm²

**µg EtO/cm²:** 0.361 µg/cm²

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR-12-2015

Set A 1x 0hr

TACKS

AbsorbaTack

CHEM-033D
REV A

COPY

Fixation Device

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: ABSTACK30 Aeration Time: 0hr

Lot Number: 1429600001EER Cycle Number: ZA500129

Sample Weight: 0.1272g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 838808 | 831379 | 835094 | 0.4 | 7900 | 106 |
| 2 | 32453 | 32747 | 32600 | 0.5 | 7900 | 4.13 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 110 ug Residual (ppm): 865ppm

Total weight of component: 0.7634g Total mg ETO: 0.660 mg ETO

Sample Dimensions (cm) 5(0.596)cm2 Surface Area of Sample ($cm^2$) 2.98cm2

µg EtO/$cm^2$: 36.9ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-20-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 0hr
Shaft

COPY

AbserbaTach
Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: ABSTACH30

Lot No.: 1429600001EER

Sample Weight: 2.09000g

Weight of Water: 4.5360g

Component Weight: 10.5591g

Aeration Time: 0hr

Cycle No.: ZA500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <419031 | — | 271000 | <1.55 | < 7.03 |

Total ETO (mg): < 0.0355 mg ETO
PPM: < 3 PPM
Dimensions of Sample (cm) L=3.812 OD=0.551 ID=0.420
Surface Area ($cm^2$) 11.8 cm2
µg ETO/$cm^2$ <0.596 ug ETO/cm2

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 0hr

CHEM-033D
REV A

COPY

LAPR-CLIP 12 MM.

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 888684 8812 Aeration Time: 0hr

Lot Number: 1429160000 4EER Cycle Number: Z4500129

Sample Weight: 0.1552g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 117584 | 116572 | 117078 | 0.4 | 7900 | 14.8 |
| 2 tss MAR-21-2015 | 1395 | 1352 | 1374 | 1.5 | 7900 | 0.174 |
| | | | | | | |
| | | | | | | |

Total ETO Content: LJJ ~~14.9~~ 15.0ug MAR-20-2015 Residual (ppm): 97ppm

Total weight of component: 0.1552g Total mg ETO: 0.0150mg ETO

Sample Dimensions (cm) 1.86cm2 Surface Area of Sample ($cm^2$) 1.86cm2

µg EtO/$cm^2$: 8.06ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-20-2015

Reviewed by: [illegible] Date: MAR-20-2015

Set A 1X 0hr
Clamp

Reticulator 55 Poly
Stapler w/ Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 150090000 3EER

Sample Weight: 117.116g

Weight of Water: 97.470g

Component Weight: 117.116g

Aeration Time: 0hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2004751 | 2093657 | 2049204 | 2.2 | 271000 | 7.56 | 737 |

Total ETO (mg): 0.737mg ETO
PPM: 6 PPM
Dimensions of Sample (cm) 136cm2
Surface Area ($cm^2$) 136cm2
µg ETO/$cm^2$ 5.42 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-20-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 0hr

Staples.

Reticulator 55 Poly

Stapler w/. Poly Scrb Staples

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 013601 Aeration Time: 0hr

Lot Number: 15009000003EER Cycle Number: Z1500129

Sample Weight: 0.0916g Extraction Time: 20 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 211486 | 213272 | 212379 | 0.4 | 7900 | 26.9 |
| 2 | 6810 | 6805 | 6808 | 0.03 | 7900 | 0.862 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 27.8 ug Residual (ppm): 303 ppm

Total weight of component: 0.4517g Total mg ETO: 0.131 mg ETO

Sample Dimensions (cm) 3( 0.946cm2) Surface Area of Sample ($cm^2$) 2.84cm2

µg EtO/$cm^2$: 9.79 ug ETO/cm2

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 0hr
Shaft

CHEM-029B
REV A

Polysorb Meniscal Stapler
**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 16.0510

Lot No.: 14265 00010EFR

Sample Weight: 2.3430g

Weight of Water: 8.8270g

Component Weight: 7.3720g

Aeration Time: 0hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 419031 | — | 271000 | < 1.55 | < 13.7 |

Total ETO (mg): < 0.0431 mg ETO
PPM: < 6 PPM
Dimensions of Sample (cm) 3.467 x 0.560 x 0.238
Surface Area ($cm^2$) 5.80 $cm^2$
µg ETO/$cm^2$ < 2.36 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X Ohr

Staple

CHEM-033D
REV A

Polysorb Meniscal Stapler

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 160510 Aeration Time: Ohr

Lot Number: 14265 00010EER Cycle Number: ZA500129

Sample Weight: 0.0251g Extraction Time: 20min.

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 210907 | 210628 | 210768 | 0.1 | 7900 | 26.7 |
| 2 | 4259 | 4278 | 4269 | 0.2 | 7900 | 0.540 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 27.2 µg Residual (ppm): 1084 ppm

Total weight of component: 0.0251g Total mg ETO: 0.0272 mg ETO

Sample Dimensions (cm) 0.826cm² Surface Area of Sample (cm²) 0.826cm²

µg EtO/cm²: 32.9 µg EtO/cm²

Performed by: Lizbeth Nimenez Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X Ohr
Shaft

COPY

Polysorb
Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 273026

Lot No.: 15026000002 EER

Sample Weight: 3.2163g

Weight of Water: 6.7498g

Component Weight: 12.4645g

Aeration Time: 0hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 4634736 | 4672362 | 4653549 | 0.4 | 271000 | 17.2 | 116 |

Total ETO (mg): 0.450 mg ETO
PPM: 36 PPM
Dimensions of Sample (cm) L= 4.523 OD= 0.483
Surface Area ($cm^2$) 7.23cm²
µg ETO/$cm^2$ 16.0 µg ETO/cm²

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 0hr
Suture

CHEM-033D
REV A

Poly sorb Ti-Cron Snf 2-0
Soft Tissue Anchor L=92cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 0hr

**Lot Number:** 150260000 2EER **Cycle Number:** Z1500129

**Sample Weight:** 0.17316g **Extraction Time:** 30min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1204168 | 1203882 | 1204025 | 0.01 | 7900 | 152 |
| 2 | 177715 | 167850 | 172783 | 2.9 | 7900 | 21.9 |
| 3 | 29485 | 29581 | 29533 | 0.2 | 7900 | 3.74 |
| | | | | | | |

**Total ETO Content:** 178 ug **Residual (ppm):** 1025ppm

**Total weight of component:** 0.2739g **Total mg ETO:** 0.281 mg ETO

**Sample Dimensions (cm)** 58.3 cm; 0.693 **Surface Area of Sample (cm²)** 84.1 cm2

**µg EtO/cm²:** 2.12 ug ETO/cm2

**Performed by:** [signature] **Date:** MAR-20-2015

**Reviewed by:** [signature] **Date:** MAR-21-2015

Set A 1X 0hr

Anchor

CHEM-033D
REV A

Polyarb
Soft Tissue Anchor

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 0hr

**Lot Number:** 1502600002EER **Cycle Number:** ZA500129

**Sample Weight:** 0.06039g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 340150 | 337613 | 338882 | 0.4 | 7900 | 42.9 |
| 2 | 22087 | 22061 | 22074 | 0.1 | 7900 | 2.79 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 45.7 µg **Residual (ppm):** 758 ppm

**Total weight of component:** 0.06039g **Total mg ETO:** 0.0457mg ETO

**Sample Dimensions (cm)** 1.975 cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 23.1µg ETO/cm²

**Performed by:** Lizbeth Meneses **Date:** MAR-20-2015

**Reviewed by:** [illegible] **Date:** MAR-21-2015

Set A 1X 0hr

Shaft / Cartridge

Poly G1A

Stapler with Polysorb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 150090001 2EER

Sample Weight: 65.084 g

Weight of Water: 105.064 g

Component Weight: 65.084 g

Aeration Time: 0hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2259912 | 2235597 | 2247755 | 0.5 | 271000 | 8.29 | 871 |

Total ETO (mg): 0.871 mg ETO

PPM: 13 PPM

Dimensions of Sample (cm) 2 (8.980x0.664x0.619)

Surface Area ($cm^2$) 47.8 $cm^2$

µg ETO/$cm^2$ 18.2 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 0hr

Staples

Poly G1A

CHEM-033D
REV A

COPY

Stapler with Polyscrb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 0hr

**Lot Number:** 150090001 2EER **Cycle Number:** Z.A500129

**Sample Weight:** 0.0579g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 198779 | 198068 | 198424 | 0.2 | 7900 | 25.1 |
| 2 | 4437 | 4460 | 4449 | 0.3 | 7900 | 0.563 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 25.7 µg **Residual (ppm):** 444ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.288mg ETO

**Sample Dimensions (cm)** 5(0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 10.0 µg ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-20-2015

**Reviewed by:** [illegible] **Date:** MAR-21-2015

Set A 1X 0hr

Clamp

Premium Polyscrb Loading Unit with Polyscrb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 0135071

Lot No.: 1502600005EER

Sample Weight: 30.745g

Weight of Water: 102.573g

Component Weight: 30.745g

Aeration Time: 0hr

Cycle No.: ZA500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1437660 | 1444034 | 1440847 | 0.2 | 271000 | 5.32 | 546 |

Total ETO (mg): 0.546 mg ETO

PPM: 18PPM

Dimensions of Sample (cm) 7.194x3.699x0.781

Surface Area ($cm^2$) 70.2 $cm^2$

µg ETO/$cm^2$ 7.78 µgETO/cm2

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 0hr

CHEM-033D
REV A

Staples

COPY

Premium Polysorb.
Loading Unit with Poly Sorb Staples.

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 0hr

**Lot Number:** 1502600005EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1092g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 291324 | 292161 | 291743 | 0.1 | 7900 | 36.9 |
| 2 | 12147 | 12214 | 12181 | 0.3 | 7900 | 1.54 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 38.4 µg **Residual (ppm):** 352ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.147 mg ETO

**Sample Dimensions (cm)** 5 (0.732 cm²) **Surface Area of Sample (cm²)** 3.66 cm²

**µg EtO/cm²:** 10.5 µg ETO/cm²

**Performed by:** [signature] **Date:** MAR-20-2015

**Reviewed by:** [signature] **Date:** MAR-21-2015

Set A 1X 0hr
Shaft / Cartridge

EndoGIA
Reinforced Medium/Thick
Reload with Tri-Staple Technology

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT

Aeration Time: 0hr

Lot No.: 1431600003EER

Cycle No.: ~~N/A~~ JC 3-11-15 ZA500129

Sample Weight: 32.811g

Extraction Time: 2hr

Weight of Water: 118.720g

Extraction Temp.: 37c

Component Weight: 32.811g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 470911 | 470573 | 470742 | 0.04 | 254000 | 1.85 | 220 |

Total ETO (mg): 0.220 mg ETO
PPM: 7 PPM
Dimensions of Sample (cm) L= 11cm OD= 1.176
Surface Area ($cm^2$) 42.8cm2
µg ETO/$cm^2$ 5.14 ug ETO/cm2

Performed by: Lizbeth A. Jiménez Date: MAR-11-2015

Reviewed by: Jodi Cinco Date: Mar 12, 2015

Set A 1X Ohr
Buttress

EndoGIA
Reinforced Medium / Thick
Reload with Tri-Staple Technology

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EGIATRS60AMT **Aeration Time:** Ohr

**Lot Number:** 1431600003EER **Cycle Number:** ZA500129

**Sample Weight:** 0.0763g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 3860.606 | 3900.915 | 3880.761 | 0.5 | 34.7 | 112 |
| 2 | 160.823 | 150.035 | 155.429 | 3.5 | 34.7 | 4.48 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 116 µg **Residual (ppm):** 1520 ppm

**Total weight of component:** 0.0763g **Total mg ETO:** 0.116 mg

**Sample Dimensions (cm)** 2(6.978x1.019x0.008) **Surface Area of Sample (cm²)** 2x14.3= 28.6cm²

**µg EtO/cm²:** 4.06 µg/cm²

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR-12-2015

Set A 1X 0hr
Staples.

Endo GIA
Reinforced Medium / Thick
Reload With Tri-Staple Technology

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** EGIATRS60AMT **Aeration Time:** 0hr

**Lot Number:** 1431600003EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1423g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <48.845 | — | 34.7 | <1.41 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.41 **Residual (ppm):** <10 ppm

**Total weight of component:** 0.1423g **Total mg ETO:** <0.0014mg

**Sample Dimensions (cm)** 90 x 00575 **Surface Area of Sample (cm²)** 5.18cm²

**µg EtO/cm²:** < 0.272 ug/cm²

**Performed by:** [signature] **Date:** Mar 11, 2015

**Reviewed by:** [signature] **Date:** MAR-12-2015

Set A 1x 0hr
Shaft

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Lot No.: 1432400003EER

Sample Weight: 1.6482g

Weight of Water: 9.2827g

Component Weight: 3.6838g

Aeration Time: 0hr

Cycle No.: ZA500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <419031 | — | 271000 | <1.55 | <14.4 |

Total ETO (mg): < 0.0322 mg ETO
PPM: <9 PPM
Dimensions of Sample (cm) L= 3.023 OD= 0.549 ID= 0.418
Surface Area ($cm^2$) 9.38cm2
µg ETO/$cm^2$ < 1.54 µg ETO/cm2

Performed by: [signature] Date: MAR-20-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 0hr
Tacks.

ReliaTack

CHEM-033D
REV A

COPY

Articulating Reloadable Fixation Device

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** RELTACK3X10 **Aeration Time:** 0hr

**Lot Number:** 1432400003EER **Cycle Number:** Z1500129

**Sample Weight:** 0.1273g **Extraction Time:** 20min

**Extraction Temp:** 130C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 740205 | 736366 | 738286 | 0.3 | 7900 | 93.5 |
| 2 | 31754 | 31422 | 31588 | 0.5 | 7900 | 4.00 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 97.5ug **Residual (ppm):** 766ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.196mg ETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 32.7ug ETO/cm²

**Performed by:** Elizabeth Jimenez **Date:** MAR-20-2015

**Reviewed by:** [illegible] **Date:** MAR-21-2015

# Aeration Validation

## Set "A"

## Absorbable Product

## 24 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Polysorb: 1436400023EER

AbsorbaTack: 1429600001EER

Laproclip: 1429600004EER

Poly Roticulator: 150090003EER

Meniscal Stapler: 1426500010EER

Suture Anchor: 1502600002EER

Poly GIA: 1500900012EER

SPSP 55: 1502600005EER

Reinforced Reload: 1431600003EER

ReliaTack: 1432400003EER

Set. A .1X 24hr

CHEM-033D
REV A

Equal amt of suture for 2 pkgs

V-LOC 90 Size 2-0 L=57cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCM0135 **Aeration Time:** 24hr

**Lot Number:** 1436400005EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1732g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 679424 | 666424 | 672924 | 1.0 | 8030 | 83.8 |
| 2 | 31465 | 31382 | 31424 | 0.1 | 8030 | 3.91 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 87.7µg **Residual (ppm):** 506ppm

**Total weight of component:** 0.1463g **Total mg ETO:** 0.074mg ETO

**Sample Dimensions (cm)** 67.5 cm, 8.492 **Surface Area of Sample ($cm^2$)** 7.95cm²

**µg EtO/$cm^2$:** 11.0µg EtO/cm²

**Performed by:** Lizbeth Nimmerez **Date:** MAR-13-2015

**Reviewed by:** [signature] **Date:** Mar 17, 2015

Set A 1X 24hr

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L=60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 24hr

Lot Number: 1436400008EER Cycle Number: ZA500129

Sample Weight: 0.1633g Extraction Time: 20min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 971701 | 962764 | 967233 | 0.5 | 8030 | 120 |
| 2 | 42690 | 42276 | 42483 | 0.5 | 8030 | 5.29 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 125 µg Residual (ppm): 765ppm

Total weight of component: 0.2128g Total mg ETO: 0.163mg ETO

Sample Dimensions (cm) ~~60cm~~ 46 cm; 7.075 VC 3-17-15 Surface Area of Sample (cm²) ~~8.48~~ 6.50 cm2 VC 3-17-13

µg EtO/cm²: ~~14.7~~ 19.2 µg EtO/cm2 VC 3-17-15

Performed by: Lizbeth C. Nimenez Date: MAR-13-2015

Reviewed by: Jean Cinco Date: Mar 17, 2015

Set A 1X 24hr

CHEM-033D
REV A

Equal amt of suture for 3pkgs
V-LOC 180 Reload. Size - 0 L= 20cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC A008L Aeration Time: 24hr

Lot Number: 1436400014EER Cycle Number: ZA500129

Sample Weight: 0.1991 Extraction Time: 20min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1233592 | 1223280 | 1228436 | 0.4 | 8030 | 153 |
| 2 | 67204 | 65371 | 66288 | 1.4 | 8030 | 8.26 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 161 µg Residual (ppm): 809ppm

Total weight of component: 0.0729g Total mg ETO: 0.059mg ETO

Sample Dimensions (cm) 54.6cm ; 7.075 Surface Area of Sample ($cm^2$) 7.72cm²

µg EtO/$cm^2$: 20.9µg EtO/cm²

Performed by: [signature] Date: MAR-13-2015

Reviewed by: [signature] Date: Mar 17, 2015

Set A 1X 24hr

CHEM-033D
REV A

Maxon Size 1 L= 90cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 8886626971 **Aeration Time:** 24hr

**Lot Number:** 1436400020EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1748g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 985433 | 982809 | 984121 | 0.1 | 8030 | 123 |
| 2 | 45644 | 47204 | 46424 | 1.7 | 8030 | 5.78 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 129ug **Residual (ppm):** 738ppm

**Total weight of component:** 0.3168g **Total mg ETO:** 0.234 mg ETO

**Sample Dimensions (cm)** ~~90cm~~ 60, 7.075 VC3-17-15 **Surface Area of Sample (cm²)** ~~12.7cm²~~ 707 VC3-17-15

**µg EtO/cm²:** ~~10.2~~ 18.2 ug ETO/cm² VC3-17-15

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** Jade Cano **Date:** Mar 17, 2015

Set A 1X 24hr

CHEM-033D
REV A

Equal amt of suture for 2 pkgs
Polysorb 2-0. L= 78cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 24hr

**Lot Number:** 1436400023EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1830g **Extraction Time:** 20min

**Extraction Temp:** 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 601815 | 608862 | 605339 | 0.6 | 8030 | 75.4 |
| 2 | 42316 | 42717 | 42517 | 0.5 | 8030 | 5.29 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 80.7 ug **Residual (ppm):** 441 ppm

**Total weight of component:** 0.1116g **Total mg ETO:** 0.049 mg ETO

**Sample Dimensions (cm)** 128cm, 0.386 **Surface Area of Sample ($cm^2$)** 332cm²

**µg EtO/$cm^2$:** 0.243 ug ETO/cm²

**Performed by:** Lizbeth Nunez **Date:** MAR-13-2015

**Reviewed by:** Sara Cino **Date:** Mar 17, 2015

Set A 1X 24hr

Tacks Absorbatach Fixation Device

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: ABSTACH30 Aeration Time: 24hr

Lot Number: 1429600001EER Cycle Number: ZA500129

Sample Weight: 0.1289g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 682824 | 690271 | 686548 | 0.5 | 8070 | 85.1 |
| 2 | 24593 | 24448 | 24521 | 0.3 | 8070 | 3.04 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 88.1ug Residual (ppm): 683ppm

Total weight of component: 0.7634g Total mg ETO: 0.522mgETO

Sample Dimensions (cm) 5(0.596cm²) Surface Area of Sample (cm²) 2.98cm2

µg EtO/cm²: 29.6ugEtO/cm2

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A 1X 24hr.

Shaft

Absorbatack Fixation Device

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Lot No.: 1429600001EER

Sample Weight: 2.0984g

Weight of Water: 8.2687g

Component Weight: 10.5591g

Aeration Time: 24hr

Cycle No.: ZA500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 399415 | — | 248000 | < 1.61 | < 13.3 |

Total ETO (mg): < ~~0.067~~ 0.0669 mg ETO so MAR-21-2015

PPM: < 6 PPM

Dimensions of Sample (cm) L= 3.873 OD= 0.552 ID=0.411

Surface Area ($cm^2$) 11.9cm²

µg ETO/$cm^2$ < 1.12 µg ETO/cm²

Performed by: Elizabeth Nimeney Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 24hr

CHEM-033D
REV A

COPY

LAPR-CLIP 12MM

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886848812 Aeration Time: 24hr

Lot Number: 1429600004EER Cycle Number: Z1500129

Sample Weight: 0.1550g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 139310 | 138047 | 138679 | 0.5 | 8070 | 17.2 |
| 2 | 1299 | 1298 | 1299 | 0 | 8070 | 0.161 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 17.4 ug Residual (ppm): 112 ppm

Total weight of component: 0.1550g Total mg ETO: ~~0.017~~ 0.0174 mg ETO so MAR-20-2015

Sample Dimensions (cm) 1.86cm² Surface Area of Sample (cm²) 1.86cm²

µg EtO/cm²: 9.35 ug ETO/cm²

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-20-2015

Set A 1X 24hr
Clamp

Reticulator 55 Poly
Stapler w/ Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 1500900003EER

Sample Weight: 114.912g

Weight of Water: 98.734g

Component Weight: 114.912g

Aeration Time: 24hr

Cycle No.: ZA500129

Extraction Time: 2hrs

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1348212 | 1321679 | 1334946 | 1.0 | 248000 | 5.38 | 531 |

Total ETO (mg): 0.531 mg ETO
PPM: 5 PPM
Dimensions of Sample (cm) 136 cm2
Surface Area (cm$^2$) 136 cm2
µg ETO/cm$^2$ 3.90 µg ETO/cm2

Performed by: Lizbeth N. Nunerey Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 24hr

Staples

Roticulator 55 Poly

CHEM-033D
REV A

Stapler w/ Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013601 **Aeration Time:** 24hr

**Lot Number:** 1500900003EFR **Cycle Number:** EA500129

**Sample Weight:** 0.0905g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 194834 | 185620 | 190227 | 2.4 | 8070 | 23.6 |
| 2 | 5583 | 5642 | 5613 | 0.5 | 8070 | 0.696 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 24.3ug **Residual (ppm):** 269ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.121 mg ETO

**Sample Dimensions (cm)** 3( 0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 8.56 ug ETO/cm²

**Performed by:** Lizbeth Nimenez **Date:** MAR-19-2015

**Reviewed by:** [illegible] **Date:** MAR-20-2015

Set A 1x24hr

Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Lot No.: 14265 00010 EER

Sample Weight: 2.0641g

Weight of Water: 6.7948g

Component Weight: 7.3720g

Aeration Time: 24hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 399415 | — | 248000 | < 1.61 | < 10.9 |

Total ETO (mg): < 0.0389 ~~0.039~~ mg ETO SO MAR-21-2015

PPM: < 5 PPM

Dimensions of Sample (cm) 3.061 x 0.555 x 0.236

Surface Area ($cm^2$) 5.10 $cm^2$

µg ETO/$cm^2$ < 2.14 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 24hr

Staple

CHEM-033D
REV A

Polysorb Meniscal Stapler

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 160510 Aeration Time: 24hr

Lot Number: 1426500010EER Cycle Number: ZA500129

Sample Weight: 0.0245g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 184316 | 182155 | 183236 | 0.6 | 8070 | 22.7 |
| 2 | 3321 | 3384 | 3353 | 1.0 | 8070 | 0.415 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 23.1 µg Residual (ppm): 943ppm

Total weight of component: 0.0245g Total mg ETO: ~~0.023~~ 0.0231 mg ETO. SO MAR-21-2015

Sample Dimensions (cm) ~~2(0.962 OD=0.076)~~ LJT MAR 19 2015 0.826cm² Surface Area of Sample (cm²) 0.826cm²

µg EtO/cm²: 28.0 µg EtO/cm²

Performed by: Lizbeth Nimency Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 24hr

Shaft

Polysorb

Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 2730216

Aeration Time: 24hr

Lot No.: 150216 00002EER

Cycle No.: ZA500129

Sample Weight: 1.9926g

Extraction Time: 2hr

Weight of Water: 8.6276g

Extraction Temp.: 37C

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2844934 | 2953472 | 2899203 | 1.9 | 2480000 | 11.7 | 101 |

Total ETO (mg): 0.632mg ETO

PPM: 51 PPM

Dimensions of Sample (cm) L= 3.006 OD=0.487

Surface Area ($cm^2$) 4.97cm2

µg ETO/$cm^2$ 20.3 µg ETO/cm2

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x 24hr

Suture

Ti-Cron Size 2-0

Polysorb

Soft Tissue Anchor L=91cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 273026 Aeration Time: 24hr

Lot Number: 150260000 2EER Cycle Number: EA500129

Sample Weight: 0.1786g Extraction Time: 30min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 916161 | 905909 | 911035 | 0.6 | 8070 | 113 |
| 2 | 150197 | 153933 | 152065 | 1.2 | 8070 | 18.8 |
| 3 | 69834 | 65821 | 67828 | 3.0 | 8070 | 8.40 |
| | | | | | | |

Total ETO Content: 140ug Residual (ppm): 784ppm

Total weight of component: 0.2744g Total mg ETO: 0.215mgETO

Sample Dimensions (cm) 59.2cm; 0.693 Surface Area of Sample ($cm^2$) 85.4cm2

µg EtO/$cm^2$: 1.64ugETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 24hr

Staple / Anchor

CHEM-033D
REV A

Polysorb

Soft Tissue Anchor 3mm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 24hr

**Lot Number:** 150260000 2EER **Cycle Number:** EA500129

**Sample Weight:** 0.0607g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 291095 | 291466 | 291281 | 0.06 | 8070 | 36.1 |
| 2 | 10921 | 10582 | 10752 | 1.6 | 8070 | 1.33 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 37.4 ug **Residual (ppm):** 616 ppm

**Total weight of component:** 0.0607g **Total mg ETO:** ~~0.037~~ 0.0374 mg ETO SO MAR-21-2015

**Sample Dimensions (cm)** ~~L=0.791 OD=0.400~~ 1.975cm² LJS MAR-19-2015 **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 18.9 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-19-2015

**Reviewed by:** [signature] **Date:** MAR-21-2015

Set A 1X 24hr
Shaft + Cartridge

Poly GIA
Stapler w/ Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775
Lot No.: 150090012EER
Sample Weight: 63.173g
Weight of Water: 107.928g
Component Weight: 63.173g

Aeration Time: 24hr
Cycle No.: ZA500129
Extraction Time: 2hr
Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2881389 | 2886958 | 2884174 | 0.1 | 248000 | 11.6 | 1252 |

Total ETO (mg): 1.25 mg ETO
PPM: 20 PPM
Dimensions of Sample (cm) 2(9.313 x 1.147 x 1.122).
Surface Area ($cm^2$) 89.6 $cm^2$
µg ETO/$cm^2$ 14.0 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 24hr

Poly GIA

CHEM-033D
REV A

Staples

Stapler w/ Polysorb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

COPY

Reorder Code: 030775 Aeration Time: 24hr

Lot Number: 1500900012EER Cycle Number: ZA500129

Sample Weight: 0.0580g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 177259 | 176306 | 176783 | 0.3 | 8070 | 21.9 |
| 2 | 3517 | 3525 | 3521 | 0.1 | 8070 | 0.436 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 22.3 ug Residual (ppm): 384 ppm

Total weight of component: 0.6492g Total mg ETO: 0.250 mg ETO

Sample Dimensions (cm) 5( 0.513cm²) Surface Area of Sample (cm²) 2.57cm²

µg EtO/cm²: 8.68 ug EtO/cm²

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 24hr Clamp.

Premium Polyscrb Loading Unit w/ Polyscrb Staples.

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 0135072

Lot No.: 150216000005EER

Sample Weight: 30.737 g

Weight of Water: 108.781 g

Component Weight: 30.737 g

Aeration Time: 24hr

Cycle No.: EA500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 963103 | 1023732 | 993418 | 3.1 | 2480000 | 4.01 | 436 |

Total ETO (mg): 0.436 mg ETO

PPM: 14 PPM

Dimensions of Sample (cm) 7.173x 3.856x 0.782

Surface Area ($cm^2$) 72.16 $cm^2$

µg ETO/$cm^2$ 6.01 µg ETO/$cm^2$

Performed by: Lizbeth Nunez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 24hr

Staples

CHEM-033D
REV A

Premium Polysorb
Loading Unit w/ Polysorb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** 013507L **Aeration Time:** 24hr

**Lot Number:** 1502600005EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1082g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 146840 | 157924 | 152382 | 3.6 | 8070 | 18.9 |
| 2 | 8522 | 8517 | 8520 | 0.02 | 8070 | 1.06 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 20.0 µg **Residual (ppm):** 185 ppm

**Total weight of component:** MAR. 19. 2015 LJJ ~~0.1082g~~ 0.4185 **Total mg ETO:** ~~0.020~~ 0.0774 mg ETO LJJ MAR. 19, 2015

**Sample Dimensions (cm)** 5( 0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 5.46 µg EtO/cm²

**Performed by:** [signature] **Date:** MAR-19-2015

**Reviewed by:** [signature] **Date:** MAR-21-2015

EndoGIA

Set A 1X 24hr

B Shaft / cartridge

LOT MAR-13-2015

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

COPY

Reorder Code: EGIATRS60AMT

Lot No.: 14316 0000 3EER

Sample Weight: 33.395g

Weight of Water: 116.140g

Component Weight: 33.395g

Aeration Time: 24hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 213722 | 213328 | 213525 | 0.09 | 233000 | 0.9116 | 106 |

Total ETO (mg): 0.106 mg ETO

PPM: 3 PPM

Dimensions of Sample (cm) L=11cm OD=1.100

Surface Area ($cm^2$) 39.9cm2

µg ETO/$cm^2$ 2.66 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-13-2015

Reviewed by: Jack Cano Date: Mar 17, 2015

Set A 1X 24hrs
Buttress

Endo G1A

CHEM-033D
REV A

# Ethylene Oxide Sample Analysis Data Sheet

COPY

Reorder Code: EG1ATRS60AMT Aeration Time: 24hr

Lot Number: 1431600003EER Cycle Number: ZA500129

Sample Weight: 0.0732g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 435135 | 430378 | 432757 | 0.5 | 8030 | 53.9 |
| 2 | 18423 | 19024 | 18724 | 1.6 | 8030 | 2.33 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 56.2ug Residual (ppm): 768ppm

Total weight of component: 0.0732g Total mg ETO: 0.056mg ETO

Sample Dimensions (cm) 2(6.780x1.026x0.011) Surface Area of Sample ($cm^2$) 28.2cm2

µg EtO/$cm^2$: 1.99 ug EtO/cm2

Performed by: Lizbeth Nimency Date: MAR-13-2015

Reviewed by: Jodi Cirio Date: Mar 17, 2015

Set A 1X 24hr

Endo GIA

Staple Reinforced Medium / Thick Reload with Tri-Staple Technology

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** EGIATRS60AMT **Aeration Time:** 24hr

**Lot Number:** 1431600003EER **Cycle Number:** Z1500129

**Sample Weight:** 0.1415 g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <14449 | — | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.80ug **Residual (ppm):** <13ppm

**Total weight of component:** 0.1415 g **Total mg ETO:** <0.002mg ETO

**Sample Dimensions (cm)** 90staples, 0.0575 **Surface Area of Sample ($cm^2$)** 5.18cm2

**µg EtO/$cm^2$:** <0.347ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** Jodi Cruo **Date:** Mar 17, 2015

Set A 1X 24hr

Shaft.

ReliaTack

Articulating Reloadable Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

COPY

Reorder Code: RELTACK3X10

Aeration Time: 24hr

Lot No.: 1432400003EER

Cycle No.: Z1500129

Sample Weight: 1.4048g

Extraction Time: 2hr

Weight of Water: 7.4814g

Extraction Temp.: 37C

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 399415 | — | 248000 | < 1.61 | < 12.0 |

0.0315 SO mar-21-2015

Total ETO (mg): < ~~0.031~~ mg ETO

PPM: < 9 PPM

Dimensions of Sample (cm) L = 2.561 OD=0.548 ID=0.417

Surface Area ($cm^2$) 7.98cm²

µg ETO/$cm^2$ < 1.50µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: Mar-21-2015

Set A 1X 24hr

Tacks

ReliaTack

Articulating Reloadable Fixation Device

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: RELTACK3X10 Aeration Time: 24hr

Lot Number: 1432400003EER Cycle Number: Z1500129

Sample Weight: 0.1267g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 665743 | 666121 | 665932 | 0.03 | 8070 | 82.5 |
| 2 | 26474 | 26070 | 26272 | 0.8 | 8070 | 3.26 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 85.8 ug Residual (ppm): 677ppm

Total weight of component: 0.2555g Total mg ETO: 0.173mg ETO

Sample Dimensions (cm) 5( 0.596cm²) Surface Area of Sample (cm²) 2.98cm²

µg EtO/cm²: 28.8 ug ETO/cm²

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

# Aeration Validation

## Set "A"

## Absorbable Product

## 48 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Polysorb: 1436400023EER

AbsorbaTack: 1429600001EER

Laproclip: 1429600004EER

Poly Roticulator: 150090003EER

Meniscal Stapler: 1426500010EER

Suture Anchor: 1502600002EER

Poly GIA: 1500900012EER

SPSP 55: 1502600005EER

Reinforced Reload: 1431600003EER

ReliaTack: 1432400003EER

Set A 1X 48hr

CHEM-033D
REV A

Equal amt of suture for 2pkgs
V-LOC 90 Size 2-0 L= 57cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC M0135 **Aeration Time:** 48hr

**Lot Number:** 1436400005EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1775g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 458121 | 453288 | 455705 | 0.5 | 8030 | 56.8 |
| 2 | 31340 | 30372 | 30856 | 1.6 | 8030 | 3.84 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 60.6ug **Residual (ppm):** 341ppm

**Total weight of component:** 0.1470g **Total mg ETO:** 0.050 mg ETO

**Sample Dimensions (cm)** 68.8cm, 8.492 **Surface Area of Sample ($cm^2$)** 8.10cm²

**µg EtO/$cm^2$:** 7.48 ug ETO/cm²

**Performed by:** Lizbeth Nimenez **Date:** MAR-13-2015

**Reviewed by:** Jose Cruz **Date:** Mar 17, 2015

Set. A 1X 48hr

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 48hrs

Lot Number: 1436400008EER Cycle Number: ZA500129

Sample Weight: 0.1580g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 417881 | 417836 | 417859 | 0.01 | 8030 | 52.0 |
| 2 | 207454 | 204075 | 205765 | 0.8 | 8030 | 25.6 |
| 3 | 14351 | 13988 | 14170 | 1.3 | 8030 | 1.76 |
| | | | | | | |

Total ETO Content: 79.4ug Residual (ppm): 503ppm

Total weight of component: 0.2124g Total mg ETO: 0.107mg ETO

JC 3-17-15 45 6.36 JC 3-17-15

Sample Dimensions (cm) ~~60cm~~; 7.075 Surface Area of Sample ($cm^2$) ~~8.48cm~~ 2

12.5

µg EtO/$cm^2$: ~~9.36~~ ug EtO/cm2 JC 3-17-15

Performed by: Lizbeth [signature] Date: MAR-13-2015

Reviewed by: [signature] Date: Mar 17, 2015

Set A 1X 48hr

Equal amt of suture for 3pkg

V-LOC 180 Reload. Size 0 L=20cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC A008L **Aeration Time:** 48hr

**Lot Number:** 14364 00014EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1931g **Extraction Time:** 30min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 880668 | 886488 | 883578 | 0.3 | 8030 | 110 |
| 2 | 108804 | 107629 | 108217 | 0.5 | 8030 | 13.5 |
| 3 | 7487 | 7438 | 7463 | 0.3 | 8030 | 0.929 |
| | | | | | | |

**Total ETO Content:** 124 µg **Residual (ppm):** 642 ppm

**Total weight of component:** 0.0135g **Total mg ETO:** 0.047mg ETO

**Sample Dimensions (cm)** 52.5cm; 7.075 **Surface Area of Sample (cm²)** 7.42cm 2

**µg EtO/cm²:** 16.7 µg EtO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** [illegible] **Date:** Mar 17, 2015

Set A 1X 48hr

CHEM-033D
REV A

COPY

Maxon Size 1 L-91cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 888616626971 **Aeration Time:** 48hr

**Lot Number:** 14364000 20EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1871g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 693543 | 703824 | 698684 | 0.7 | 8030 | 87.0 |
| 2 | 81602 | 81287 | 81445 | 0.2 | 8030 | 10.1 |
| 3 | 5238 | 5336 | 5287 | 0.9 | 8030 | 0.658 |
| | | | | | | |

**Total ETO Content:** 97.8ug **Residual (ppm):** 523ppm

**Total weight of component:** 0.3183g **Total mg ETO:** 0.166mg ETO

**Sample Dimensions (cm)** ~~94cm, 7.075~~ 53.5 VC3-17-15 **Surface Area of Sample (cm²)** ~~12.9cm²~~ 7.56 VC3-17-15

**µg EtO/cm²:** ~~7.58~~ 12.9 VC3-17-15 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-13-2015

**Reviewed by:** [signature] **Date:** Mar 17, 2015

SetA.1X 48hr

CHEM-033D
REV A

COPY

Equal amt. of suture for 2 pkgs
Polyscrb 2-0 L= 78cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 48hr

**Lot Number:** 14364000 23EER **Cycle Number:** ZA500129

**Sample Weight:** 0.7164g **Extraction Time:** 20 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 472206 | 475759 | 473983 | 0.4 | 8030 | 59.0 |
| 2 | 36821 | 36667 | 36744 | 0.2 | 8030 | 4.58 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 63.6ug **Residual (ppm):** 361ppm

**Total weight of component:** 0.1098g **Total mg ETO:** 0.040mg ETO

**Sample Dimensions (cm)** 125cm², ~~0.693~~ 0.386 **Surface Area of Sample (cm²)** ~~180~~ 324 cm²
0.196
LJJ MAR-13-2015 LJJ MAR-13-2015

**µg EtO/cm²:** ~~0.353~~ µg ETO/cm²
LJJ MAR-13-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** Joan Cino **Date:** Mar 17, 2015

Set A 1X 48hr

CHEM-033D
REV A

Tacks

AbsorbaTack

# Ethylene Oxide Sample Analysis Data Sheet

COPY

Reorder Code: ABSTACK30 Aeration Time: 48hr

Lot Number: 1429600001EER Cycle Number: Z15008129

Sample Weight: 0.1277g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 518806 | 513442 | 516124 | 0.5 | 8070 | 64.0 |
| 2 | 23286 | 23460 | 23374 | 0.4 | 8070 | 2.90 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 66.9ug Residual (ppm): 524ppm

Total weight of component: 0.7634g Total mg ETO: 0.400mg ETO

Sample Dimensions (cm) 5( 0.596cm²) Surface Area of Sample (cm²) 2.98cm²

µg EtO/cm²: 22.4ug ETO/cm²

Performed by: Lizbeth Nimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 48hr
Shaft

CHEM-029B
REV A

AbsorbaTack
**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Lot No.: 1429600001EER

Sample Weight: 2.1817g

Weight of Water: 3.4909g

Component Weight: 10.5591g

Aeration Time: 48hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 399415 | — | 248000 | < 1.61 | < 5.62 |

0.0272 so mar-21-2015

Total ETO (mg): < ~~0.027~~ mg ETO

PPM: < 3 PPM

Dimensions of Sample (cm) L = 4.041 OD = 0.549 ID = 0.412

Surface Area ($cm^2$) 12.4 $cm^2$

µg ETO/$cm^2$ < 0.453 µg ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set 1X A 48hr

CHEM-033D
REV A

LAPR-CLIP 12mm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 88868488812 Aeration Time: 48hr

Lot Number: 1429600004EER Cycle Number: ZA500129

Sample Weight: 0.1550g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 102184 | 102312 | 102248 | 0.06 | 8070 | 12.7 |
| 2 | 1027 | 1037 | 1032 | 0.5 | 8070 | 0.128 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 12.8 ug Residual (ppm): 83ppm

Total weight of component: 0.1550g Total mg ETO: ~~0.013mg~~ 0.0128 SO MAR-21-2015 ETO

Sample Dimensions (cm) ~~1.623x1.503x0.220~~ 1.86cm2 MAR. 19. 2015 Surface Area of Sample ($cm^2$) 1.86cm2

µg EtO/$cm^2$: 6.88 ug ETO/cm2

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 48hr
Clamp

Roticulator 55 Poly
Stapler with Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 150090000 3EER

Sample Weight: 117.298 g

Weight of Water: 94.703g

Component Weight: 117.298g

Aeration Time: 48hr

Cycle No.: Z1500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1359196 | 1355146 | 1357171 | 0.1 | 248000 | 5.47 | 518 |

Total ETO (mg): 0.518 mg ETO
PPM: 4 PPM
Dimensions of Sample (cm) 136cm²
Surface Area (cm²) 136cm²
µg ETO/cm² 3.81 µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A. 1X 48hr

Staples.

CHEM-033D
REV A

Reticulator 55 Poly
Stapler with Polyscrb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 0136601 **Aeration Time:** 48hr

**Lot Number:** 150090000 3EER **Cycle Number:** Z45000129

**Sample Weight:** 0.0905g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 179682 | 179344 | 179513 | 0.1 | 8070 | 22.2 |
| 2 | 4046 | 3994 | 4020 | 0.6 | 8070 | 0.498 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 22.7ug **Residual (ppm):** 251ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.113mg ETO

**Sample Dimensions (cm)** 3( 0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 7.99ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-19-2015

**Reviewed by:** [illegible] **Date:** Mar-21-2015

Set A 1X 48hr.

Shaft

Polysorb meniscal Stapler

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

**Sample Analysis Data Sheet**

Reorder Code: 1605110

Lot No.: 14265000'10EER

Sample Weight: 1.7511g

Weight of Water: 6.3838g

Component Weight: 7.3720g

Aeration Time: 48hr

Cycle No.: 24500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <399415 | — | | 248000 | < 1.61 | < 10.3 |

<0.0433 SB Mar-21-2015

Total ETO (mg): ~~0.043mg~~ ETO

PPM: < 6 PPM

Dimensions of Sample (cm) 2.808 x 0.555 x 0.240

Surface Area ($cm^2$) 4.73 $cm^2$

µg ETO/$cm^2$ < 2.18 µg ETO/$cm^2$

Performed by: Lizbeth Nunuez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 48hr

Staples

CHEM-033D
REV A

COF

Polysorb Meniscal Stapler

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 48hr

**Lot Number:** 1426500010EER **Cycle Number:** ZA500129

**Sample Weight:** 0.0250g **Extraction Time:** 20min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 165337 | 169042 | 167190 | 1.1 | 8070 | 20.7 |
| 2 | 4847 | 4708 | 4778 | 1.4 | 8070 | 0.592 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 21.3ug **Residual (ppm):** 852ppm

**Total weight of component:** 0.0250g **Total mg ETO:** ~~0.021~~ 0.0213 mg ETO SO MAR-21-2015

**Sample Dimensions (cm)** ~~(0.993 OD-0.127)2~~ 0.826cm2 MAR-19-2015 **Surface Area of Sample (cm²)** 0.826cm2

**µg EtO/cm²:** 25.8 ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-19-2015

**Reviewed by:** [illegible] **Date:** MAR-21-2015

Set A 1x 48hr

Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 273026

Aeration Time: 48hr

Lot No.: 1502600002 EER

Cycle No.: ZA500129

Sample Weight: 2.3397g

Extraction Time: 2hr

Weight of Water: 9.7057g

Extraction Temp.: 37C

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 945513 | 956882 | 951198 | 0.6 | 248000 | 3.84 | 37.3 |

Total ETO (mg): 0.199 mg ETO

PPM: 16 PPM

Dimensions of Sample (cm) L = 3.389 OD = 0.486

Surface Area ($cm^2$) 5.55 $cm^2$

µg ETO/$cm^2$ 6.72 µg ETO/$cm^2$

Performed by: Lizbeth Nimurez Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1x48hr
Suture

CHEM-033D
REV A

Ti-cron 2-0 L=91cm

Polysorb Soft Tissue Anchor 3mm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 273026 Aeration Time: 48hr

Lot Number: 1502600002EER Cycle Number: ZA500129

Sample Weight: 0.1601g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 364120 | 366229 | 365175 | 0.3 | 8070 | 45.3 |
| 2 | 62145 | 61334 | 61740 | 0.7 | 8070 | 7.65 |
| 3 | 28505 | 26391 | 27448 | 3.9 | 8070 | 3.40 |
| | | | | | | |

Total ETO Content: 56.4µg Residual (ppm): 352ppm

Total weight of component: 0.2742g Total mg ETO: ~~0.097~~ 0.0966 mg ETO so mar-21-2015

Sample Dimensions (cm) 53.1cm; 0.693 Surface Area of Sample ($cm^2$) 76.6cm²

µg EtO/$cm^2$: 0.736µg EtO/cm²

Performed by: Elizabeth Jimenez Date: MAR-19-2015

Reviewed by: [signature] Date: Mar-21-2015

Set A 1X 48hr

Staple (Anchor)

CHEM-033D
REV A

Polysorb Soft Tissue Anchor 3mm

**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** 273026 **Aeration Time:** 48hr

**Lot Number:** 1502600002EER **Cycle Number:** ZA500129

**Sample Weight:** 0.0604g **Extraction Time:** 20min

**Extraction Temp:** 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 282012 | 282979 | 282496 | 0.2 | 8070 | 35.0 |
| 2 | 13811 | 13512 | 13662 | 1.1 | 8070 | 1.69 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 36.7 ug **Residual (ppm):** 608 ppm

**Total weight of component:** 0.0604g **Total mg ETO:** ~~0.037~~ 0.0367 mg ETO so Mar-21-2015

**Sample Dimensions (cm)** ~~0.797 OD=0.299~~ 1.975cm² LJT MAR. 19. 2015 **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** ~~18.9~~ 18.6ug EtO/cm² LJT MAR. 19. 2015

**Performed by:** Lizbeth Nimenez **Date:** MAR-19-2015

**Reviewed by:** [signature] **Date:** MAR-21-2015

Set 1x A 48hrs
Shaft / Cartridge

PolyGlA

Stapler w/ Polysorb Staples

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Aeration Time: 48hr

Lot No.: 1500900012EER

Cycle No.: ZA500129

Sample Weight: 62.383g

Extraction Time: 2hr

Weight of Water: 106.852g

Extraction Temp.: 37c

Component Weight: ~~62.810g~~ 62.383g
LJJ MAR. 19-2015

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1578507 | 1551840 | 1565174 | 0.9 | 248000 | 6.31 | 674.~~236~~ |

LJJ MAR. 19-2015

Total ETO (mg): 0.674 mg ETO
PPM: 11 PPM
Dimensions of Sample (cm) 2(9.211X0.641X0.618)
Surface Area ($cm^2$) 48.0 ~~56.2~~ $cm^2$ So mar-21-2015
µg ETO/$cm^2$ 14.0 ~~12.0~~ µg ETO/$cm^2$
So mar-21-2015

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set 1X A 48hrs

Staples

PolyGIA

CHEM-033D
REV A

Stapler w/ Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 030775 Aeration Time: 48hrs

Lot Number: 1500900012EER Cycle Number: Z1500129

Sample Weight: 0.0580g Extraction Time: 20min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 209774 | 210596 | 210185 | 0.2 | 8070 | 26.0 |
| 2 | 9333 | 9191 | 9262 | 0.8 | 8070 | 1.15 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 27.2 ug Residual (ppm): 469ppm

Total weight of component: 0.6492g Total mg ETO: 0.304 mg ETO

Sample Dimensions (cm) 5( 0.513cm²) Surface Area of Sample (cm²) 2.57cm²

µg EtO/cm²: 10.6 ug EtO/cm²

Performed by: Lizbeth Jimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 48hr
Clamp

Premium Polyscrb
Loading Unit w/ Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 0135071

Lot No.: 150260005EER

Sample Weight: 30.731g

Weight of Water: 105.707g

Component Weight: 30.731g

Aeration Time: 48hr

Cycle No.: E4500129

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 806277 | 811736 | 809007 | 0.3 | 248000 | 3.26 | 345 |

Total ETO (mg): 0.345mg ETO

PPM: 11 PPM

Dimensions of Sample (cm) 6.570x3.033x0.284

Surface Area ($cm^2$) 45.3cm²

µg ETO/$cm^2$ 7.62 µg ETO/cm²

Performed by: Lizbeth Ramirez Date: MAR-19-2015

Reviewed by: [illegible] Date: MAR-21-2015

Set A 1X 48hr
Staples

COPY

CHEM-033D
REV A

Premium Polyscrb
Loading Unit w/ Polyscrb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 0135071 **Aeration Time:** 48hrs

**Lot Number:** 1502600005EER **Cycle Number:** E1500129

**Sample Weight:** 0.1091g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 147532 | 145718 | 146625 | 0.6 | 8070 | 18.2 |
| 2 | 3367 | 3354 | 3361 | 0.2 | 8070 | 0.416 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 18.6 ug **Residual (ppm):** 170ppm

**Total weight of component:** 0.4185g **Total mg ETO:** ~~0.071mg ETO~~ 0.0713 80 mar-21-2015

**Sample Dimensions (cm)** 5( 0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 5.08ug ETO/cm²

**Performed by:** Lysbeth Jiménez **Date:** MAR-19-2015

**Reviewed by:** [illegible] **Date:** MAR-21-2015

EndoG1A

Set A 1x48hr

COPY

Shaft + Cartridge

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Lot No.: 1431600003EER

Sample Weight: 33.395g

Weight of Water: 117.414g

Component Weight: 33.395g

Aeration Time: 48hr

Cycle No.: ZA500129

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 115759 | 112501 | 114130 | 1.4 | 233000 | 0.490 | 57.5 |

Total ETO (mg): 0.058 mg ETO

PPM: 2 PPM

Dimensions of Sample (cm) L=11cm OD=1.175

Surface Area ($cm^2$) 42.8 cm2

µg ETO/$cm^2$ 1.34 µg ETO/cm2

Performed by: Lizbeth Nimenez Date: MAR-13-2015

Reviewed by: Jack Cruz Date: Mar 17, 2015

Set A 1x48hr

Buttress

Endo G1A

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 48hr

Lot Number: 1431600003EER Cycle Number: ZA500129

Sample Weight: 0.0775g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 227187 | 227804 | 227496 | 0.1 | 8030 | 28.3 |
| 2 | 9411 | 9199 | 9305 | 1.1 | 8030 | 1.16 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 29.5µg Residual (ppm): 381ppm

Total weight of component: 0.0775g Total mg ETO: 0.030mg ETO

Sample Dimensions (cm) 2(7.327x1.023x0.007) Surface Area of Sample ($cm^2$) 30.2cm²

µg EtO/$cm^2$: 0.977µg EtO/cm²

Performed by: Lizbeth Nimenez Date: MAR-13-2015

Reviewed by: Jocu Cinco Date: Mar 17, 2015

Set A 1X 48hr

Endo GIA

CHEM-033D
REV A

Staples.

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** EGIATRS160AMT **Aeration Time:** 48hr

**Lot Number:** 1431600003EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1439g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 14449 | — | 8030 | < 1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.80 ug **Residual (ppm):** < 13ppm

**Total weight of component:** 0.1439g **Total mg ETO:** < 0.002 mg ETO

**Sample Dimensions (cm)** 90 staples; 0.0575 **Surface Area of Sample ($cm^2$)** 5.18cm2

**µg EtO/$cm^2$:** < 0.347 ug ETO/cm2

**Performed by:** Lysbeth Nimenia **Date:** MAR-13-2015

**Reviewed by:** Joan Cruz **Date:** Mar 17, 2015

Set A 1X 48hr
Shaft

ReliaTack

Articulating Relocadable Fixation Device

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Lot No.: 14324 00003EER

Sample Weight: 1.6847g

Weight of Water: 9.0222g

Component Weight: 3.6838g

Aeration Time: 48hr

Cycle No.: EA500129

Extraction Time: 2hr

Extraction Temp.: ~~150C~~ 37C
MAR-19-2015

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 399415 | — | 248000 | < 1.61 | < 14.5 |

Total ETO (mg): ~~0.032~~ <0.0317 mg ETO SO MAR-21-2015
PPM: < 9 PPM
Dimensions of Sample (cm) L=3.174 OD=0.548 ID=0.416
Surface Area ($cm^2$) 9.81 $cm^2$
µg ETO/$cm^2$ < 1.48 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-19-2015

Reviewed by: [signature] Date: MAR-21-2015

Set A 1X 48hr

ReliaTack

CHEM-033D
REV A

Tacks

COPY

Articulating Reloadable Fixation Device

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: RELTACh3X10 Aeration Time: 48hr

Lot Number: 1432400003EER Cycle Number: ZA500129

Sample Weight: 0.1283g Extraction Time: 20min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 581529 | 589370 | 585450 | 0.7 | 8070 | 72.5 |
| 2 | 26868 | 27308 | 27088 | 0.8 | 8070 | 3.36 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 75.9 ug Residual (ppm): 592 ppm

Total weight of component: 0.2555g Total mg ETO: 0.151 mg ETO

Sample Dimensions (cm) 5( 0.596cm²) Surface Area of Sample (cm²) 2.98cm²

µg EtO/cm²: 25.5 ug ETO/cm²

Performed by: Lizbeth Nimenez Date: MAR-19-2015

Reviewed by: [illegible] Date: Mar-21-2015

# Aeration Validation

## Set "A"

## Absorbable Product

## 72 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Polysorb: 1436400023EER

AbsorbaTack: 1429600001EER

Laproclip: 1429600004EER

Poly Roticulator: 150090003EER

Meniscal Stapler: 1426500010EER

Suture Anchor: 1502600002EER

Poly GIA: 1500900012EER

SPSP 55: 1502600005EER

Reinforced Reload: 1431600003EER

ReliaTack: 1432400003EER

Set A 1X 72hrs

CHEM-033C
REV A

COPY

V-LOC 90 Sing. 2-0 L=57cm

Sample Analysis Data Sheet

Reorder Code: VLOC M0135 Aeration Time: 72hrs
Lot Number: 14364000005EER Aeration Conditions: ≈105°F
Cycle Number: 2A500129

**Ethylene Chlorohydrin**

Sample Weight 0.1478 g
Water Weight 3.0672 g
Component Wt. 0.1478 g
Sample Dimensions (cm) L=57cm

Dilution Factor 20.75
Extraction Time 24hrs
Extraction Temp. room temp.
Surface Area 6.71 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.54 | <302 | <0.045 |

**Ethylene Oxide**

Sample Weight 0.1448 g
Component Wt. 0.1448 g

Extraction Time 20min
Extraction Temp. 15°C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 942.448 | 932.725 | 937.587 | 0.5 | 35.9 | 26.1 |
| 2 | 42.0391 | 42.604 | 42.322 | 0.7 | 35.9 | 1.18 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 27.3 µg
Total mg ETO 0.027 mg
Dimensions of Sample (cm) L=57cm 18.49/7

Residual (ppm) 189 ppm

Surface Area (cm²) 6.71 cm²

µg EtO/cm² 4.07 ~~4.06~~ LJT 4.1 µg/cm²
LJT MAR-16-2015

mg EtCh/cm² <0.0066 mg/cm² ~<0.007 mg EtCh/cm²

Performed by: [signature]

Date: mar 16, 2015

Reviewed by: [signature]

Date: MAR-16-2015

Set A 1x 72hr

CHEM-033C
REV A

COPY

V-LOC 180 Size 0 L→ 60cm

Sample Analysis Data Sheet

Reorder Code: VLOCL05360
Lot Number: 1436400008EER
Cycle Number: 21500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2115 g
Water Weight 5.2263 g
Component Wt. 0.2115 g
Sample Dimensions (cm) 60 cm

Dilution Factor 24.71
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 8.48 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no | response | <77.1954 | – | 5.309 | <14.54 | <359 | <0.076 |

## Ethylene Oxide

Sample Weight 0.2126 g
Component Wt. 0.2126 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response 3203.800 | % Deviation | Response Factor | ETO Content MAR-16-2015 |
|---|---|---|---|---|---|---|
| 1 | 3223.052 | 3184.548 | ~~3206.300~~ HT 16-MAR-2015 | 0.5 | 35.9 | 89.32 |
| 2 | 242.097 | 249.836 | 245.967 | 1.6 | 35.9 | 6.85 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) MAR-16-2015 ~~96.2~~ 96.1
Total mg ETO 0.096 mg
Dimensions of Sample (cm) 60 cm 7.075

Residual (ppm) 452 ppm
Surface Area (cm²) 8.48 cm²

µg EtO/cm² 11.3 µg/cm²

mg EtCh/cm² <0.0090 mg/cm

Performed by: [signature]

Date: May 16, 2015

Reviewed by: [signature]

Date: MAR-16-2015

Set A
1X

Size 0 VLOC 180 Reload
L = 20 cm

COPY

CHEM-033C
REV A

# Sample Analysis Data Sheet

Reorder Code: VLOCA008L
Lot Number: 14364000 14EEC
Cycle Number: Z1500129

Aeration Time: 72 hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1480 g
Water Weight 4.8724 g
Component Wt. 0.0756 g
Sample Dimensions (cm) L=39 cm; 7.075

Dilution Factor 32.92
Extraction Time 24 hr
Extraction Temp. Room temp
Surface Area 5.51 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.54 | <479 | <0.036 |

## Ethylene Oxide

Sample Weight 0.1491 g
Component Wt. 0.0756 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response 123 | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2422.289 | 2411.957 | 2417.098 | 0.2 | 35.9 | 67.3 |
| 2 | 129.656 | 125.106 | 127.381 | 1.8 | 35.9 | 3.55 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 70.9 µg
Total mg ETO 0.036 mg
Dimensions of Sample (cm) 39.4 cm; 7.075

Residual (ppm) 476 ppm
Surface Area (cm²) 5.57 cm²

µg EtO/cm² 12.7 µg/cm²

mg EtCh/cm² <0.013 mg

Performed by: [signature]

Date: Mar 16, 2015

Reviewed by: [signature]

Date: MAR-16-2015

Set A 1x

Maxon size 1 L=91 cm

COPY

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: 8886626971
Lot Number: 143640020EEC
Cycle Number: ZA500129

Aeration Time: 72 hrs
Aeration Conditions: ~105°F

**Ethylene Chlorohydrin**

Sample Weight 0.2942 g
Water Weight 6.0230 g
Component Wt. 0.2942 g
Sample Dimensions (cm) 85cm 7.075

Dilution Factor 20.47
Extraction Time ~24 hr
Extraction Temp. Room temp
Surface Area 12.01 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | ~77.1954 | – | 5.309 | ~14.54 | ~~<257~~ LJJ MAR-16-2015 <298 | <0.088 |

**Ethylene Oxide**

Sample Weight 0.1960 g
Component Wt. 0.3163 g

Extraction Time 30 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2625.465 | 2604.805 | 2615.135 | 0.4 | 35.9 | 72.8 |
| 2 | 301.202 | 294.737 | 297.970 | 1.1 | 35.9 | 8.30 |
| 3 | 19.2164 | 19.092 | 19.154 | 0.3 | 35.9 | 0.534 |
| | | | | | | |

Total ETO content (µg) 81.6 µg
Total mg ETO 0.132 mg
Dimensions of Sample (cm) L=56cm 7.075

Residual (ppm) 416 ppm
Surface Area (cm²) 7.92 cm²

µg EtO/cm² 10.3 µg/cm²

mg EtCh/cm² <0.0078 mg/cm² LJJ MAR-16-2015

Performed by: Jade Cinco

Date: Mar 16, 2015

Reviewed by: Lizbeth Jimenez

Date: MAR-16-2015

Set A 1X 72hr

Equal amt of suture for 2 pkgs

Polysorb Size 2-0 L=78cm

COPY

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: L43
Lot Number: 1436400023EER
Cycle Number: ZA500129

Aeration Time: 72 hrs
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1105 g
Water Weight 5.0701 g
Component Wt. 0.2210 g
Sample Dimensions (cm) L=39cm 0.3859

Dilution Factor 45.88
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 101 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.54 | <667 | ~~<0.0032~~ <0.0074 0.147 |

VC 3-12-15
WJ MAR. 16. 2015

## Ethylene Oxide

Sample Weight 0.2225 g
Component Wt. 0.1115 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1835.919 | 1779.974 | 1807.947 | 1.5 | 35.9 | 50.4 |
| 2 | 130.841 | 136.538 | 133.690 | 2.1 | 35.9 | 3.72 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 54.1 µg
Total mg ETO 0.027 mg
Dimensions of Sample (cm) L=156cm 0.3859

µg EtO/cm² 0.134 µg/cm²

Residual (ppm) 243 ppm
Surface Area (cm²) 404 cm²
mg EtCh/cm² <0.0007 mg/cm²

Performed by: [signature]
Date: Mar 16, 2015

Reviewed by: [signature]
Date: MAR-16-2015

Set A 1x 72hrs

TACKS

COPY

CHEM-033C
REV A

AbsorbaTack
Fixation Device
Sample Analysis Data Sheet

Reorder Code: ABSTACK30
Lot Number: 14296 00001EER
Cycle Number: 21500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1280 g
Water Weight 1.0503 g
Component Wt. 0.7634 g
Sample Dimensions (cm) 5(0.596)cm²

Dilution Factor 8.2055
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.98cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | < 119 | <0.0908 |

**Ethylene Oxide**

Sample Weight 0.1279 g
Component Wt. 0.7634 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 582620 | 582135 | 582378 | 0.4 | 7610 | 76.5 |
| 2 | 22915 | 23113 | 23014 | 0.4 | 7610 | 3.02 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 79.5 µg
Total mg ETO 0.475 mg ETO
Dimensions of Sample (cm) 5(0.596 cm²)

Residual (ppm) 622ppm
Surface Area (cm²) 2.98cm²

µg EtO/cm² 26.7 µg ETO/cm²

mg EtCh/cm² < 0.00511 mg EtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-24-2015

Reviewed by: [illegible]

Date: MAR-24-2015

Set A 1x 72hr

Shaft

COPY

Absorba Tack Fixation Device

**Sample Analysis Data Sheet**

CHEM-029C
REV A

Reorder Code: ABSTACK30 Aeration Time: 72hrs

Lot Number: 1429600001EER Aeration Conditions: ≈105°F

Cycle Number: Z1500129 Extraction Time: 2hr

Component Weight: 10.5591g Extraction Temp. 37c

Sample Weight: 1.5271g Water Weight: 4.3301g

**Ethylene Chlorohydrin**

Dilution Factor: 2.8355

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | < 77.1954 | — | 5.309 | < 14.5 | < 41 | <0.434 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | < 378411 | — | 2580000 | < 1.47 | < 6.37 | < 4 |

Total mg ETO: < 0.0440mg ETO

Dimensions of Sample L= 3.624 OD= 0.548 ID=0.344 Surface Area ($cm^2$) 10.4cm²

µg ETO/ $cm^2$ < 0.613ugETO/cm² mg EtCh/ $cm^2$ < 0.00604 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A - 1X 72hr

COPY

CHEM-033C
REV A

LAPR-CLIP 12MM
Sample Analysis Data Sheet

Reorder Code: 8886848812
Lot Number: 1429600004EER
Cycle Number: 2A500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1560 g
Water Weight 1.3430 g
Component Wt. 0.1560 g
Sample Dimensions (cm) 1.86cm²

Dilution Factor 8.6090
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 1.86cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 125 | < 0.0195 |

**Ethylene Oxide**

Sample Weight 0.1555 g
Component Wt. 0.1555 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 61377 | 60878 | 61128 | 0.4 | 7610 | 8.03 |
| 2 | no response | | — | — | — | — |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 8.03µg sa mar-24-2015
Total mg ETO 0.00803 ~~0.008~~ mg ETO
Dimensions of Sample (cm) 1.86cm²

Residual (ppm) 52ppm
Surface Area (cm²) 1.86cm²

µg EtO/cm² 4.32µg EtO/cm²

mg EtCh/cm² < 0.0105mg EtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-24-2015

Reviewed by: [illegible]

Date: Mar-24-2015

Set A 1X 72hr
Clamp

COPY

Reticulator 55 Poly
Stapler w/ Polysorb Staples

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: 013601 Aeration Time: 72hr

Lot Number: 150090C003EER Aeration Conditions: ≈105°F

Cycle Number: 21500129 Extraction Time: 2hr

Component Weight: 116.296g Extraction Temp. 37C

Sample Weight: 116.296 g Water Weight: 98.468g

**Ethylene Chlorohydrin**

Dilution Factor: ~~0.847~~ 0.8467 SO MAR-24-2015

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 12 | < 1.43 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 930394 | 944016 | 937205 | 0.7 | 258000 | 3.63 | 357 | 3 |

Total mg ETO: 0.357 mg ETO

Dimensions of Sample 136 cm² Surface Area (cm²) 136 cm²

µg ETO/ cm² 2.63 µg ETO/cm² mg EtCh/ cm² < 0.0105 mg EtCh/cm²

Performed by: Lupe M Moreno Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A 1X ~~0~~ 72hr

Staples

COPY

CHEM-033C
REV A

Roticulator 55 Poly
Stapler w / Polyscrb Staples
Sample Analysis Data Sheet

Reorder Code: 013601
Lot Number: 150090000 3EER
Cycle Number: ZA500129

Aeration Time: 0hr
Aeration Conditions: ≈ 105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0911 g
Water Weight 1.3961 g
Component Wt. 0.4517 g
Sample Dimensions (cm) 3( 0.946cm²)

Dilution Factor 15.3749
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.84cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 222 | < 0.100 |

**Ethylene Oxide**

Sample Weight 0.0908 g
Component Wt. 0.4517 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 159836 | 1593165 | 159601 | 0.1 | 7610 | 21.0 |
| 2 | 5134 | 5251 | 5193 | 1.1 | 7610 | 0.682 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 21.7 µg
Total mg ETO 0.108 mg ETO
Dimensions of Sample (cm) 3( 0.946cm²)

Residual (ppm) 239 ppm
Surface Area (cm²) 2.84cm²

µg EtO/cm² 7.64 µg EtO/cm²

mg EtCh/cm² < 0.00713 mgEtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-24-2015

Reviewed by: [illegible]

Date: MAR-24-2015

Set A 1X 72hr
Shaft

CHEM-029C
REV A

COPY

Polysorb Meniscal Stapler

**Sample Analysis Data Sheet**

Reorder Code: 160510 Aeration Time: 72hr

Lot Number: 1426500010EER Aeration Conditions: ≈105°F

Cycle Number: ZA500129 Extraction Time: 2hr

Component Weight: 7.3720g Extraction Temp. 37c

Sample Weight: 1.5098g Water Weight: 5.8168g

**Ethylene Chlorohydrin**

Dilution Factor: 3.8527

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 56 | < 0.412 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | < 378411 | — | 258000 | < 1.47 | < 8.55 | < 6 |

Total mg ETO: ~~0.042~~ mg ETO < 0.0417 so MAR-24-2015

Dimensions of Sample 2.416 x 0.553 x 0.238 Surface Area ($cm^2$) 4.09 $cm^2$

µg ETO/ $cm^2$ < 2.09 µg ETO/$cm^2$ mg EtCh/ $cm^2$ < 0.0206 mg EtCh/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-24-2015

Set A 1X 72hr
Staple

CHEM-033C
REV A

COPY

Polysorb Meniscal Stapler
Sample Analysis Data Sheet

Reorder Code: 160510
Lot Number: 14265 00010 EER
Cycle Number: 21500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0247 g
Water Weight 0.7003 g
Component Wt. 0.0251 g
Sample Dimensions (cm) 0.826cm²

Dilution Factor 28.3522
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 0.826cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | < 411 | <0.0103 |

**Ethylene Oxide**

Sample Weight 0.0239 g
Component Wt. 0.0251 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 150173 | 150416 | 150295 | 0.1 | 7610 | 19.7 |
| 2 | 3122 | 3292 | 3207 | 2.7 | 7610 | 0.421 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 20.1 µg
Total mg ETO 0.0211 mg ETO
Dimensions of Sample (cm) 0.826cm²

Residual (ppm) 841 ppm
Surface Area (cm²) 0.826cm²

µg EtO/cm² 24.3 µg EtO/cm²

mg EtCh/cm² < 0.0123 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Reviewed by: [illegible]

Date: MAR-24-2015
Date: MAR-24-2015

Set A 1X 72hr
Shaft

Poly sorb
Soft Tissue Anchor

CHEM-029C
REV A

COPY

# Sample Analysis Data Sheet

Reorder Code: 273026 Aeration Time: 72hr

Lot Number: 1502600002EER Aeration Conditions: ≈105°F

Cycle Number: ZA500129 Extraction Time: 2hr

Component Weight: 12.4645g Extraction Temp. 37c

Sample Weight: 2.6163g Water Weight: 8.8327g

## Ethylene Chlorohydrin

Dilution Factor: 3.3760

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 49 | < 0.610 |

## Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1296212 | 1318269 | 1307241 | 0.8 | 258000 | 5.07 | 44.8 | 17 |

Total mg ETO: 0.213 mg ETO

Dimensions of Sample L = 3.773 OD = 0.490 Surface Area ($cm^2$) 6.19 $cm^2$

µg ETO/ $cm^2$ 7.24 µg ETO/$cm^2$ mg EtCh/ $cm^2$ < 0.0207 mg EtCh/$cm^2$

Performed by: Lupe L. Jimenez Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-24-2015

Set A 1X 72hr
Suture

COPY

Polysorb Ti-Cron Single 2-0
Soft Tissue Anchor L= 91cm

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: 273026
Lot Number: 150260000 2EER
Cycle Number: ZA500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2728 g
Water Weight 4.3930 g
Component Wt. 0.2739 g
Sample Dimensions (cm) 90.6 ; 0.693

Dilution Factor 16.1034
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 131cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | < 77.1954 | — | 5.309 | < 14.5 | < 233 | < 0.0640 |

**Ethylene Oxide**

Sample Weight 0.1734 g
Component Wt. 0.2739 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 757169 | 757636 | 757403 | 0.03 | 7610 | 99.5 |
| 2 | 98276 | 99262 | 98769 | 0.5 | 7610 | 13.0 |
| 3 | 28847 | 29158 | 29003 | 0.5 | 7610 | 3.81 |
| | | | | | | |

Total ETO content (µg) 116 ug
Total mg ETO 0.183 mg ETO
Dimensions of Sample (cm) 57.6cm ; 0.693

µg EtO/cm² ~~8.05~~ 1.40 ug EtO/cm²
SO MAR 24 2015

Residual (ppm) 669 ppm

Surface Area (cm²) 83.1cm²

mg EtCh/cm² < 0.000486 mg EtCh/cm²

Performed by: Lupe M Jimenez

Date: MAR-24-2015

Reviewed by: [illegible]

Date: MAR-24-2015

Set A 1X 72hr

Anchor

Polysorb

Soft Tissue Anchor

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: 273026 Aeration Time: 72hr
Lot Number: 150260002EER Aeration Conditions: ≈105°F
Cycle Number: Z4500129

**Ethylene Chlorohydrin**

Sample Weight 0.0608 g Dilution Factor 12.5526
Water Weight 0.7632 g Extraction Time 24hr
Component Wt. 0.0608 g Extraction Temp. room temp
Sample Dimensions (cm) 1.975cm² Surface Area 1.975cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | < 77.1954 | — | 5.309 | < 14.5 | < 182 | < 0.0111 |

**Ethylene Oxide**

Sample Weight 0.0608 g Extraction Time 20min
Component Wt. 0.0608 g Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 281907 | 281898 | 281903 | 0.001 | 7610 | 37.0 |
| 2 | 12229 | 12406 | 12318 | 0.7 | 7610 | 1.62 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 38.6ug Residual (ppm) 635ppm
Total mg ETO 0.03866 mg ETO
Dimensions of Sample (cm) 1.975cm² Surface Area (cm²) 1.975cm²

µg EtO/cm² 19.5 ug EtO/cm² mg EtCh/cm² < 0.00560 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A 1X72hr
Shaft / Cartridge

Poly G1A
Stapler with Polysorb Staples

CHEM-029C
REV A

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775 Aeration Time: 72hr

Lot Number: 150090001 2EER Aeration Conditions: ≈105°F

Cycle Number: 24500129 Extraction Time: 2hr

Component Weight: 63.057 g Extraction Temp. 37C

Sample Weight: 63.057 g Water Weight: 110.709 g

### Ethylene Chlorohydrin

Dilution Factor: 1.756

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | <14.5 | < 25 | < 1.61 |

### Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1184198 | 1200348 | 1192273 | 0.7 | 258000 | 4.62 | 511 | 8 |

Total mg ETO: 0.511 mg ETO

Dimensions of Sample 2(9.425 X 1.145 x 1.134) Surface Area ($cm^2$) 91.2cm2

µg ETO/ $cm^2$ 5.60 ug ETO/cm2 mg EtCh/ $cm^2$ < 0.0176 mg EtCh/cm2

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A 1X 72hr

Staples

COPY

CHEM-033C
REV A

PolyGlA
Stapler with Polysorb Staples
Sample Analysis Data Sheet

Reorder Code: 030775
Lot Number: 1500900012EER
Cycle Number: ZA500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0585 g
Water Weight 0.0930 g
Component Wt. 0.6492 g
Sample Dimensions (cm) 5 (0.513cm²)

Dilution Factor 1.5897
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.57cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 23 | < ~~0.015~~ 0.0149 |

so mar-24-2015

**Ethylene Oxide**

Sample Weight 0.0578 g
Component Wt. 0.6492 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 138730 | 138116 | 138423 | 0.2 | 7610 | 18.2 |
| 2 | 2727 | 2847 | 2787 | 2.2 | 7610 | 0.366 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 18.6 ug
Total mg ETO 0.209 mg ETO
Dimensions of Sample (cm) 5 (0.513cm²)

Residual (ppm) 322 ppm
Surface Area (cm²) 2.57cm²

µg EtO/cm² 7.24 µg EtO/cm²

mg EtCh/cm² < 0.000525 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-24-2015

Reviewed by: [signature]
Date: MAR-24-2015

Set A 1x 72hr
Clamp

Premium Polysorb
Loading Unit with Polysorb Staples

CHEM-029C
REV A

COPY

**Sample Analysis Data Sheet**

Reorder Code: 013507L Aeration Time: 72hr

Lot Number: 1502600005EER Aeration Conditions: ≈105°F

Cycle Number: 24500129 Extraction Time: 2hr

Component Weight: 30.743g Extraction Temp. 37c

Sample Weight: 30.743 g Water Weight: 110.507g

**Ethylene Chlorohydrin**

Dilution Factor: 3.595

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | < 71.1954 | — | 5.309 | < 14.5 | < 52. | < 1.60 | |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 610830 | 607282 | 609056 | 0.3 | 258000 | 2.36 | 261 | 8 |

Total mg ETO: 0.261mgETO

Dimensions of Sample 7.192 X 3.729 X 0.779 Surface Area ($cm^2$) 70.7cm²

µg ETO/ $cm^2$ 3.69 ug ETO/cm² mg EtCh/ $cm^2$ < 0.0227 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A 1X 72hr

Staples

COPY

CHEM-033C
REV A

Premium Polysorb
Loading Unit with Polysorb Staples
Sample Analysis Data Sheet

Reorder Code: 013507L
Lot Number: 150260000 5EER
Cycle Number: 2/500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1098 g
Water Weight 0.7780 g
Component Wt. 0.4185 g
Sample Dimensions (cm) 5 ( 0.732cm²)

Dilution Factor 7.0856
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 3.46cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 103 | 0.0430 ~~< 0.043~~ |

SO MAR-24-2015

## Ethylene Oxide

Sample Weight 0.1107 g
Component Wt. 0.4185 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 175286 | 174860 | 175073 | 0.1 | 7610 | 23.0 |
| 2 | 7200 | 7239 | 7220 | 0.3 | 7610 | 0.949 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 24.0 µg ETO
Total mg ETO 0.0907 mg ETO
Dimensions of Sample (cm) 5 ( 0.732 cm²)

Residual (ppm) 217 ppm

Surface Area (cm²) 3.66cm² SO MAR-24-2015

µg EtO/cm² 6.56 µg EtO/cm²

mg EtCh/cm² < ~~0.022~~ 0.00308 ~~0.0219~~ mg EtCh/cm²
LJ MAR-24-2015

Performed by: Lizbeth Jimenez

Date: MAR-24-2015

Reviewed by: [illegible]

Date: MAR-24-2015

Set A 1X 72hr

Shaft | cartridge

Endo G1A

CHEM-029C
REV A

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 72hr

Lot Number: 143116 00003EER Aeration Conditions: ≈105°F

Cycle Number: ZA500129 Extraction Time: 2hr

Component Weight: 33.397g Extraction Temp. 37C

Sample Weight: 33.397 g Water Weight: 118.520g

### Ethylene Chlorohydrin

Dilution Factor: 3.549

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <21287 | — | 1005 | <21.2 | <75 | <2.51 |

### Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 70625 | 72164 | 71095 | 1.5 | 233000 | 0.305 | 36.1 | 1 |

Total mg ETO: 0.036 mg

Dimensions of Sample L= 11cm OD= 1.173 Surface Area ($cm^2$) 42.7

µg ETO/ $cm^2$ 0.85 µg/cm² mg EtCh/ $cm^2$ <0.059 mg/cm²

Performed by: Lacie Crowe Date: ~~3-13-15~~ Mar 13, 2015

Reviewed by: Elizabeth Mineau Date: MAR-13-2015

Set A 1X 72hr
Buttress

Endo GIA

CHEM-033C
REV A

COPY

# Sample Analysis Data Sheet

Reorder Code: EGIATR3360AMT
Lot Number: 1431160000 3EER
Cycle Number: 2A500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.0761 g
Water Weight 2.3949 g
Component Wt. 0.0761 g
Sample Dimensions (cm) 2(7.316x0.999x0.008)

Dilution Factor 31.47
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2(13.4) = 26.8cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| ND | response | <77.1954 | — | 5.309 | <14.54 | <458 | <0.035 |

## Ethylene Oxide

Sample Weight 0.0725 g
Component Wt. 0.0725 g

Extraction Time 20 min
Extraction Temp. 15°C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 560.810 | 544.384 | 552.597 | 1.5 | 35.9 | 15.4 |
| 2 | 19.967 | 20.050 | 20.009 | 0.2 | 35.9 | 0.557 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 16.0 µg
Total mg ETO 0.016 mg
Dimensions of Sample (cm) 2(7.052x0.908x0.007)

Residual (ppm) 221 ppm
Surface Area (cm²) 25.8 cm²

µg EtO/cm² 0.620 µg/cm²

mg EtCh/cm² <0.0013 mg/cm²
1ST MAR 16, 2015

Performed by: Lou Cino

Date: Mar 16, 2015

Reviewed by: Lynette Jimenez

Date: MAR-16-2015

Set A 1X 72hr

Staples

Endo G1A

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: EG1ATR360AMT
Lot Number: 1431600003EER
Cycle Number: ZA500129

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1446 g
Water Weight 0.6806 g
Component Wt. 0.1446 g
Sample Dimensions (cm) 5.18 cm2

Dilution Factor 4.707
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.18 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.54 | <68 | LJT MAR 16 2015 ~~<0.0099~~ <0.010 |

**Ethylene Oxide**

Sample Weight 0.1388 g
Component Wt. 0.1388 g

Extraction Time 10min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <62.646 | – | 35.9 | <1.75 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) <1.75 µg
Total mg ETO <0.0018 mg ~<0.002 mg
Dimensions of Sample (cm) 90 staple <0.0575cm2

Residual (ppm) <13 ppm
Surface Area (cm²) 5.18 cm2

µg EtO/cm² <0.338 LJT MAR-16-2015 ~~<0.34~~ µg/cm2

mg EtCh/cm² <0.002 ~ <0.0019 mg/cm2

Performed by: [signature]

Date: Mar 16, 2015 ~~3-16-15~~ JC 3-16-15

Reviewed by: [signature]

Date: MAR-16-2015

Set A 1X 72hr
Shaft

ReliaTack

COPY

CHEM-029C
REV A

Articulating Reloadable Fixation Device

**Sample Analysis Data Sheet**

Reorder Code: RELTACK3X10 Aeration Time: 72hr

Lot Number: 1432400003EER Aeration Conditions: ≈105°F

Cycle Number: Z4500129 Extraction Time: 2hr

Component Weight: 3.6838g Extraction Temp. 37c

Sample Weight: 1.5956g Water Weight: 7.7877g

**Ethylene Chlorohydrin**

Dilution Factor: 4.8807

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5309 | <14.5 | <71 | <0.261 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | <378411 | — | 258000 | <1.47 | <11.4 | <7 |

Total mg ETO: <0.0263mgETO

Dimensions of Sample L = 2.404 OD = 0.547 ID = 0.389 Surface Area ($cm^2$) 7.30 $cm^2$

µg ETO/ $cm^2$ <1.56 ug ETO/cm² mg EtCh/ $cm^2$ <0.0155mg EtCh/cm²

Performed by: Lysbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set A 1X 72hr

Tach

COPY

ReliaTack

CHEM-033C
REV A

Articulating Reloadable Fixation Device
Sample Analysis Data Sheet

Reorder Code: RELTACK3X10 Aeration Time: 72hr
Lot Number: 1432400003EBR Aeration Conditions: ≈105°F
Cycle Number: Z4500129

**Ethylene Chlorohydrin**

Sample Weight 0.1266 g Dilution Factor 5.9021
Water Weight 0.7472 g Extraction Time 24hr
Component Wt. 0.2555 g Extraction Temp. room temp
Sample Dimensions (cm) 5 (0.596cm²) Surface Area 2.98cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | < 86 | <0.0219 |

**Ethylene Oxide**

Sample Weight 0.1279 g Extraction Time 20min
Component Wt. 0.2555 g Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 540334 | 536659 | 538497 | 0.3 | 7610 | 70.8 |
| 2 | 23630 | 23849 | 23740 | 0.5 | 7610 | 3.12 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 73.9ug Residual (ppm) 578ppm
Total mg ETO 0.148mg ETO
Dimensions of Sample (cm) 5 (0.596cm²) Surface Area (cm²) 2.98cm²

µg EtO/cm² 24.8ug ETO/cm² mg EtCh/cm² < 0.00364mgEtCh/cm²

Performed by: Lysbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

# Aeration Validation

## Set "A"

## 72-Hr Secondary Aeration w/ Vacuum Drying

V-Loc 180: 1436400008EER

V-Loc 180 Reload: 1436400014EER

Maxon: 1436400020EER

Set A 1X 72hr - VAC

CHEM-033D
REV A

COPY

VLOC 180 Size 0 L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 72hr VAC

Lot Number: 14364 00008EER Cycle Number: ZA500129

Sample Weight: 0.1769g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 224928 | 223915 | 224422 | 0.2 | 7730 | 29.0 |
| 2 | 35745 | 36453 | 36099 | 1.0 | 7730 | 4.67 |
| 3 | 2178 | 2281 | 2230 | 2.3 | 7730 | 0.288 |
| | | | | | | |

Total ETO Content: 34.0ug Residual (ppm): 192 ppm

Total weight of component: 0.2116g Total mg ETO: 0.0407 mg ETO

Sample Dimensions (cm) 50.2cm; 7.075 Surface Area of Sample ($cm^2$) 7.10cm2

µg EtO/$cm^2$: 4.79 ug ETO/cm2

Performed by: [signature] Date: MAR-31-2015

Reviewed by: [signature] Date: APR-1-2015

Set A 1X 72hr -VAC

CHEM-033D
REV A

COPY

V-LOC 180 Reload Size 0 L=20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA008L **Aeration Time:** 72hr-VAC

**Lot Number:** 1436400014EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1753g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 236720 | 236978 | 236849 | 0.05 | 7730 | 30.6 |
| 2 | 35299 | 35525 | 35412 | 0.3 | 7730 | 4.58 |
| 3 | 2168 | 2188 | 2178 | 0.5 | 7730 | 0.282 |
| | | | | | | |

**Total ETO Content:** 35.5ug **Residual (ppm):** 203 ppm

**Total weight of component:** 0.0742g **Total mg ETO:** 0.0150 mg ETO

**Sample Dimensions (cm)** 47.3cm ; 7.075 **Surface Area of Sample ($cm^2$)** 6.69cm2

**µg EtO/$cm^2$:** 5.31 ug EtO/cm2

Performed by: [signature] Date: MAR-31-2015

Reviewed by: [signature] Date: APR-1-2015

Set A 1X 72hr-VAC

CHEM-033D
REV A

COPY

Maxon Size 1 L= 90cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 88866626971 **Aeration Time:** 72hr - VAC

**Lot Number:** 1436400020EER **Cycle Number:** ZA500129

**Sample Weight:** 0.1988g **Extraction Time:** 30 mins.

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 317931 | 312036 | 314984 | 0.9 | 7730 | 40.7 |
| 2 | 50491 | 50115 | 50303 | 0.4 | 7730 | 6.51 |
| 3 | 3591 | 3787 | 3689 | 2.7 | 7730 | 0.477 |
| | | | | | | |

**Total ETO Content:** 47.7ug **Residual (ppm):** 240ppm

**Total weight of component:** 0.3178g **Total mg ETO:** 0.0763mg ETO

**Sample Dimensions (cm)** 56.3cm; 7.075 **Surface Area of Sample ($cm^2$)** 7.96cm2

**µg EtO/$cm^2$:** 5.99ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-31-2015

Reviewed by: [illegible] Date: APR-1-2015

# Aeration Validation

## Set "B"

## Absorbable Product

## Blank Samples

V-Loc 90: 1436400005EER

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

Polysorb: 1436400024EER

AbsorbaTack: 1429600002EER

Laproclip: 1429600005EER

Poly Roticulator: 150090004EER

Meniscal Stapler: 1426500011EER

Suture Anchor: 1502600003EER

Poly GIA: 1500900009EER

SPSP 55: 1502600006EER

Reinforced Reload: 1431600004EER

ReliaTack: 1432400004EER

B- Blank

equal amt of suture for 2 pkgs

V-LOC 90 size 2-0 L= 58cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCM0135 Aeration Time: n/a

Lot Number: 1436400006EER Cycle Number: n/a

Sample Weight: 0.1777g Extraction Time: 10min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 14449 | — | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.80 µg Residual (ppm): < 10ppm

Total weight of component: 0.1493g Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 69.0cm, 8.492 Surface Area of Sample ($cm^2$) < 8.13cm²

µg EtO/$cm^2$: < 0.221 µg ETO/cm²

Performed by: [signature] Date: MAR-13-2015

Reviewed by: [signature] Date: Mar 13, 2015

Set B Blank

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCL0536 **Aeration Time:** n/a

**Lot Number:** 1436 4000009EER **Cycle Number:** n/a

**Sample Weight:** 0.13366g **Extraction Time:** 10 min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 14449 | / | 8030 | < 1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.80ug **Residual (ppm):** < 13ppm

**Total weight of component:** 0.2137g **Total mg ETO:** < 0.003mg ETO

**Sample Dimensions (cm)** 37.5cm², 7.075 **Surface Area of Sample (cm²)** 5.30cm²

**µg EtO/cm²:** < 0.340 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** Lou Cinco **Date:** Mar 18, 2015

Set B Blank

CHEM-033D
REV A

COPY

VLOC 180 Reload. Size 0 L= 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC A008L **Aeration Time:** n/a

**Lot Number:** 1436400015EER **Cycle Number:** n/a

**Sample Weight:** 0.2190g **Extraction Time:** 10 min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 14449 | — | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.80 ug **Residual (ppm):** < 8 ppm

**Total weight of component:** 0.0734g **Total mg ETO:** < 0.0006 mg ETO

**Sample Dimensions (cm)** 59.7cm², 7.075 **Surface Area of Sample (cm²)** 8.44cm²

**µg EtO/cm²:** < 0.213 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-18-2015

**Reviewed by:** [signature] **Date:** Mar 18, 2015

Set B Blank

CHEM-033D
REV A

COPY

Maxon Size 1, L=91cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: n/a

Lot Number: 14364 00021EER Cycle Number: n/a

Sample Weight: 0.1647g Extraction Time: 10min

Extraction Temp: 150

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <14449 | — | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.80µg Residual (ppm): <11 ppm

Total weight of component: 0.3161g Total mg ETO: <0.003 mg ETO

Sample Dimensions (cm) 47.4cm; 7.075 Surface Area of Sample ($cm^2$) 6.70cm²

µg EtO/$cm^2$: <0.269 µg EtO/cm²

Performed by: [signature] Date: MAR-13-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set B Blank

Equal amt. of suture per 2pkg
Polysorb Size 2-0 L= 78cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** n/a

**Lot Number:** 1436400024EER **Cycle Number:** n/a

**Sample Weight:** 0.2012g **Extraction Time:** 10min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | < 14449 | — | | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.80ug **Residual (ppm):** < 9ppm

**Total weight of component:** 0.1113g **Total mg ETO:** < ~~0.000~~ 0.0010mg ETO LJ MAR-13-2015

**Sample Dimensions (cm)** 141cm ; 0.386 **Surface Area of Sample (cm²)** 365cm²

**µg EtO/cm²:** < 0.005 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-13-2015

**Reviewed by:** [illegible] **Date:** Mar 18, 2015

Set B blank

CHEM-033D
REV A

AbsorbaTack

Tacks

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** ABSTACK30 **Aeration Time:** N/A

**Lot Number:** 1429160000 2EER **Cycle Number:** N/A

**Sample Weight:** 0.1279g **Extraction Time:** 10 mins.

**Extraction Temp:** 150 C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | – | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.68 µg **Residual (ppm):** <13 ppm

<0.0101 SO MAR-19-2015

**Total weight of component:** 0.7674 g **Total mg ETO:** ~~<0.010~~ mg

**Sample Dimensions (cm)** 5(0.596) **Surface Area of Sample (cm²)** 2.98 cm²

**µg EtO/cm²:** <0.564 ~~<0.56~~ µg/cm²
SO MAR-19-2015

**Performed by:** Joan Cruz **Date:** Mar 18 2015 ~~3-18-15~~ JC 3-18-15

**Reviewed by:** [illegible] **Date:** MAR-19-2015

Set B Blank Shaft

AbsorbaTack

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Lot No.: 1429600002EER

Sample Weight: 1.9124g

Weight of Water: 11.4662g

Component Weight: 10.5591 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | <330023 | — | 238000 | <1.39 | < 15.94 |

JC 3-19-15

Total ETO (mg): <0.0878 ~~<0.088~~ mg SO MAR-19-2015

PPM: <8 ppm

Dimensions of Sample (cm) L=4.462 OD=0.550 ID=0.397

Surface Area ($cm^2$) 13.5 ~~13.4~~ $cm^2$ ~~SO MAR-19-2015~~

µg ETO/$cm^2$ <1.18 ~~<1.14~~ µg/$cm^2$ SO MAR-19-2015

Performed by: [signature] Date: JC 3-19-15 Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
1X Blank
Laproclip

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886848812 Aeration Time: n/a

Lot Number: 1429600005EER Cycle Number: n/a

Sample Weight: 0.4668 g Extraction Time: 10 min

Extraction Temp: 150 C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | — | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg Residual (ppm): <4 ppm

Total weight of component: 0.1556 g Total mg ETO: <0.000560 ~~<0.0006~~ mg
SD MAR-19-2015 ~~1.626 x 0.305 x 0.224~~ VC3-18-15 SD MAR-19-2015

Sample Dimensions (cm) 3 Clips x 1.86 ~~µg~~ cm² Surface Area of Sample (cm²) 5.58 cm²

µg EtO/cm²: <0.301 ~~<0.30~~ µg/cm²
SD MAR-19-2015

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Rotocular Blank B Shaft Clamp

COPY

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 1500900004EER

Sample Weight: 117.206 g

Weight of Water: 105.421 g

Component Weight: 117.206 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2 hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | < 330023 | — | 238000 | < 1.39 | < 147 |

Total ETO (mg): < 0.147 mg ETO

PPM: < 1 ppm

Dimensions of Sample (cm) 136 cm²

Surface Area (cm²) 136 cm²

µg ETO/cm² < 1.08 µg ETO/cm²

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank

Clip
Roticulator

CHEM-033D
REV A

Staples

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 013601 Aeration Time: n/a

Lot Number: 1500900004EEK Cycle Number: n/a

Sample Weight: 0.1503 g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| JC 3-19-15 ~~no~~ | no | response | < ~~330023~~ 50.1057 JC 3-19-15 | — | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg Residual (ppm): <11 ppm

Total weight of component: 0.4517 g Total mg ETO: <0.00505 so MAR-19-2015 ~~<0.0050~~ mg

5 clips ~~2(0.685) 10.459 0.10400~~ so MAR-19-2015

Sample Dimensions (cm) ~~0.662 x 0.130 x 0.100~~ Surface Area of Sample (cm²) 5 x 0.946 = 4.73 cm²

µg EtO/cm²: <0.355 µg/cm²

Performed by: [signature] Date: Mar 18, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank
Meniscal Shaft

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160516

Lot No.: 14650011EEK

Sample Weight: 2.3587 g

Weight of Water: 11.8281 g

Component Weight: 7.3720 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2 hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | <330023 | – | 238000 | <1.39 | <16.4 |

Total ETO (mg): <0.0513 ~~<0.054~~ mg 30 MAR-19-2015

PPM: <7 ppm

Dimensions of Sample (cm) 4.459 x 0.547 x 0.244

Surface Area ($cm^2$) 7.32 $cm^2$

µg ETO/$cm^2$ <2.24 µg/$cm^2$

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank

Staples

meniscal

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 160510 Aeration Time: n/a

Lot Number: 1426500 11 EER Cycle Number: n/a

Sample Weight: 0.0245g Extraction Time: 10 min

Extraction Temp: 100C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | — | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 ug Residual (ppm): <69 ppm

Total weight of component: 0.0245g Total mg ETO: ~~<0.0017 mg~~ <0.001168 SO MAR-19-2015

Sample Dimensions (cm) 0.826 cm² Surface Area of Sample (cm²) 0.826 cm2

µg EtO/cm²: <2.03 ~~<2.0~~ ug/cm² SO MAR-19-2015

Performed by: Jodi Cano Date: Mar 19, 2015

Reviewed by: [illegible] Date: MAR-19-2015

Silicone anchor draft B Blank

COPY

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 273026

Lot No.: 150260000388K

Sample Weight: 4.3548 g

Weight of Water: 10.4687 g

Component Weight: 12.4645 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2 hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | 1330023 | – | 238000 | So mar-19-2015 ~~<1.34~~ <1.39 | ~~<14.0~~ <14.6 |

So mar-19-2015

Total ETO (mg): ~~<0.040~~ <0.0418 mg so mar-19-2015

PPM: 3 ppm

Dimensions of Sample (cm) L=5.317 OD 0.352

OD 0.493
ID = 0.372
L = 5.702

Surface Area (cm²) 6.07 + 15.7 = 21.8 cm²

µg ETO/cm² <0.670 ~~<0.667~~ µg/cm²
So mar-19-2015

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: Mar-19-2015

Set B
Blank
Suture

L= 90 cm. 2-0 Ticron

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 273026 Aeration Time: n/a

Lot Number: 15B2600003EER Cycle Number: n/a

Sample Weight: 0.2692 g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | — | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg Residual (ppm): <6 ppm

Total weight of component: 0.2692 g Total mg ETO: <0.00168 mg ETO ~~<0.0017~~ SO MAR-19-2015

Sample Dimensions (cm) L-90 cm 0.6932 Surface Area of Sample (cm²) 130cm²

µg EtO/cm²: <0.0129 ~~<0.013~~ µg/cm² SO MAR-19-2015

Performed by: [signature] Date: ~~3-18-15~~ 80 MAR-18-2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank

Anchor

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 275026 Aeration Time: n/a

Lot Number: 150260000388K Cycle Number: n/a

Sample Weight: 0.0601 g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | – | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg Residual (ppm): <28 ppm

Total weight of component: 0.0601 g Total mg ETO: <0.00168 ~~<0.0017 mg~~ SO MAR-19-2015

Sample Dimensions (cm) 1.975 cm² Surface Area of Sample (cm²) 1.975 cm²

µg EtO/cm²: <0.851 ~~<0.85 µg/cm²~~
SO MAR-19-2015

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

SET B
Blank
SHAFT + Cartridge

Poly GIA Stapler

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 150900009EER

Sample Weight: 62.565g

Weight of Water: 114.462g

Component Weight: 62.565g

Aeration Time: N/A

Cycle No.: N/A

Extraction Time: 2 HR.

Extraction Temp.: 37°C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| NO | RESPONSE | <330023 | — | 238000 | <1.39 | <159 |

Total ETO (mg): <0.159 mg ETO

PPM: <3 ppm

Dimensions of Sample (cm) 1.162 × 1.129 × 8.302

0.924 × 1.162 × 8.302

Surface Area ($cm^2$) 40.7 + 36.8 = 77.5 $cm^2$

µg ETO/$cm^2$ <2.05 µg ETO/$cm^2$

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank staples

CHEM-033D
REV A

Poly GIA Stapler

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 030775 Aeration Time: n/a

Lot Number: 150900009EER Cycle Number: n/a

Sample Weight: 0.1665g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | – | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 ug Residual (ppm): <10 ppm

Total weight of component: 0.6492 g Total mg ETO: ~~<0.0066~~ <0.00655 mg so MAR-19-2015

Sample Dimensions (cm) 15 x 0.513 Surface Area of Sample ($cm^2$) 7.70 cm²

µg EtO/$cm^2$: <0.218 ~~<0.22~~ ug/cm² so MAR-19-2015

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank
Shaft
Clamp

~~Polysorb~~ ~~55~~ Premium polyserb
~~0244~~
SO MAR-19-2015
Loading unit

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

COPY

Reorder Code: 013507L

Lot No.: 1502600006EEK

Sample Weight: 30.717 g

Weight of Water: 101.242 g

Component Weight: 30.717 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2 hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | < 330023 | / | 238000 | <1.39 | < 141 |

Total ETO (mg): <0.141 mg ETO

PPM: < 5 ppm 3-19-15

Dimensions of Sample (cm) ~~10cm~~ SO MAR-19-2015 77.0 cm²

Surface Area (cm²) 77.0 cm²

µg ETO/cm² <1.83 µg ETO/cm²

Performed by: [signature] Date: Mar 19, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B
Blank
Staples

~~Polysorb~~ ~~SS~~ SO MAR-19-2015

CHEM-033D
REV A

COPY

Premium Polysorb SUTURE Loading Unit

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: 013507L

Aeration Time: n/a

Lot Number: 1502600006EER

Cycle Number: n/a

Sample Weight: 0.2202 g

Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | - | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg

Residual (ppm): <8 ppm

Total weight of component: 0.4185 g

Total mg ETO: ~~<0.0032 mg~~ <0.00319 SO MAR-19-2015

Sample Dimensions (cm) 10ea ~~4.25~~ 0.732 cm² JC 3-19-15

Surface Area of Sample (cm²) 7.32 cm²

µg EtO/cm²: <0.230 ~~<0.23~~ µg/cm²
SO MAR-19-2015

Performed by: [signature] Date: Mar 18, 2015

Reviewed by: [signature] Date: MAR-19-2015

Set B Blank

Shaft. / cartridge

Endo G1A

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Lot No.: 14316B0004EER

Sample Weight: 33.404g

Weight of Water: 125.4ulcg

Component Weight: 33.404g

Aeration Time: —

Cycle No.: n/a

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <483973 | — | 233000 | < 2.08 | < 261 |

Total ETO (mg): < 0.261 mg ETO

PPM: < 8 PPM

Dimensions of Sample (cm) L=11cm OD=1.026

Surface Area ($cm^2$) 37.1cm2

µg ETO/$cm^2$ < 7.04 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-13-2015

Reviewed by: Jade Cruz Date: Mar 18, 2015

Set B Blank Buttress

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT

Aeration Time: n/a

Lot Number: 1431160000 4EER

Cycle Number: n/a

Sample Weight: 0.0732g

Extraction Time: 16 min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <14449 | — | 8030 | <1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.80ug

Residual (ppm): < 25 ppm

Total weight of component: 0.0732g

Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 2(7.026x1.016x0.008)

Surface Area of Sample ($cm^2$) 28.8cm2

µg EtO/$cm^2$: < 0.063ug EtO/cm2

Performed by: Lizbeth Nunez

Date: MAR-13-2015

Reviewed by: Jodi Cino

Date: Mar 18, 2015

Set B Blank Endo GIA

Staples

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: n/a

Lot Number: 1431600004EEER Cycle Number: n/a

Sample Weight: 0.1382g Extraction Time: 10min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 14449 | — | 8030 | < 1.80 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.80 ug Residual (ppm): < 13ppm

Total weight of component: 0.1382 g Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18cm2

µg EtO/$cm^2$: < 0.347 ug ETO/cm2

Performed by: [signature] Date: MAR-18-2015 13
LJ MAR-13-2015

Reviewed by: [signature] Date: Mar 18, 2015

Blank B shaft

COPY

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: Rel tack 3x10

Lot No.: 1432400004 EEK

Sample Weight: 3.5792 g

Weight of Water: 13.2404 g

Component Weight: 3.5792 g

Aeration Time: n/a

Cycle No.: n/a

Extraction Time: 2 hr

Extraction Temp.: 37 C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no | response | 233023 | – | 238000 | <1.39 | <18.4 |

<0.0184 SO MAR-19-2015

Total ETO (mg): ~~<0.018~~ mg

PPM: <5 ppm

Dimensions of Sample (cm) 7.366 OD 0.5451 ID 0.497

Surface Area (cm²) 24.2 cm²

µg ETO/cm² < 0.760 µg/cm²

Performed by: Lori Cino Date: Mar 19, 2015

Reviewed by: [illegible] Date: MAR-19-2015

B
Blank

Tacks

CHEM-033D
REV A

ReliaTack

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: Reliace 3X10 Aeration Time: n/a

Lot Number: 1432400004EEE Cycle Number: n/a

Sample Weight: 0.1838 g Extraction Time: 10 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <50.1057 | – | 29.9 | <1.68 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.68 µg Residual (ppm): <9 ppm

Total weight of component: 0.5514 Total mg ETO: ~~<0.0050~~ <0.00504 mg SO MAR-19-2015

Sample Dimensions (cm) 1.0ea x 0.596 Surface Area of Sample (cm²) 5.96 cm²

µg EtO/cm²: <0.282 ~~<0.28~~ µg/cm² SO MAR-19-2015

Performed by: [signature] Date: Mar 18, 2015

Reviewed by: [signature] Date: MAR-19-2015

# Aeration Validation

## Set "B"

## Absorbable Product

## 0 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

Polysorb: 1436400024EER

AbsorbaTack: 1429600002EER

Laproclip: 1429600005EER

Poly Roticulator: 150090004EER

Meniscal Stapler: 1426500011EER

Suture Anchor: 1502600003EER

Poly GIA: 1500900009EER

SPSP 55: 1502600006EER

Reinforced Reload: 1431600004EER

ReliaTack: 1432400004EER

Set B 0hr IX

CHEM-033D
REV A

COPY

Equal amt of suture per 2pkgs
V-LOC 90 Surg. 2-0 L=57cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC M0135 **Aeration Time:** 0hr

**Lot Number:** 14364000016EER **Cycle Number:** EB500130

**Sample Weight:** 0.1777g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1490809 | 1501424 | 1496117 | 0.4 | 7630 | 19.6 |
| 2 | 81425 | 80156 | 80791 | 0.8 | 7630 | 10.6 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 207 µg **Residual (ppm):** 1165ppm

**Total weight of component:** 0.1510g **Total mg ETO:** 0.176mg ETO

**Sample Dimensions (cm)** 67.1cm; 8.492 **Surface Area of Sample (cm²)** ~~75.6~~ 7.90 cm² JC Mar 18, 2015

**µg EtO/cm²:** ~~2.74~~ 26.2 µg EtO/cm² JC 3-18-15

**Performed by:** [signature] **Date:** MAR-16-2015

**Reviewed by:** [signature] **Date:** Mar 18, 2015

Set B Ohr IX

COPY

CHEM-033D
REV A

V-LOC 180 Size 0, L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: Ohr

Lot Number: 1436400009EER Cycle Number: ZB500130

Sample Weight: 0.1846g Extraction Time: 30min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1701712 | 1696068 | 1698890 | 0.2 | 7630 | 223 |
| 2 | 222387 | 221477 | 221932 | 0.2 | 7630 | 29.1 |
| 3 | 16673 | 16835 | 16754 | 0.5 | 7630 | 2.20 |
| | | | | | | |

Total ETO Content: LJJ ~~252~~ 254 µg MAR-16-2015 Residual (ppm): 1376ppm

Total weight of component: 0.2118g Total mg ETO: 0.291mg ETO

Sample Dimensions (cm) ~~60cm~~ 52.3 cm; 7.075 LJJ MAR-16-2015 Surface Area of Sample (cm²) ~~8.48~~ 7.39 cm² LJJ MAR-16-2015

µg EtO/cm²: ~~30.0~~ 34.4 µg EtO/cm² LJJ MAR-16-2015

Performed by: Lizbeth Nimency Date: MAR-16-2015

Reviewed by: Jodi Cross Date: Mar 18, 2015

Set B 1X Ohr

CHEM-033D
REV A

Equal amt of suture per 3pkgs
VLOC 180 Reload Size 0 L= 20cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC A008L Aeration Time: Ohr

Lot Number: 14364 00015EER Cycle Number: ZB500130

Sample Weight: 0.2027g Extraction Time: 30 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2020459 | 2010117 | 2015288 | 0.3 | 7630 | 264 |
| 2 | 212912 | 213924 | 213418 | 0.2 | 7630 | 28.0 |
| 3 | 17146 | 17179 | 17163 | 0.1 | 7630 | 2.25 |
| | | | | | | |

Total ETO Content: 294 µg Residual (ppm): 1450 ppm

Total weight of component: 0.0736g Total mg ETO: 0.107 mg ETO

Sample Dimensions (cm) 55.1 cm, 7.075 Surface Area of Sample ($cm^2$) 7.79 cm2

µg EtO/$cm^2$: 37.7 µg EtO/cm2

Performed by: Lisbeth Nimeney Date: MAR-16-2015

Reviewed by: Jodi Cirico Date: Mar 18, 2015

Set . B .1X 0hr

CHEM-033D
REV A

COPY

maxcn sing 1 L= 91cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 8886626971 **Aeration Time:** 0hr

**Lot Number:** 143640002 1EER **Cycle Number:** EB500130

**Sample Weight:** 0.1803g **Extraction Time:** 30min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1570112 | 1568260 | 1569186 | 0.1 | 7630 | 206 |
| 2 | 180239 | 177872 | 179056 | 0.7 | 7630 | 23.5 |
| 3 | 12439 | 12634 | 12537 | 0.8 | 7630 | 1.64 |
| | | | | | | |

**Total ETO Content:** 231 ug **Residual (ppm):** 1281 ppm

**Total weight of component:** 0.3189g **Total mg ETO:** 0.409 mg ETO

**Sample Dimensions (cm)** 51.4 91cm ; 7.075 LJ MAR-16-2015 **Surface Area of Sample (cm²)** 7.27 12.9cm 2 LJ MAR-16-2015

**µg EtO/cm²:** 31.8 17.9 ug ETO/cm2 LJ MAR-16-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-16-2015

**Reviewed by:** Jada Cruz **Date:** Mar 18, 2015

Set B 1x 0hr

CHEM-033D
REV A

COPY

Equal amt of suture for 2pkgs
Polysorb 2-0 L= 77cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 0hr

**Lot Number:** 14364 00024EER **Cycle Number:** ~~ZB~~500130

**Sample Weight:** 0.1995g **Extraction Time:** 20min

**Extraction Temp:** 150

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1147581 | 1141838 | 1144710 | 0.3 | 7630 | 150 |
| 2 | 86383 | 88249 | 87316 | 1.1 | 7630 | 11.4 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 161 ug **Residual (ppm):** 807ppm

**Total weight of component:** 0.1100g **Total mg ETO:** 0.089mg ETO

**Sample Dimensions (cm)** 140cm; ~~0.6993~~ 0.3859 JC 3-18-15 **Surface Area of Sample (cm²)** ~~202~~ 363 cm² JC 3-18-15

**µg EtO/cm²:** ~~0.797~~ 0.444 µg EtO/cm² JC 3-18-15

**Performed by:** Lizbeth Jimenez **Date:** MAR-16-2015

**Reviewed by:** Jade Cirino **Date:** Mar 18, 2015

Set B 1X 0hrs

Tacks

COPY

CHEM-033D
REV A

AbsorbaTack
Absorbable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTAC1430 **Aeration Time:** 0 hrs

**Lot Number:** 14296 00002EFR **Cycle Number:** Z8500130

**Sample Weight:** 0.1282g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 963307 | 963203 | 963255 | 0.005 | 7610 | 127 |
| 2 | 43216 | 43587 | 43402 | 0.4 | 7610 | 5.70 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 133ug **Residual (ppm):** 1037ppm

**Total weight of component:** 0.7634g **Total mg ETO:** 0.792mgETO

**Sample Dimensions (cm)** 5(0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 44.6ug ETO/cm²

**Performed by:** Lizbeth A Jimenez **Date:** MAR.-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1x Ohr
Shaft

Absorbatack
Absorbable Fixation Device
**ETHYLENE OXIDE**

CHEM-029B
REV A

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30
Aeration Time: 0hrs
Lot No.: 1429600002EER
Cycle No.: ZB500130
Sample Weight: 2.1844g
Extraction Time: 2hr
Weight of Water: 7.7162g
Extraction Temp.: 37C
Component Weight: 10.5591g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <378411 | — | 258000 | < 1.47 | < 11.3 |

Total ETO (mg): < 0.0546mg ETO
PPM: < 5PPM
Dimensions of Sample (cm) L=3.931 OD=0.549 ID=0.415
Surface Area ($cm^2$) 12.1cm²
µg ETO/$cm^2$ < 0.934 µg ETO/cm²

Performed by: Lizbeth Ramirez Date: MAR-23-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 0hrs

CHEM-033D
REV A

COPY

LAPR-CLIP 12MM
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 88816848812 **Aeration Time:** ~~0 hrs~~ 0 HRS 80 MAR-24-2015

**Lot Number:** 14291600005EER **Cycle Number:** 23500130

**Sample Weight:** 0.1559g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 242232 | 243544 | 242888 | 0.3 | 7610 | 31.9 |
| 2 | 3167 | 2921 | 3044 | 4.0 | 7610 | 0.400 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 32.3ug **Residual (ppm):** 207ppm

**Total weight of component:** 0.1559g **Total mg ETO:** 0.0323mg ETO

**Sample Dimensions (cm)** 1.86cm² **Surface Area of Sample (cm²)** 1.86cm²

**µg EtO/cm²:** 17.4 ug ETO/cm²

**Performed by:** Lizbeth A Jimenez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 0hrs
Clamp

Roticulator 55 Poly
Stapler w/ Polysorb Staples

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 1500900004EER

Sample Weight: 114.176 g

Weight of Water: 99.013g

Component Weight: 114.176g

Aeration Time: 0hrs

Cycle No.: ZB500130

Extraction Time: 2 HR.

Extraction Temp.: so mar-24-2015 ~~150C~~ 37°C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 4214477 | 4195357 | 4204917 | 0.2 | 258000 | 16.3 | 1614 |

Total ETO (mg): 1.61 mg ETO
PPM: 14 PPM
Dimensions of Sample (cm) 136cm2
Surface Area ($cm^2$) 136cm2
µg ETO/$cm^2$ 11.9 µg ETO/cm2

Performed by: Lizbeth Moreno Date: MAR-23-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set 15 1X 0hrs

CHEM-033D
REV A

Staples

Reticulator 55 Poly
Stapler w / Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013601 **Aeration Time:** 0hrs

**Lot Number:** 150090000 4EER **Cycle Number:** 23500130

**Sample Weight:** 0.0901g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 328978 | 329309 | 329144 | 0.05 | 7610 | 43.3 |
| 2 | 12086 | 12168 | 12127 | 0.3 | 7610 | 1.59 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 44.9ug **Residual (ppm):** 498ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.225mg ETO

**Sample Dimensions (cm)** 3( 0.946cm2) **Surface Area of Sample ($cm^2$)** 2.84cm2

**µg EtO/$cm^2$:** 15.8 ug ETO/cm2

**Performed by:** Lizbeth Nunez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 0hr
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 0hr

Lot No.: 14265000 11EER

Cycle No.: ZB500130

Sample Weight: 1.7690g

Extraction Time: 2hr

Weight of Water: 6.7368g

Extraction Temp.: 37C

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <378411 | — | | 258000 | < 1.47 | < 9.90 |

Total ETO (mg): < 0.041 mg ETO
PPM: < 6 PPM
Dimensions of Sample (cm) 2.686x0.561x0.235
Surface Area ($cm^2$) 4.54 $cm^2$
µg ETO/$cm^2$ < 2.18 ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-23-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X Ohr

Staple

CHEM-033D
REV A

COPY

Meniscal
Polysorb ~~Meniscal~~ Stapler
LJJ MAR-23-2015

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** Ohr

**Lot Number:** 14265 0001 1EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0244g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 295130 | 295067 | 295099 | 0.01 | 7610 | 38.8 |
| 2 | 7516 | 7529 | 7523 | 0.1 | 7610 | 0.989 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 39.8ug **Residual (ppm):** 1631ppm

**Total weight of component:** 0.0244g **Total mg ETO:** 0.0398mg ETO

**Sample Dimensions (cm)** 0.826cm2 **Surface Area of Sample ($cm^2$)** 0.826cm2

**µg EtO/$cm^2$:** 48.2ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X0hr
Shaft

Polysorb
Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ~~030775~~ 273026 RB Mar. 27, 2015

Lot No.: ~~1500900009EER~~ 1502600003EER RB Mar. 27, 2015

Sample Weight: 2.5453g

Weight of Water: 6.7825g

Component Weight: 12.4645g

Aeration Time: 0hr

Cycle No.: ZB500130

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 3719162 | 3734374 | 3726768 | 0.2 | 258000 | 14.4 | 97.7 |

Total ETO (mg): 0.478 mg ETO
PPM: 38 PPM
Dimensions of Sample (cm) L=3.466 OD=0.485
Surface Area ($cm^2$) 5.65$cm^2$
µg ETO/$cm^2$ 17.3ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-23-2015

Reviewed by: [signature] Date: MAR-24-2015

Set B 1X0hr

Suture

CHEM-033D
REV A

Polysorb Ti-Cron
Soft Tissue Anchor L=91cm Size 2-0

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ~~030775~~ 273026 RB Mar. 27, 2015 **Aeration Time:** 0hr

**Lot Number:** ~~150090000 9EER~~ 1502600003 EER RB Mar. 27, 2015 **Cycle Number:** ZB500130

**Sample Weight:** 0.1638g **Extraction Time:** 30min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 945439 | 946993 | 946216 | 0.08 | 7610 | 124 |
| 2 | 143408 | 142327 | 142868 | 0.4 | 7610 | 18.8 |
| 3 | 32457 | 32737 | 32597 | 0.4 | 7610 | 4.28 |
| | | | | | | |

**Total ETO Content:** 147 µg **Residual (ppm):** 897 ppm

**Total weight of component:** 0.2743g **Total mg ETO:** 0.246mg ETO

**Sample Dimensions (cm)** 54.3cm ; 0.693 **Surface Area of Sample (cm²)** 78.4cm²

**µg EtO/cm²:** 1.88 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X Ohrs

Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 0hrs

**Lot Number:** 1502600003EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0611g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 424940 | 424816 | 424878 | 0.01 | 7610 | 55.8 |
| 2 | 19312 | 19241 | 19277 | 0.2 | 7610 | 2.53 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 58.3ug **Residual (ppm):** 954 ppm

**Total weight of component:** 0.0611g **Total mg ETO:** 0.0583mg ETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 29.5 µg EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-23-2015

**Reviewed by:** [signature] **Date:** MAR-24-2015

Set B 1X0hr
Shaft + cartridge

Poly G1A
Stapler with Polyscrb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 150090000 9EER

Sample Weight: 62.633g

Weight of Water: 106.094g

Component Weight: 62.633g

Aeration Time: 0hr

Cycle No.: ZB500130

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 4482512 | 4595312 | 4538912 | 1.2 | 258000 | 17.6 | 1867 |

Total ETO (mg): 1.87cm²

PPM: 30PPM

Dimensions of Sample (cm) 2 ( 9425x1.145x 1.134 )

Surface Area (cm²) 91.2cm²

µg ETO/cm² 20.5µg ETO/cm²

Performed by: Lysbeth Jimenez Date: MAR-23-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 0hr

Poly G1A

CHEM-033D
REV A

COPY

Stapler with Polysorb Staples
Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 0hr

**Lot Number:** 1500900009EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0578g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 293578 | 293638 | 293508 | 0.04 | 7610 | 38.6 |
| 2 | 6797 | 6820 | 6809 | 0.2 | 7610 | 0.895 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 39.5 ug **Residual (ppm):** 683ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.444 mg ETO

**Sample Dimensions (cm)** 5(0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 15.4 ug EtO/cm²

**Performed by:** Lizbeth Nimenez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 0hr
Cleanup

Premium Polysorb Loading Unit
With Polysorb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 013507L

Aeration Time: 0hr

Lot No.: 1502600006EER

Cycle No.: ZB500130

Sample Weight: 30.748g

Extraction Time: 2hr

Weight of Water: 100.45kg

Extraction Temp.: 37c

Component Weight: 30.748g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1837931 | 1859933 | 1848932 | 0.6 | 258000 | 7.17 | 720 |

Total ETO (mg): 0.720 mg ETO
PPM: 23 PPM
Dimensions of Sample (cm) 7.060 X 3.663 X 0.789
Surface Area ($cm^2$) 68.5 $cm^2$
µg ETO/$cm^2$ 10.5 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-23-2015

Reviewed by: [signature] Date: MAR-24-2015

Set B 1X 0hr

Staples

COPY

CHEM-033D
REV A

Premium Polysorb Loading Unit
with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 0hr

**Lot Number:** 1502600006EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1096g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 358263 | 360371 | 359317 | 0.3 | 7610 | 47.2 |
| 2 | 14762 | 14837 | 14800 | 0.3 | 7610 | 1.94 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 49.1ug **Residual (ppm):** 448ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.187mgETO

**Sample Dimensions (cm)** 5( 0.732cm²) **Surface Area of Sample (cm²)** ~~3.66~~ 3.66 SO MAR-24-2015 ~~3.66~~cm²

**µg EtO/cm²:** ~~0.134~~ 13.4 ug EtO/cm² SO MAR-24-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-23-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 0hr

EndoG1A

Shaft / cartridge

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1A TRS60AMT

Aeration Time: 0hr

Lot No.: 1431600004EER

Cycle No.: ZB500130

Sample Weight: 33.589g

Extraction Time: 2hr

Weight of Water: 120.567g

Extraction Temp.: 37C

Component Weight: 33.589g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 569042 | 556182 | 562612 | 1.1 | 295000 | 1.91 | 230 |

Total ETO (mg): 0.230 mg ETO

PPM: 7 PPM

Dimensions of Sample (cm) L = 11cm OD = 1.144

Surface Area ($cm^2$) 41.6 $cm^2$

µg ETO/$cm^2$ 5.53 µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-16-2015.

Reviewed by: Jodie Cruz Date: Mar 27, 2015

Set B 1X 0hr Endo G1A

Buttress

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 0hr

Lot Number: 1431600004EER Cycle Number: ZB500130

Sample Weight: 0.0752g Extraction Time: 20min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1095738 | 1091728 | 1093733 | 0.2 | 7630 | 143 |
| 2 | 46770 | 46628 | 46699 | 0.2 | 7630 | 6.12 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 149ug Residual (ppm): 1981ppm

Total weight of component: 0.0752g Total mg ETO: 0.149mg ETO

Sample Dimensions (cm) 2(7.114X0.981X0.008) Surface Area of Sample ($cm^2$) 28.2cm2

µg EtO/$cm^2$: 5.28ugEtO/cm2

Performed by: [signature] Date: MAR-16-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set B 1X Ohr

Staples

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: Ohr

Lot Number: 1431600004EER Cycle Number: ZB500130

Sample Weight: 0.1398g Extraction Time: 10 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9724 | — | 7630 | <1.27 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.27 µg Residual (ppm): <9 ppm

Total weight of component: 0.1398 g Total mg ETO: < 0.001 mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18 $cm^2$

µg EtO/$cm^2$: < 0.245 µg EtO/$cm^2$

Performed by: Lizbeth Nimeney Date: MAR-16-2015

Reviewed by: Jodi Cirio Date: Mar 18, 2015

Set B 1x0hr
Shaft

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Lot No.: 1432400004EER

Sample Weight: 1.8952g

Weight of Water: 9.4943g

Component Weight: 3.6838g

Aeration Time: 0hr

Cycle No.: ZB00130

Extraction Time: 2hrs

Extraction Temp.: 37°C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <378411 | — | | 258000 | < 1.47 | < 14.0 |

Total ETO (mg): < 0.027mg ETO

PPM: < 7PPM

Dimensions of Sample (cm) L = 3.445 OD = 0.548 ID = 0.388

Surface Area ($cm^2$) 10.4 $cm^2$

µg ETO/$cm^2$ < 1.35µg ETO/$cm^2$

Performed by: Lizbeth Nunenez Date: MAR-23-2015

Reviewed by: [illegible] Date: Mar-24-2015

Set B 1x Ohr
Tacks

CHEM-033D
REV A

COPY

ReliaTack
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** RELTACK3X10 **Aeration Time:** Ohr

**Lot Number:** 1432400004EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1284g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | LJJ MAR-23-2015 ~~936~~ 936668 | 933644 | 935156 | 0.2 | 7610 | 123 |
| 2 | 42461 | 42363 | 42412 | 0.1 | 7610 | 5.57 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 129ug **Residual (ppm):** 1005 ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.257mg ETO

**Sample Dimensions (cm)** 5 (0.596 cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 43.3ug EtO/cm2

**Performed by:** Lizbeth N. Jimenez **Date:** MAR-23-2015

**Reviewed by:** [signature] **Date:** MAR-24-2015

# Aeration Validation

## Set "B"

## Absorbable Product

## 24 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

Polysorb: 1436400024EER

AbsorbaTack: 1429600002EER

Laproclip: 1429600005EER

Poly Roticulator: 150090004EER

Meniscal Stapler: 1426500011EER

Suture Anchor: 1502600003EER

Poly GIA: 1500900009EER

SPSP 55: 1502600006EER

Reinforced Reload: 1431600004EER

ReliaTack: 1432400004EER

Set B 1x 24hr

Shaft / Cartridge

COPY

PolyG1A

Stapler with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Aeration Time: 24hr

Lot No.: 150090009EER

Cycle No.: ZB500130

Sample Weight: 63.061g

Extraction Time: 2hr

Weight of Water: 104.439g

Extraction Temp.: 37c

Component Weight: 63.061g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2802080 | 2802197 | 2802139 | 0.002 | 269000 | 10.4 | 1086 |

Total ETO (mg): 1.09mg ETO

PPM: 17 PPM

Dimensions of Sample (cm) 2(9.232x1.146x1.136)

Surface Area ($cm^2$) 89.4cm2

µg ETO/$cm^2$ 12.1µg ETO/cm2

Performed by: Ruth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 24hr

CHEM-033D
REV A

COPY Staples

Poly GIA
Stapler with Polyscib staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 24hr

**Lot Number:** 1500900009EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0589g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 223673 | 223997 | 223835 | 0.1 | 7820 | 28.6 |
| 2 | 5787 | 5707 | 5747 | 0.7 | 7820 | 0.735 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 29.3ug **Residual (ppm):** 497ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.323 mg ETO

**Sample Dimensions (cm)** 5 (0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 11.4ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-24-2015

Set B 1X 24hr

COPY

Equal amt of suture for 2 ptgs. CHEM-033D REV A

V-LOC 90 Size 2-0. L= 57cm

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: VLOCM0135 Aeration Time: 24hr

Lot Number: 1436400006EER Cycle Number: EB500130

Sample Weight: 0.1658g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 706092 | 705146 | 705619 | 0.1 | 7630 | 92.5 |
| 2 | 33124 | 33078 | 33101 | 0.1 | 7630 | 4.34 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 96.8 ug Residual (ppm): 584 ppm

Total weight of component: 0.14602g Total mg ETO: 0.085mg ETO

Sample Dimensions (cm) 64.6cm², 8.492 Surface Area of Sample (cm²) 7.61cm²

µg EtO/cm²: 12.7 ug ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-16-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set B 1x 24hr

CHEM-033D
REV A

COPY

VLOC 180 Size 0 L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 24hr

Lot Number: 1436400009EER Cycle Number: ZB500130

Sample Weight: 0.1844g Extraction Time: 20min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1044668 | 1044709 | 1044689 | 0.002 | 7630 | 137 |
| 2 | 60690 | 60896 | 60793 | 0.2 | 7630 | 7.97 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 145 µg Residual (ppm): 786ppm

Total weight of component: 0.2117g Total mg ETO: 0.166mg ETO

Sample Dimensions (cm) 52.3 cm; 7.075 Surface Area of Sample ($cm^2$) 7.39cm²

µg EtO/$cm^2$: 19.6 µg EtO/cm²

Performed by: Lizbeth Nimenez Date: MAR-16-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set B 1X 24hr

COPY

Equal amt of suture for 3 pkgs

V-LOC 180 Reload Size 0 L=20cm

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA0080L **Aeration Time:** 24hr

**Lot Number:** 1436400015EER **Cycle Number:** ZB500130

**Sample Weight:** 0.19669 **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 767941 | 759976 | 763959 | 0.5 | 7630 | 100 |
| 2 | 128343 | 128802 | 128573 | 0.2 | 7630 | 16.9 |
| 3 | 11066 | 11083 | 11075 | 0.08 | 7630 | 1.45 |
| | | | | | | |

**Total ETO Content:** 118 µg **Residual (ppm):** 600ppm

**Total weight of component:** 0.0723g **Total mg ETO:** 0.043mg ETO

**Sample Dimensions (cm)** 54.4cm; 7.075 **Surface Area of Sample (cm²)** 7.69cm 2

**µg EtO/cm²:** 15.3 µg ETO/cm2

**Performed by:** [signature] **Date:** MAR-16-2015

**Reviewed by:** [signature] **Date:** Mar 18, 2015

Set B 1X @ 24hr
LJT MAR/16/2015

CHEM-033D
REV A

COPY

Maxcn Size 1 L= 91cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: 24hr

Lot Number: 1436400021EER Cycle Number: 23500130

Sample Weight: 0.1889g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 929607 | 931198 | 930403 | 0.1 | 7630 | 122 |
| 2 | 1163338 | 115285 | 115812 | 0.5 | 7630 | 15.2 |
| 3 | 18709 | 18452 | 18581 | 0.7 | 7630 | 2.44 |
| | | | | | | |

Total ETO Content: 140 ug Residual (ppm): 741 ppm

Total weight of component: 0.31659 Total mg ETO: 0.235 mg ETO

Sample Dimensions (cm) 54.3cm; 7.075 Surface Area of Sample ($cm^2$) 7.67cm2

µg EtO/$cm^2$: 18.3 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-16-2015

Reviewed by: Lodi Cano Date: Mar 18, 2015

Set B 1X 24hr

CHEM-033D
REV A

COPY

Equal amt of suture per 2pkgs
Polysorb Sing 2-0, L= 77cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 24hr

**Lot Number:** 1436400024EER **Cycle Number:** 28500130

**Sample Weight:** 0.1935g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 636987 | 640864 | 638926 | 0.3 | 7630 | 83.7 |
| 2 | 52988 | 52662 | 52825 | 0.3 | 7630 | 6.92 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 90.6ug **Residual (ppm):** 468 ppm

**Total weight of component:** 0.1108g **Total mg ETO:** 0.052 mg ETO

**Sample Dimensions (cm)** 134cm; 0.886 **Surface Area of Sample (cm²)** 347cm²

**µg EtO/cm²:** 0.261 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-16-2015

**Reviewed by:** [signature] **Date:** Mar 18, 2015

Set B 1X 24hrs

Tacks

AbsorbaTack

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** ABSTACK30 **Aeration Time:** 24hr

**Lot Number:** 1429600002EER **Cycle Number:** EB500130

**Sample Weight:** 0.1283g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 836912 | 838497 | 837705 | 0.1 | 7820 | 107 |
| 2 | 38623 | 38819 | 38721 | 0.3 | 7820 | 4.95 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 112 ug **Residual (ppm):** 873 ppm

**Total weight of component:** 0.7634g **Total mg ETO:** 0.666mg ETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 37.6 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set Bix 24hr
Shaff

AbsorbaTack

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Aeration Time: 24hr

Lot No.: 1429600002EER

Cycle No.: ZB500130

Sample Weight: 2.1330g

Extraction Time: 2hr

Weight of Water: 4.2913g

Extraction Temp.: 37c

Component Weight: 10.5591g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | < 357911 | — | 2690000 | < 1.33 | < 5.71 |

Total ETO (mg): < 0.0283mg ETO
PPM: < 3PPM
Dimensions of Sample (cm) L= 3.871 OD= 0.548 - ID= 0.407
Surface Area ($cm^2$) 11.8cm²
µg ETO/$cm^2$ < 0.484µg ETO/cm²

Performed by: Lupe M. Jiménez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 24hrs

CHEM-033D
REV A

COPY

LAPR-CLIP 12MM

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 8886848812 **Aeration Time:** 24hrs

**Lot Number:** 1429600005EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1557g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 157360 | 154535 | 155948 | 0.9 | 7820 | 19.9 |
| 2 | 1830 | 1873 | 1852 | 1.2 | 7820 | 0.237 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 20.1ug **Residual (ppm):** 129 ppm

**Total weight of component:** 0.1557g **Total mg ETO:** 0.0201 mg ETO

**Sample Dimensions (cm)** 1.86cm² **Surface Area of Sample (cm²)** 1.86cm²

**µg EtO/cm²:** 10.8 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 24hr

CHEM-033D
REV A

Staples COPY

Roticulator 55 Poly
Stapler w/ Polysorb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 0136601 **Aeration Time:** 24hrs

**Lot Number:** 1500900004EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0903g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 303628 | 303921 | 303775 | 0.05 | 7820 | 38.8 |
| 2 | 12778 | 12773 | 12776 | 0.02 | 7820 | 1.63 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** ~~23.8~~ 40.4 ug so mar-24-2015 **Residual (ppm):** ~~264~~ 447 ppm so mar-24-2015

**Total weight of component:** 0.4517g **Total mg ETO:** ~~0.119~~ 0.202 mg ETO so mar-24-2015

**Sample Dimensions (cm)** 3(0.946 cm²) **Surface Area of Sample (cm²)** 2.84 cm²

**µg EtO/cm²:** ~~8.38~~ 14.2 ug ETO/cm² so mar-24-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 24hrs
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 24hr

Lot No.: 14265C0011EER

Cycle No.: ZB500130

Sample Weight: 2.2947g

Extraction Time: 2hr

Weight of Water: 7.7763g

Extraction Temp.: 37c

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <357911 | — | 269000 | <1.33 | <10.3 |

Total ETO (mg): 0.0331 mg ETO
PPM: 4 PPM
Dimensions of Sample (cm) 3.608x 0.555x 0.236
Surface Area ($cm^2$) 5.97cm2
µg ETO/$cm^2$ 1.73 µg ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B1X 24hrs
Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 24hrs

**Lot Number:** 14265000 11EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0243g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 272432 | 273210 | 272821 | 0.1 | 7820 | 34.9 |
| 2 | 9353 | 9385 | 9369 | 0.2 | 7820 | 1.20 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 36.1ug **Residual (ppm):** 1486ppm

**Total weight of component:** 0.0243g **Total mg ETO:** 0.0361 mg ETO

**Sample Dimensions (cm)** 0.826cm² **Surface Area of Sample (cm²)** 0.826cm²

**µg EtO/cm²:** 43.7 ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** ~~MAR-23-2015~~ So MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 24hr
Shaft

Polyscrb.
Sof Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ~~030775~~ 273026 RB Mar. 27, 2015

Aeration Time: 24hr

Lot No.: ~~15009000091EER~~ 15026 00003 EER RB Mar. 27, 2015

Cycle No.: ZB500130

Sample Weight: 2.0385g

Extraction Time: 2hr

Weight of Water: 8.5550g

Extraction Temp.: 37c

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 15516330 | 16215926 | 15888963 | 2.1 | 2169000 | 5.91 | 50.6 |

Total ETO (mg): 0.309 mg ETO

PPM: 25 PPM

Dimensions of Sample (cm) L = 3.406 OD = 0.485

Surface Area ($cm^2$) 5.56 $cm^2$

µg ETO/$cm^2$ 9.10 µg ETO/$cm^2$

Performed by: Lysbeth M. Muney Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 24hr

Suture

CHEM-033D
REV A

COPY

Polysorb Ti-Cron

Soft Tissue Anchor L=91cm Size 2-0

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ~~030775~~ 273026 RB Mar. 27, 2015 **Aeration Time:** 24hrs

**Lot Number:** ~~150090000016EER~~ 150260000 3EER RB Mar 27, 2015 **Cycle Number:** ZB500130

**Sample Weight:** 0.1801g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1091504 | 1064717 | 1078111 | 1.2 | 7820 | 138 |
| 2 | 105271 | 109255 | 107263 | 1.9 | 7820 | 13.7 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 152 ug **Residual (ppm):** 844ppm

**Total weight of component:** 0.2742g **Total mg ETO:** 0.231mgETO

**Sample Dimensions (cm)** 59.8cm ; 0.693 **Surface Area of Sample (cm²)** 86.3cm2

**µg EtO/cm²:** 1.76 ug ETO/cm2

**Performed by:** Lizbeth Romero **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1x 24hrs
Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 24hrs

**Lot Number:** 150260 00003EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0611g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 473930 | 472966 | 473448 | 0.1 | 7820 | 60.5 |
| 2 | 27300 | 27466 | 27383 | 0.3 | 7820 | 3.50 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 64.0ug **Residual (ppm):** 1047ppm

**Total weight of component:** 0.0611g **Total mg ETO:** 0.0640mgETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 32.4ug EtO/cm²

**Performed by:** Lizbeth Nimenez **Date:** ~~MAR-28-2015~~ 30 MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-24-2015

Set B1X 24hr Clamp

Premium Polysorb Loading Unit with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013507L

Aeration Time: 24hr

Lot No.: 150260000 6EER

Cycle No.: ZB500130

Sample Weight: 30.723g

Extraction Time: 2hr

Weight of Water: 95.001g

Extraction Temp.: 37c

Component Weight: 30.723g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1495416 | 1534276 | 1514846 | 1.3 | 269000 | 5.63 | 535 |

Total ETO (mg): 0.535mgETO

PPM: 17 PPM

Dimensions of Sample (cm) 7.066x3.839x0.774

Surface Area ($cm^2$) 71.1cm2

µg ETO/$cm^2$ 7.52 µg ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 24hr
Staples

CHEM-033D
REV A

COPY

Premium Polysorb Loading Unit
with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 24hr

**Lot Number:** 1502600006EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1097g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 346634 | 347082 | 346858 | 0.1 | 7820 | 44.4 |
| 2 | 15976 | 15989 | 15983 | 0.04 | 7820 | 2.04 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 46.4 µg **Residual (ppm):** 423ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.177mgETO

**Sample Dimensions (cm)** 5(0.732 cm²) **Surface Area of Sample (cm²)** ~~3.66cm²~~ 3.66 SO mar 2-24-2015

**µg EtO/cm²:** 12.7 ~~0.127~~ µg EtO/cm² SO mar-24-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

Set B 1X 24hr

Endo G1A

Shaft / Cartridge

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Aeration Time: 24hr

Lot No.: 1431600004EER

Cycle No.: EB500130

Sample Weight: 33.883 g

Extraction Time: 2hr

Weight of Water: 115.514 g

Extraction Temp.: 37c

Component Weight: 33.883g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 217858 | 225988 | 221923 | 1.8 | 295000 | 0.752 | 86.9 |

Total ETO (mg): 0.087 mg ETO

PPM: 3 PPM

Dimensions of Sample (cm) L=11cm OD= ~~1.143~~ 1.143 LJT MAR-16-2015

Surface Area ($cm^2$) 41.6cm2

µg ETO/$cm^2$ 2.09 µg ETO/cm2

Performed by: [signature] Date: MAR-16-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set B 1X 24hr
Buttress

EndoG1A

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 24hr

Lot Number: 1431600004EER Cycle Number: ZB500130

Sample Weight: 0.0739g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 485987 | 485352 | 485670 | 0.1 | 7630 | 63.7 |
| 2 | 20672 | 20610 | 20641 | 0.2 | 7630 | 2.71 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 66.4 µg Residual (ppm): 899ppm

Total weight of component: 0.0739g Total mg ETO: 0.066mg ETO

Sample Dimensions (cm) 2(7.197x1.022x0.008) Surface Area of Sample ($cm^2$) 29.6cm²

µg EtO/$cm^2$: 2.24 µg EtO/cm²

Performed by: [signature] Date: MAR-16-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set B 1X 24hr

Staples

EndoGIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: 24hr

Lot Number: 1431600004EER Cycle Number: ZB500130

Sample Weight: 0.1414g Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 9724 | — | 7630 | < 1.27 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.27µg Residual (ppm): < 9ppm

Total weight of component: 0.1414g Total mg ETO: < 0.001mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18cm²

µg EtO/$cm^2$: < 0.245µg EtO/cm²

Performed by: Lizbeth Nimeney Date: MAR-16-2015

Reviewed by: Joan Croso Date: Mar 18, 2015

Set B 1X 24hr
Shaft

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACH3X10

Aeration Time: 24hr

Lot No.: 1432400004EER

Cycle No.: ZB500130

Sample Weight: 1.6598g

Extraction Time: 2hr

Weight of Water: 9.1324g

Extraction Temp.: 37c

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <357911 | — | 269000 | <1.33 | <12.1 |

Total ETO (mg): < 0.0269 mg ETO
PPM: < 7 PPM
Dimensions of Sample (cm) L = 3.107 OD = 0.552 ID = 0.417
Surface Area ($cm^2$) 9.166 $cm^2$
µg ETO/$cm^2$ < 1.25 µg ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-24-2015

Set B 1X 24hr
Tacks

CHEM-033D
REV A

KeliaTack
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** KELTACK3X10 **Aeration Time:** 24hr

**Lot Number:** 1432400004EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1267g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 970901 | 972709 | 971805 | 0.1 | 7820 | 124 |
| 2 | 45249 | 45323 | 45286 | 0.1 | 7820 | 5.79 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 130 µg **Residual (ppm):** 1026 ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.262 mg ETO

**Sample Dimensions (cm)** 5 (0.596 cm²) **Surface Area of Sample (cm²)** 2.98 cm²

**µg EtO/cm²:** 43.6 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-24-2015

# Aeration Validation

## Set "B"

## Absorbable Product

## 48 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

Polysorb: 1436400024EER

AbsorbaTack: 1429600002EER

Laproclip: 1429600005EER

Poly Roticulator: 150090004EER

Meniscal Stapler: 1426500011EER

Suture Anchor: 1502600003EER

Poly GIA: 1500900009EER

SPSP 55: 1502600006EER

Reinforced Reload: 1431600004EER

ReliaTack: 1432400004EER

Set B 1X 48hr

COPY

Equal amt of suture for 2pkgs

V-LOC 90 Sing 2-0 L= 57cm

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCM0135 **Aeration Time:** 48hr

**Lot Number:** 1436400006EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1742g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 513329 | 512441 | 512885 | 0.1 | 7630 | 67.2 |
| 2 | 24823 | 24914 | 24869 | 0.2 | 7630 | 3.26 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 70.5ug **Residual (ppm):** 404ppm

**Total weight of component:** 0.1494g **Total mg ETO:** 0.060mg ETO

**Sample Dimensions (cm)** 66.6cm², 8.492 **Surface Area of Sample (cm²)** 7.84cm²

**µg EtO/cm²:** 8.99 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-16-2015

**Reviewed by:** Joan Cruz **Date:** Mar 18, 2015

Set B 1X 48hr

CHEM-033D
REV A

COPY

VLOC 180 Sing. O. L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCL0536 **Aeration Time:** 48hr

**Lot Number:** 14364 00009EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1869g **Extraction Time:** 20min

**Extraction Temp:** 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 822429 | 831147 | 826788 | 0.5 | 7630 | 108 |
| 2 | 45742 | 45568 | 45655 | 0.2 | 7630 | 5.98 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 114 ug **Residual (ppm):** 610ppm

**Total weight of component:** 0.2134g **Total mg ETO:** 0.130 mg ETO

**Sample Dimensions (cm)** 52.5 cm, 7.075 **Surface Area of Sample ($cm^2$)** 7.42cm2

**µg EtO/$cm^2$:** 15.4 ug ETO/cm2

**Performed by:** Lizbeth Nimenez **Date:** MAR-16-2015

**Reviewed by:** Jack Cirio **Date:** Mar 18, 2015

Set B 1X 48hr

CHEM-033D
REV A

COPY

V-LOC 180 Reload Size 0. L= 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA008L **Aeration Time:** 48hr

**Lot Number:** 1436400015EER **Cycle Number:** EB500130

**Sample Weight:** 0.2022g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 873349 | 875444 | 874397 | 0.1 | 7630 | 115 |
| 2 | 48511 | 48479 | 48495 | 0.03 | 7630 | 6.36 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 121 ug **Residual (ppm):** 598ppm

**Total weight of component:** 0.0722g **Total mg ETO:** 0.043mg ETO

**Sample Dimensions (cm)** 56.0cm; 7.075 **Surface Area of Sample ($cm^2$)** 7.92cm²

**µg EtO/$cm^2$:** 15.3 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-16-2015

**Reviewed by:** Jack Cruz **Date:** Mar 18, 2015

Set B 1x 48hr

CHEM-033D
REV A

COPY

Maxon Size 1 L= 90cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: 48hr

Lot Number: 1436400021EFR Cycle Number: ZB500130

Sample Weight: 0.1801g Extraction Time: 20 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 684687 | 695687 | 690187 | 0.8 | 7630 | 90.5 |
| 2 | 32499 | 32410 | 32455 | 0.1 | 7630 | 4.25 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 94.8 ug Residual (ppm): 526 ppm

Total weight of component: 0.3149g Total mg ETO: 0.166 mg ETO

Sample Dimensions (cm) 51.5cm ; 7.075 Surface Area of Sample ($cm^2$) 7.28 $cm^2$

µg EtO/$cm^2$: 13.0 µg EtO/$cm^2$

Performed by: Lizbeth Nimeney Date: MAR-16-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set B 1X 48hr

Equal amt of suture for 2pkgs

Polysorb Size 2-0. L=78cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 48hr

**Lot Number:** 1436406024EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1950g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 420308 | 422054 | 421181 | 0.2 | 7630 | 55.2 |
| 2 | 34008 | 34288 | 34148 | 0.4 | 7630 | 4.48 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 59.7 ug **Residual (ppm):** 306ppm

**Total weight of component:** 0.1099g **Total mg ETO:** 0.034mg ETO

**Sample Dimensions (cm)** 138cm; 0.386 **Surface Area of Sample ($cm^2$)** 358cm2

**µg EtO/$cm^2$:** 0.167 ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-17-2015

**Reviewed by:** Sara Cirino **Date:** Mar 18, 2015

Set B 1X 48hr

Tacks

CHEM-033D
REV A

COPY

AbsorbaTack Fixation Device

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTACK30 **Aeration Time:** 48hr

**Lot Number:** 1429600002EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1281g **Extraction Time:** 20 mins.

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 657308 | 655051 | 656180 | 0.2 | 7820 | 83.9 |
| 2 | 37897 | 37767 | 37832 | 0.2 | 7820 | 4.84 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 88.7ug **Residual (ppm):** 692ppm

**Total weight of component:** 0.7634g **Total mg ETO:** 0.529mg ETO

**Sample Dimensions (cm)** 5( 0.596cm²) **Surface Area of Sample (cm²)** 2.98cm2

**µg EtO/cm²:** 29.8ug ETO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set B 1X 48hr
Shaft

COPY

AbsorbaTack Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Aeration Time: 48hr

Lot No.: 1429600002EER

Cycle No.: ZB500130

Sample Weight: 1.4939g

Extraction Time: 2hr

Weight of Water: 10.0303g

Extraction Temp.: 37C

Component Weight: 10.5591g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <357911 | — | 269000 | <1.33 | <13.3 |

Total ETO (mg): < 0.094 mg ETO
PPM: < 9 PPM
Dimensions of Sample (cm) L=3.501 OD=0.551 ID=0.409
Surface Area ($cm^2$) 10.8cm²
µg ETO/$cm^2$ < 1.23 ug ETO/cm²

Performed by: Lizbeth Nimeney Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-26-2015

Set B 1X 48hr

CHEM-033D
REV A

COPY

LAPR- CLIP 12 mm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 88868848812 **Aeration Time:** 48hr

**Lot Number:** 1429600005EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1553g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 110821 | 110427 | 110624 | 0.2 | 7820 | 14.1 |
| 2 | 1364 | 1399 | 1382 | 1.3 | 7820 | 0.177 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 14.3ug **Residual (ppm):** 92ppm

**Total weight of component:** 0.1553g **Total mg ETO:** 0.0143mg ETO

**Sample Dimensions (cm)** 1.86cm² **Surface Area of Sample (cm²)** 1.86cm²

**µg EtO/cm²:** 7.69 ug ETO/cm²

**Performed by:** Lizbeth Nunez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set B 1X 48hr
Shaft / Cartridge

Reticulator 55 Poly
Stapler with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

clamp

COPY

## Sample Analysis Data Sheet

Reorder Code: 0131601

Lot No.: 150090000 4EER

Sample Weight: 115.252g

Weight of Water: 93.562g

Component Weight: 115.252g

Aeration Time: 48hr

Cycle No.: ZB500130

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1469482 | 1555875 | 1512679 | 2.9 | 269000 | 5.62 | 526 |

Total ETO (mg): 0.526 mg ETO
PPM: 5 PPM
Dimensions of Sample (cm) 136 cm²
Surface Area (cm²) 136 cm²
µg ETO/cm² 3.87 ug ETO/cm²

Performed by: [signature] Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-26-2015

Set B 1X 48hr
Staples

CHEM-033D
REV A

COPY

Reticulator 55 Poly
Stapler with Polysorb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013601 **Aeration Time:** 48hr

**Lot Number:** 150090000 4EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0906g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 273219 | 273530 | 273375 | 0.1 | 7820 | 35.0 |
| 2 | 13365 | 13440 | 13403 | 0.3 | 7820 | 1.71 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 36.7ug **Residual (ppm):** 405ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.183mg ETO

**Sample Dimensions (cm)** 3( 0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 12.9ug ETO/cm²

**Performed by:** [signature] **Date:** ~~MAR-25-2015~~ 26 MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Set B 1X 48hr
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 48hr

Lot No.: 14265000 11EER

Cycle No.: EB500130

Sample Weight: 1.9739g

Extraction Time: 2hr

Weight of Water: 6.5374g

Extraction Temp.: 37c

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <357911 | — | 269000 | <1.33 | < 8.69 |

Total ETO (mg): < 0.032 mg ETO
PPM: < 4 PPM J
Dimensions of Sample (cm) 2.927 x 0.554 X 0.237
Surface Area ($cm^2$) 4.89 cm2
µg ETO/$cm^2$ < 1.78 ug ETO/cm2

Performed by: [signature] Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-26-2015

Set B 1X 48hr

Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 48hr

**Lot Number:** 14265000 11FER **Cycle Number:** ZB500130

**Sample Weight:** 0.0244g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 249206 | 248002 | 248604 | 0.2 | 7820 | 31.8 |
| 2 | 10284 | 10227 | 10256 | 0.3 | 7820 | 1.31 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 33.1 ug **Residual (ppm):** 1357ppm

**Total weight of component:** 0.0244g **Total mg ETO:** 0.0331mg ETO

**Sample Dimensions (cm)** 0.826cm² **Surface Area of Sample (cm²)** 0.826cm²

**µg EtO/cm²:** 40.1 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set B 1x 48hr
Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 273026

Aeration Time: 48hr

Lot No.: 150260000 3EER

Cycle No.: ZB500130

Sample Weight: 2.3619g

Extraction Time: 2hr

Weight of Water: 9.3329g

Extraction Temp.: 37C

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2040203 | 2055208 | 2047706 | 0.4 | 269000 | 7.61 | 71.0 |

Total ETO (mg): 0.375mg ETO
PPM: 30PPM
Dimensions of Sample (cm) L=3.430 OD=0.487
Surface Area ($cm^2$) 5.62cm2
µg ETO/$cm^2$ 12.6ug ETO/cm2

Performed by: Lupeth Nimeney Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-26-2015

Set B 1X 48hr
Suture

CHEM-033D
REV A

Ti-Cron Size 2-0

COPY

Polysorb Soft Tissue Anchor L = 91cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 48hr

**Lot Number:** 15026000 3EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1842 g **Extraction Time:** 30 min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 939529 | 926881 | 933205 | 0.7 | 7820 | 119 |
| 2 | 139811 | 134102 | 136957 | 2.1 | 7820 | 17.5 |
| 3 | 17124 | 17254 | 17189 | 0.4 | 7820 | 2.20 |
| | | | | | | |

**Total ETO Content:** 139ug **Residual (ppm):** 755 ppm

**Total weight of component:** 0.2733g **Total mg ETO:** 0.206mg ETO

**Sample Dimensions (cm)** 61.3cm ; 0.632 **Surface Area of Sample (cm²)** 97.0cm²

**µg EtO/cm²:** 1.43ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Set B 1x 48hr
Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 48hr

**Lot Number:** 150226 00003 EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0605g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 385082 | 383624 | 384353 | 0.2 | 7820 | 49.2 |
| 2. | 29847 | 30073 | 29960 | 0.4 | 7820 | 3.83 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 53.0 ug **Residual (ppm):** 876 ppm

**Total weight of component:** 0.0605g **Total mg ETO:** 0.0530 mg ETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 26.8ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Set B1X 48hr

Shaft | Cartridge

Poly GIA

Stapler with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775

Aeration Time: 48hr

Lot No.: 150090000 9EER

Cycle No.: ZB500130

Sample Weight: 63.087g

Extraction Time: 2hr

Weight of Water: 111.458g

Extraction Temp.: 37C

Component Weight: 63.087g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1431915 | 1359650 | 1395783 | 2.6 | 269000 | 5.19 | 578 |

Total ETO (mg): 0.578mg ETO

PPM: 9 PPM

Dimensions of Sample (cm) 2 (9.275 x 1.158 x 1.156)

Surface Area ($cm^2$) 91.2cm2

µg ETO/$cm^2$ 6.34 ug ETO/cm2

Performed by: Lizbeth Moreno Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set B1x 48hr
Staples

CHEM-033D
REV A

Poly GIA
Stapler with Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 48hr

**Lot Number:** 150090000 9EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0578g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 193493 | 193278 | 193386 | 0.1 | 7820 | 24.7 |
| 2 | 5348 | 5323 | 5336 | 0.2 | 7820 | 0.682 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 25.4ug ETO **Residual (ppm):** 439 ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.285 mg ETO

**Sample Dimensions (cm)** 5 (0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 9.88 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Set 10 1x 48hr
Staples

COPY

CHEM-033D
REV A

Poly GIA
Stapler with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 48hr

**Lot Number:** 150090000 9EER **Cycle Number:** ZB500130

**Sample Weight:** 0.0578g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 193493 | 193278 | 193386 | 0.1 | 7820 | 24.7 |
| 2 | 5348 | 5323 | 5336 | 0.2 | 7820 | 0.682 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 25.4ug ETO **Residual (ppm):** 439 ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.285 mg ETO

**Sample Dimensions (cm)** 5 (0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 9.88 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Set B 1x 48hr
Clamp

Premium Polyscrb Loading Unit with Polyscrb Stapks

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 0135071

Aeration Time: 48hr

Lot No.: 150260000 6EER

Cycle No.: ZB500130

Sample Weight: 30.540g

Extraction Time: 2hr

Weight of Water: 100.344g

Extraction Temp.: 37C

Component Weight: 30.540g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 996466 | 998725 | 997596 | 0.1 | 269000 | 3.71 | 372 |

Total ETO (mg): 0.372mg ETO
PPM: 12 PPM
Dimensions of Sample (cm) 7.072X 3.684X 0.785
Surface Area ($cm^2$) 69.0cm2
µg ETO/$cm^2$ 5.39ug ETO/cm2

Performed by: [signature] Date: MAR-24-2015

Reviewed by: [signature] Date: MAR-26-2015

Set B 1X 48hr

Staples

CHEM-033D
REV A

COPY

Premium Polysorb Loading Unit with Polysorb Staples.

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 48hr

**Lot Number:** 150260000 6EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1097g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 259189 | 258927 | 259058 | 0.1 | 7820 | 33.1 |
| 2 | 14953 | 14956 | 14955 | 0.01 | 7820 | 1.91 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 35.0ug **Residual (ppm):** 319ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.134mg ETO

**Sample Dimensions (cm)** 5 (0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 9.56ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-24-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

EndoGIA

Set 1X B 48hr

Shaft + Cartridge

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Aeration Time: 48hr

Lot No.: 1431600004EER

Cycle No.: ZB500130

Sample Weight: 33.426g

Extraction Time: 2hr

Weight of Water: 119.182g

Extraction Temp.: 37c

Component Weight: 33.426g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 191027 | 195670 | 193349 | 1.2 | 295000 | 0.1055 | 78.1 |

Total ETO (mg): 0.078mg ETO

PPM: 2 PPM

Dimensions of Sample (cm) L=11cm OD=1.154

Surface Area ($cm^2$) 42.0cm2

µg ETO/$cm^2$ 1.86 µg ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-16-2015

Reviewed by: Joan Cruz Date: Mar 18, 2015

Set B 1X 48hr
Buttress

EG1A

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 48hrs

Lot Number: 1431600004EER Cycle Number: ~~ZB5C0130~~

Sample Weight: 0.0794 g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 440057 | 438030 | 439044 | 0.2 | 7630 | 57.5 |
| 2 | 16433 | 16773 | 16603 | 1.0 | 7630 | ~~2.17~~ |
| | | | | | | 2.18 JC 3-18-15 |
| | | | | | | |

Total ETO Content: 59.7 ug Residual (ppm): 752ppm

Total weight of component: 0.0794g Total mg ETO: 0.060mg ETO

Sample Dimensions (cm) 2(7.408x1.040x0.009) Surface Area of Sample ($cm^2$) 31.2cm²

µg EtO/$cm^2$: 1.91 ug ETO/cm²

Performed by: Lizbeth Nimency Date: MAR-16-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set B 1X 48hr

Staples.

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: 48hr

Lot Number: 1431600004EAR Cycle Number: EBS00130

Sample Weight: 0.1398g Extraction Time: 10min.

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <9724 | — | 7630 | <1.27 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.27 ug Residual (ppm): < 9ppm

Total weight of component: 0.1398g Total mg ETO: < 0.001mgETO

Sample Dimensions (cm) 90staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18cm2

µg EtO/$cm^2$: < 0.245 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-16-2015

Reviewed by: Lori Cino Date: Mar 18, 2015

Set B 1X 48hr

Shaft

ReliaTack

Articulating Reloadable Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Aeration Time: 48hr

Lot No.: 1432400604EER

Cycle No.: ZB500130

Sample Weight: 1.41662g

Extraction Time: 2hr

Weight of Water: 9.2971g

Extraction Temp.: 37c

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | < 357911 | — | | 26900 | <1.33 | < 12.4 |

Total ETO (mg): < 0.031 mg ETO

PPM: < 8 PPM

Dimensions of Sample (cm) L=2.703 OD= 0.~~50~~ 547 ID=0.473

Surface Area (cm$^2$) 8.78cm2

µg ETO/cm$^2$ < 1.41 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-24-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set Bix 48hr

Staples

Tacks

CHEM-033D
REV A

ReliaTack

Articulating Reloadable Fixation Device

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** RELTACK3X10 **Aeration Time:** 48hr

**Lot Number:** 1432400004EEL **Cycle Number:** ZB500130

**Sample Weight:** 0.1277g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 750643 | 751937 | 751290 | 0.1 | 7820 | 96.1 |
| 2 | 45761 | 45458 | 45610 | 0.3 | 7820 | 5.83 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 102ug **Residual (ppm):** 799ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.204mgETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 34.2ug EtO/cm²

**Performed by:** Lizbeth Nimeung **Date:** MAR-24-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

# Aeration Validation

## Set "B"

## Absorbable Product

## 72 Hr. Secondary Aeration

V-Loc 90: 1436400005EER

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

Polysorb: 1436400024EER

AbsorbaTack: 1429600002EER

Laproclip: 1429600005EER

Poly Roticulator: 150090004EER

Meniscal Stapler: 1426500011EER

Suture Anchor: 1502600003EER

Poly GIA: 1500900009EER

SPSP 55: 1502600006EER

Reinforced Reload: 1431600004EER

ReliaTack: 1432400004EER

Set B 1X 72hr

CHEM-033C
REV A

COPY

V-LOC 90 Size ~~90~~ 2-0 L = 57cm LJJ MAR-16-2015

Sample Analysis Data Sheet

Reorder Code: VLOCM0135 Aeration Time: 72hr
Lot Number: 1436400006EER Aeration Conditions: ≈105°F
Cycle Number: ZB500130

**Ethylene Chlorohydrin**

Sample Weight 0.1489 g Dilution Factor 30.59
Water Weight 4.5543 g Extraction Time 24hr
Component Wt. 0.1489 g Extraction Temp. room temp
Sample Dimensions (cm) L=56.5; 8.492 Surface Area 6.65 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <444 | LJJ MAR-18-2015 ~~<0.015~~ <0.066 |

**Ethylene Oxide**

Sample Weight 0.1503 g Extraction Time 20min
Component Wt. 0.1503 g Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1154.562 | 1172.718 | 1163.640 | 0.8 | 30.3 | 38.4 |
| 2 | 57.394 | 57.563 | 57.479 | 0.1 | 30.3 | 1.90 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 40.3 Residual (ppm) 268 ppm
Total mg ETO 0.040 mg
Dimensions of Sample (cm) L=57cm / 8.4917 Surface Area (cm²) ~~4.75~~ 6.71 cm² VC 3-17-2015
µg EtO/cm² VC 3-17-15 ~~8.5~~ 6.01 µg/cm² mg EtCh/cm² MAR-18-2015 LJJ ~~<0.0085~~ mg/cm² <0.010 mg EtCh/cm²

Performed by: [signature] Date: Mar 17, 2015

Reviewed by: [signature] Date: MAR-18-2015

Set B 1X 72hr

COPY

CHEM-033C
REV A

VLOC 180 Size 0 L= 60cm

Sample Analysis Data Sheet

Reorder Code: VLOCL0536
Lot Number: 143640000 9EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈ 105°F

**Ethylene Chlorohydrin**

Sample Weight 0.2055 g
Water Weight 5.2087 g
Component Wt. 0.2055 g
Sample Dimensions (cm) L=58.7075

Dilution Factor 25.35
Extraction Time MAR-16-2015 ~~10~~ 24hr
Extraction Temp. room temp
Surface Area 8.20 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <368 | <0.076 |

**Ethylene Oxide**

Sample Weight 0.1674g g
Component Wt. 0.2127 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2345.338 | 2376.558 | 2360.948 | 0.7 | 30.3 | 77.9 |
| 2 | 144.142 | 145.174 | 144.658 | 0.4 | 30.3 | 4.77 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 82.7
Total mg ETO 0.105 mg
Dimensions of Sample (cm) 47 cm 7.075

Residual (ppm) 494 ppm
Surface Area (cm²) 6.64 cm2

µg EtO/cm² 12.5 µg/cm²

mg EtCh/cm² <0.0098 mg/cm2
LDJ MAR-18-2015

Performed by: Lody Cruco
Date: Mar 17, 2015

Reviewed by: Lupeth Jimenez
Date: MAR 18-2015

Set B 1X 72hr

COPY

Equal amt of suture for 2 pkgs.

V-LOC 180 Reload Size 0 L=20cm

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: VLOCA008L
Lot Number: 1436400015EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1474 g
Water Weight 3.7007 g
Component Wt. 0.0728 g
Sample Dimensions (cm) L=40 ; 7.075

Dilution Factor 25.11
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.65 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.369 | <14.5 | <364 | ~~<0.054~~ LOT MAR-18-2015 <0.027 |

## Ethylene Oxide

Sample Weight 0.1471 g
Component Wt. 0.0742 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2154.235 | 2186.763 | 2170.499 | 0.7 | 30.3 | 71.6 |
| 2 | 111.538 | 107.843 | 109.691 | 1.7 | 30.3 | 3.62 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 75.2
Total mg ETO 0.038mg
Dimensions of Sample (cm) L=40 7.075

Residual (ppm) 511 ppm
Surface Area (cm²) 5.65 cm²

µg EtO/cm² 13.3 ug/cm²

mg EtCh/cm² <0.0095 mg/cm² LOT MAR-18-2015

Performed by: Lody Cruz

Date: Mar 17, 2015

Reviewed by: Lysette A Jimenez

Date: MAR-18-2015

Set 1X B72hr

COPY

CHEM-033C
REV A

Maxon Size: L = 90 cm

Sample Analysis Data Sheet

Reorder Code: 8886626971
Lot Number: 1436400021EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2998 g
Water Weight 5.9629 g
Component Wt. 0.2998 g
Sample Dimensions (cm) 86cm 7.075

Dilution Factor 19.89
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 12.2 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | <288 | <0.086 |

## Ethylene Oxide

Sample Weight 0.2042 g
Component Wt. 0.3144 g

Extraction Time 30 min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2628.993 | 2676.586 | 2652.790 | 0.9 | 30.3 | 87.6 |
| 2 | 366.829 | 366.274 | 366.552 | 0.1 | 30.3 | 12.1 |
| 3 | 32.220 | 34.468 | 33.344 | 3.4 | 30.3 | 1.10 |
| | | | | | | |

Total ETO content (µg) 101 µg
Total mg ETO 0.156 mg ~~0.16 mg 7.075~~ LJS MAR-18-2015 LC3 1715
Dimensions of Sample (cm) L= 58.5 cm 7.075

Residual (ppm) 495 ppm
Surface Area (cm²) 8.27 cm²

µg EtO/cm² 12.2 µg/cm²

mg EtCh/cm² <0.0070 mg/cm² LJS MAR-18-2015

Performed by: [signature]

Date: Mar 17, 2015

Reviewed by: [signature]

Date: MAR-18-2015

Set B 1X 72hr

Equal amt of suture for 2pkgs

Polysorb Size 2-0 L = 78cm

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: L43
Lot Number: 14364 00024EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2216 g
Water Weight 4.3799 g
Component Wt. 0.1107 g
Sample Dimensions (cm) 156cm 0.6932

Dilution Factor 19.76
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 225 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | - | 5.309 | <14.5 | <287 | <0.032 |

## Ethylene Oxide

Sample Weight 0.1976 g
Component Wt. 0.1109 g

Extraction Time 20 min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1127.127 | 1166.878 | 1147.003 | 1.7 | 30.3 | 37.9 |
| 2 | 105.438 | 108.499 | 106.969 | 1.4 | 30.3 | 3.53 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 41.4 µg
Total mg ETO 0.023 mg
Dimensions of Sample (cm) 139cm 0.6932

µg EtO/cm² 0.206 µg/cm²

Residual (ppm) 210 ppm

Surface Area (cm²) 201 cm²

mg EtCh/cm² MAR-18-2015 LTJ ~~<0.0001 mg/cm²~~ <0.0003mg EtCh/cm²

Performed by: Lody Cinco

Date: Mar 17, 2015

Reviewed by: Robert Nimeney

Date: MAR-18-2015

Set B 1x72hr
Tacks

COPY

CHEM-033C
REV A

Absorbatack Fixation Device
Sample Analysis Data Sheet

Reorder Code: ABSTACK30
Lot Number: 1429600002FER
Cycle Number: 28500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1298 g
Water Weight 0.7955 g
Component Wt. 0.7634 g
Sample Dimensions (cm) 5(0.596cm²)

Dilution Factor 6.1287
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.98cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 89 | < 0.068 |

**Ethylene Oxide**

Sample Weight 0.1279 g
Component Wt. 0.7634 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 557947 | 554239 | 556093 | 0.3 | 7820 | 71.1 |
| 2 | 27200 | 26996 | 27098 | 0.4 | 7820 | 3.47 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 74.6ug
Total mg ETO 0.445 mg ETO
Dimensions of Sample (cm) 5(0.596cm²)

Residual (ppm) 583 ppm
Surface Area (cm²) 2.98cm²

µg EtO/cm² 25.0 ug ETO/cm²

mg EtCh/cm² < 0.00387 mg EtCh/cm²

Performed by: [signature]
Date: MAR-26-2015

Reviewed by: [signature]
Date: MAR-27-2015

Set B1X 72hr
Task Shaft
LJ MAR. 26.2015

COPY

CHEM-029C
REV A

Absorbable Fixation Device
**Sample Analysis Data Sheet**

Reorder Code: ABSTACK30 Aeration Time: 72hr

Lot Number: 14296 00002 EER Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 10.5591g Extraction Temp. 37C

Sample Weight: 2.0639g Water Weight: 8.7499g

**Ethylene Chlorohydrin**

Dilution Factor: 4.2395

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 61 | <0.649 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | < 1.66 | < 14.5 | < 7 |

Total mg ETO: < ~~0.074~~ 0.0742 mg ETO SO MAR-27-2015

Dimensions of Sample 3.817 OD= 0.550 ID= 0.381 Surface Area (cm²) LJ MAR-26-2015 11.4 cm²

µg ETO/ cm² < 1.27 ug ETO/cm² mg EtCh/ cm² < 0.0111 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B1X 72hr

CHEM-033C
REV A

COPY

LAPR-CLIP 12MM

Sample Analysis Data Sheet

Reorder Code: 88868488112 (1st MAR 25 2015)
Lot Number: 1429600005EER
Cycle Number: Z8500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1547 g
Water Weight 0.8793 g
Component Wt. 0.1547 g
Sample Dimensions (cm) 1.86cm²

Dilution Factor 5.6839
Extraction Time 24hr
Extraction Temp. roomtemp
Surface Area 1.86cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no | response | < 77.1954 | — | 5.309 | < 14.5 | < 82 | < 0.013 |

**Ethylene Oxide**

Sample Weight 0.1561 g
Component Wt. 0.1561 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 109445 | 107093 | 108269 | 1.1 | 7820 | 13.8 |
| 2 | 1253 | 1198 | 1226 | 2.2 | 7820 | 0.157 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 14.0 ug
Total mg ETO 0.0140 mgETO
Dimensions of Sample (cm) 1.86 cm²

Residual (ppm) 90ppm
Surface Area (cm²) 1.86cm²

µg EtO/cm² 7.53 ug EtO/cm²

mg EtCh/cm² < 0.00685 mg EtCh/cm²

Performed by: Elizabeth Nimeney
Date: MAR-26-2015

Reviewed by: [signature]
Date: MAR-27-2015

Set B 1x 72hr
Clamp

COPY

Reticulator 55 Poly
Stapler with Poly scrb Staples

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: 013601 Aeration Time: 72hr

Lot Number: 150090000 4EER Aeration Conditions: ≈105°F

Cycle Number: EB500130 Extraction Time: 2hr

Component Weight: 114.032 g Extraction Temp. 37c

Sample Weight: 114.032g Water Weight: 99.700g

**Ethylene Chlorohydrin**

Dilution Factor: 0.8743

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 13 | < 1.45 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1007371 | 1102626 | 1054999 | 4.5 | 286000 ~~2870~~ LJT MAR-26-2015 | 3.69 | 368 | 3 |

Total mg ETO: 0.368mg ETO

Dimensions of Sample 136 cm² Surface Area (cm²) 136cm²

µg ETO/ cm² 2.71ug ETO/cm² mg EtCh/ cm² < 0.0106 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B1X 72hr

Staples COPY

Roticulator 55 Poly Stapler with Polysorb Staples

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: 013601
Lot Number: 1500900004EER
Cycle Number: ZB500130

Aeration Time: 72hrs
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.0908 g
Water Weight 0.8844 g
Component Wt. 0.4517 g
Sample Dimensions (cm) 3(0.946cm²)

Dilution Factor 9.7401
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.84cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | < 14.5 | < 141 | < 0.0638 ~~0.064~~ |

SO MAR-27-2015

## Ethylene Oxide

Sample Weight 0.0909 g
Component Wt. 0.4517 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 232633 | 233421 | 233027 | 0.2 | 7820 | 29.8 |
| 2 | 8562 | 8516 | 8539 | 0.3 | 7820 | 1.09 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 30.9ug
Total mg ETO 0.154 mg ETO
Dimensions of Sample (cm) 3(0.946cm²)

Residual (ppm) 340ppm
Surface Area (cm²) 2.84cm²

µg EtO/cm² 10.9ug EtO/cm²

mg EtCh/cm² < 0.00452 mg EtCh/cm²

Performed by: [signature]
Date: MAR-26-2015

Reviewed by: [signature]
Date: MAR-27-2015

Set Blx 72hr
Shaft

COPY

CHEM-029C
REV A

Polysorb Meniscal Stapler

**Sample Analysis Data Sheet**

Reorder Code: 160510 Aeration Time: 72hr

Lot Number: 1426500011EER Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 7.3720g Extraction Temp. 37C

Sample Weight: 2.3011g Water Weight: 8.5664g

**Ethylene Chlorohydrin**

Dilution Factor: 3.7227

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 54 | < 0.398 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | <1.66 | < 14.2 | < 6 |

Total mg ETO: < 0.0455mg ETO

Dimensions of Sample 3.578x0.554x0.237 Surface Area ($cm^2$) 5.92cm²

µg ETO/ $cm^2$ < 2.40 ug ETO/cm² mg EtCh/ $cm^2$ < 0.0210mg EtCh/cm²

Performed by: Lizzeth Nimenez Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set Blx 72hr

Stapler LSS MAR.25.2015

COPY

CHEM-033C
REV A

Polysorb Meniscal Stapler
Sample Analysis Data Sheet

Reorder Code: 160510
Lot Number: 1426500011EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0245 g
Water Weight 0.8182 g
Component Wt. 0.0245 g
Sample Dimensions (cm) 0.826cm²

Dilution Factor 33.3959
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 0.826cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | < 77.1954 | — | 5.309 | <14.5 | < 484 | <0.0119 |

**Ethylene Oxide**

Sample Weight 0.0238 g
Component Wt. 0.0238 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 203037 | 201794 | 202416 | 0.3 | 7820 | 25.9 |
| 2 | 6375 | 6402 | 6389 | 0.2 | 7820 | 0.817 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 26.7 ug
Total mg ETO 0.0267 mg ETO
Dimensions of Sample (cm) 0.826cm²

Residual (ppm) 1122ppm
Surface Area (cm²) 0.826cm²

µg EtO/cm² 32.3 ug EtO/cm²

mg EtCh/cm² < 0.0144 mg EtCh/cm²

Performed by: Lizbeth Jimenez

Date: MAR-26-2015

Reviewed by: [signature]

Date: MAR-27-2015

Set 10 1x 72hr
Shaft

COPY

CHEM-029C
REV A

Polysorb Soft Tissue Anchor
**Sample Analysis Data Sheet**

Reorder Code: 273026 Aeration Time: 72hr

Lot Number: 15026 0000 3EER Aeration Conditions: ≈105 °F

Cycle Number: 23500130 Extraction Time: 2hr

Component Weight: 12.4645g Extraction Temp. 37c

Sample Weight: 2.7476g Water Weight: 9.6688g

**Ethylene Chlorohydrin**

Dilution Factor: 3.5190

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | <14.5 | < 51 | <0.636 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1144636 | 1204541 | 1174589 | 2.6 | 286000 | 4.11 | 39.7 | 14 |

Total mg ETO: 0.180mg ETO

Dimensions of Sample L = 3.778 OD = 0.490 Surface Area ($cm^2$) 6.19cm2

µg ETO/ $cm^2$ 6.41 ug ETO/cm2 mg EtCh/ $cm^2$ < 0.0226 mg EtCh/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set B1x72hr
Suture

COPY

Polysorb Soft Tissue Anchor
Ti-Cron Size 2-0 L=91cm

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: 273026
Lot Number: 1502600003EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.2729 g
Water Weight 5.3174 g
Component Wt. 0.2729 g
Sample Dimensions (cm) 91cm; 0.693

Dilution Factor 19.4848
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 131cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 283 | < 0.0771 |

**Ethylene Oxide**

Sample Weight 0.1789 g
Component Wt. 0.2710 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 231805 | 232646 | 232226 | 0.2 | 7820 | 29.7 |
| 2 | 52220 | 50907 | 51564 | 1.3 | 7820 | 6.59 |
| 3 | 7111 | 6960 | 7036 | 1.1 | 7820 | 0.900 |
| | | | | | | |

Total ETO content (µg) 37.2ug ETO
Total mg ETO 0.0564 mg ETO
Dimensions of Sample (cm) 60.1cm ; 0.693

Residual (ppm) 208ppm
Surface Area (cm²) 86.7cm²

µg EtO/cm² 0.429ug EtO/cm²

mg EtCh/cm² < 0.000589 mg EtCh/cm²

Performed by: Elizabeth Nimenez
Date: MAR-26-2015

Reviewed by: [signature]
Date: MAR-27-2015

Set B 1X 72hr
Anchor

CHEM-033C
REV A

COPY

Polysorb Soft Tissue Anchor
Sample Analysis Data Sheet

Reorder Code: 273026
Lot Number: 150260000 3EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0610 g
Water Weight 1.4776 g
Component Wt. 0.0610 g
Sample Dimensions (cm) 1.975cm²

Dilution Factor 24.2230
Extraction Time 24hr
Extraction Temp. roomtemp
Surface Area 1.975cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 351 | ~~< 0.021~~ < 0.0214 |

SO MAR 2-27-2015

**Ethylene Oxide**

Sample Weight 0.0609 g
Component Wt. 0.0609 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 311043 | 311873 | 311458 | 0.1 | 7820 | 39.8 |
| 2 | 16401 | 16546 | 16474 | 0.4 | 7820 | 2.11 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 41.9ug
Total mg ETO 0.0419 mg ETO
Dimensions of Sample (cm) 1.975cm²

Residual (ppm) 688ppm
Surface Area (cm²) 1.975cm²

µg EtO/cm² 21.2ug ETO/cm²

mg EtCh/cm² < 0.0108 mg EtCh/cm²

Performed by: [signature]
Date: MAR-26-2015

Reviewed by: [signature]
Date: MAR-27-2015

Set 01X 72hr
Shaft / Cartridge
Poly GIA
Stapler with Polysorb Staples

CHEM-029C
REV A

COPY

# Sample Analysis Data Sheet

Reorder Code: 030775 Aeration Time: 72hr

Lot Number: 150090009EER Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 62.311g Extraction Temp. 37C

Sample Weight: 62.311g Water Weight: 110.582g

## Ethylene Chlorohydrin

Dilution Factor: 1.7747

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | < 77.954 | — | | 5.309 | < 14.5 | < 26 | < 1.60 |

## Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1208 5606 | 1162215 | 1185391 | ~~2.1~~ 2.0 | 2860000 | 4.14 | 458 | 7 |

SA MAR-27-2015

Total mg ETO: 0.458 mg ETO

Dimensions of Sample 2 (9.221 x 1.145 x 1.124) Surface Area (cm²) 88.8cm²

µg ETO/ cm² 5.16 ug ETO/cm² mg EtCh/ cm² < 0.0181 mg EtCh/cm²

Performed by: Elizabeth Jimenez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B 1x 72hr

Staples

COPY

CHEM-033C
REV A

Poly G1A
Stapler with Polyscrb Staples
Sample Analysis Data Sheet

Reorder Code: 030775
Lot Number: 15009000009EER
Cycle Number: 28500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.0572 g
Water Weight 1.4290 g
Component Wt. 0.6492 g
Sample Dimensions (cm) 5( 0.513cm²)

Dilution Factor 24.9825
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.57cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 362 | <0.235 |

## Ethylene Oxide

Sample Weight 0.05716 g
Component Wt. 0.6492 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 168280 | 168156 | 168218 | 0.04 | 7820 | 21.5 |
| 2 | 4280 | 4256 | 4268 | 0.3 | 7820 | 0.546 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 22.0 ug ETO
Total mg ETO 0.248mg ETO
Dimensions of Sample (cm) 5(0.513cm²)

Residual (ppm) 382 ppm
Surface Area (cm²) 2.57cm²

µg EtO/cm² 8.56 ug ETO/cm²

mg EtCh/cm² < 0.00806 mg EtCh/cm²

Performed by: [signature]

Date: MAR-26-2015

Reviewed by: [signature]

Date: MAR-27-2015

Set 10 1x 72hr
Cleanup

COPY

Premium Polysorb
Loading Unit with Polysorb Staples

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: 0135072 Aeration Time: 72hr

Lot Number: 1502600006 EER Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 30.550g Extraction Temp. 37c

Sample Weight: 30.550g Water Weight: 102.9166g

**Ethylene Chlorohydrin**

Dilution Factor: 3.3704

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | < 14.5 | < 49 | < 1.49 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 710811 | 695047 | 702929 | 1.1 | 286000 | 2.46 | 253 | 8 |

Total mg ETO: 0.253mg ETO

Dimensions of Sample 7.048 x 3.694 x 0.786 Surface Area ($cm^2$) 69.0cm2

µg ETO/ $cm^2$ 3.67 ug ETO/cm2 mg EtCh/ $cm^2$ < 0.0216 mg EtCh/cm2

Performed by: Rupert Nunez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B1X 72hr

Staples

CHEM-033C
REV A

Premium Polyscrb
Loading Unit with Polyscrb Staples
Sample Analysis Data Sheet

COPY

Reorder Code: 013507L Aeration Time: 72hr
Lot Number: 150260000 6EER Aeration Conditions: ≈105°F
Cycle Number: ZB500130

**Ethylene Chlorohydrin**

Sample Weight 0.1097 g Dilution Factor 11.3446
Water Weight 1.2445 g Extraction Time 24hr
Component Wt. 0.4185 g Extraction Temp. room temp
Sample Dimensions (cm) 5( 0.732 cm²) Surface Area 3.66cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | <164 | <0.0688 |

**Ethylene Oxide**

Sample Weight 0.1107 g Extraction Time 20min
Component Wt. 0.4185 g Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 256442 | 255642 | 256042 | 0.2 | 7820 | 32.7 |
| 2. | 12262 | 12312 | 12287 | 0.2 | 7820 | 1.57 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 34.3ug Residual (ppm) 310 ppm
Total mg ETO 0.138 mg ETO
Dimensions of Sample (cm) 5( 0.732cm²) Surface Area (cm²) 3.66cm²

µg EtO/cm² 9.37 ug EtO/cm² mg EtCh/cm² < 0.00493 mgEtCh/cm²

Performed by: Lizbeth Menendez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B1X 72hr Endo G1A

CHEM-029C
REV A

Shaft + cartridge

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 72hr

Lot Number: 1431600004EEP Aeration Conditions: ≈105°F

Cycle Number: ZB500130 Extraction Time: 2hr

Component Weight: 33.480g Extraction Temp. 37c

Sample Weight: 33.480 g Water Weight: 121.574g

### Ethylene Chlorohydrin

Dilution Factor: 3.629

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | <53 | <1.76 |

### Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 95171 | 97367 | 96269 | 1.1 | 295000 | 0.326 | 39.6 | 1 |

Total mg ETO: 0.040 mg

Dimensions of Sample L=11cm OD=1.181 Surface Area ($cm^2$) 43.0 $cm^2$

µg ETO/ $cm^2$ 0.921 ug/cm² mg EtCh/ $cm^2$ <0.041 mg/cm²

Performed by: [signature] Date: Mar 17, 2015

Reviewed by: [signature] Date: MAR-18-2015

Set B 1x 72hr

EndoGIA
Buttress

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT
Lot Number: 1431600004EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0721 g
Water Weight 2.7526 g
Component Wt. 0.0721 g
Sample Dimensions (cm) 2(6.647x1.035x0.007)

Dilution Factor 38.18
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2(13.9) = 27.8 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | <554 | <0.040 |

**Ethylene Oxide**

Sample Weight 0.0712 g
Component Wt. 0.0712 g

Extraction Time 20 min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 714.571 | 727.070 | 720.821 | 0.9 | 30.3 | 23.8 |
| 2 | 27.869 | 29.024 | 28.447 | 2.0 | 30.3 | 0.939 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 24.7
Total mg ETO 0.025 mg
Dimensions of Sample (cm) 2(6.401x0.998x0.007)

µg EtO/cm² 0.957 ~~0.96~~ µg/cm²
LOJ MAR-18-2015

Residual (ppm) 347ppm
Surface Area (cm²) 2x12.9 = 25.8 cm2
mg EtCh/cm² <0.0014 mg/cm2
LOJ MAR-18-2015

Performed by: [signature]
Date: Mar 17, 2015

Reviewed by: [signature]
Date: MAR-18-2015

Set 1x B72hr

Endo G1A

Staples COPY

CHEM-033C
REV A

# Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT
Lot Number: 1431600004EER
Cycle Number: ZB500130

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1437 g
Water Weight 1.2375 g
Component Wt. 0.1437 g
Sample Dimensions (cm) 90x00575cm²

Dilution Factor 8.493
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 5.18 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <17.1954 | — | 5.309 | <14.5 | <123 | <0.018 |

## Ethylene Oxide

Sample Weight 0.1440 g
Component Wt. 0.1440 g

Extraction Time 10min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <51.228 | — | 30.3 | <1.69 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) <1.69
Total mg ETO <0.002 ~~<0.0017~~ mg LJJMAR-18-2015
Dimensions of Sample (cm) 90x00575

µg EtO/cm² <0.326 ~~<0.33~~ µg/cm² LJJMAR-18-2015

Residual (ppm) <12 ppm

Surface Area (cm²) 5.18 cm²

mg EtCh/cm² <0.0038 mg/cm² LJJMAR-18-2015

Performed by: [signature]

Date: Mar 17, 2015

Reviewed by: [signature]

Date: MAR-18-2015

Set B1X 72hr
Shaft

COPY

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: RELTACH3X10 Aeration Time: 72hr

Lot Number: 1432400004EER Aeration Conditions: ≈105°F

Cycle Number: 2B500130 Extraction Time: 2hr

Component Weight: 3.6838g Extraction Temp. 37C

Sample Weight: 1.1815g Water Weight: 6.5287g

**Ethylene Chlorohydrin**

Dilution Factor: 5.5258

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | < 14.5 | < 80 | < 0.295 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no | response | <382746 | — | 286000 | < 1.34 | < 8.75 | < 7 |

Total mg ETO: < 0.0273mgETO

Dimensions of Sample L = 2.211 OD = 0.549 ID = 0.419 Surface Area ($cm^2$) 6.92 $cm^2$

µg ETO/ $cm^2$ < 1.26 ug ETO/cm² mg EtCh/ $cm^2$ < 0.0137 mg EtCh/cm²

Performed by: Lizbeth Nunez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set B1X 72hrs
Tacks

COPY

ReliaTack

CHEM-033C
REV A

Articulating Reloadable Fixation Device
Sample Analysis Data Sheet

Reorder Code: RELTACK3X10 Aeration Time: 72hr
Lot Number: 14324 00004EER Aeration Conditions: ≈ 105°F
Cycle Number: 2B500130

**Ethylene Chlorohydrin**

Sample Weight 0.1275 g Dilution Factor 12.9600
Water Weight 1.6524 g Extraction Time 24hr
Component Wt. 0.2555 g Extraction Temp. room temp
Sample Dimensions (cm) 5(0.596cm²) Surface Area 2.98cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | < 188 | <0.0480 |

**Ethylene Oxide**

Sample Weight 0.1283 g Extraction Time 20min
Component Wt. 0.2555 g Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 685604 | 680173 | 682889 | 0.4 | 7820 | 87.3 |
| 2 | 38349 | 38084 | 38217 | 0.3 | 7820 | 4.89 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 92.2ug Residual (ppm) ~~724~~ 719 ppm SO mar-27-2015
Total mg ETO 0.184 mg ETO
Dimensions of Sample (cm) 5(0.596cm²) Surface Area (cm²) 2.98cm²

µg EtO/cm² 30.9ug EtO/cm² mg EtCh/cm² < 0.00804 mgEtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-26-2015
Reviewed by: [illegible] Date: mar-27-2015

# Aeration Validation

## Set "B"

## 72-Hr Secondary Aeration w/ Vacuum Drying

V-Loc 180: 1436400009EER

V-Loc 180 Reload: 1436400015EER

Maxon: 1436400021EER

~~Set~~ B 1X 72hr - VAC

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L= 60cm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** VLOCL0536 **Aeration Time:** 72hr-VAC

**Lot Number:** 1436400009EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1708g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 248406 | 249943 | 249175 | 0.3 | 7730 | 32.2 |
| 2 | 31315 | 31327 | 31321 | 0.02 | 7730 | 4.05 |
| 3 | 2883 | 2862 | 2873 | 0.3 | 7730 | 0.372 |
| | | | | | | |

**Total ETO Content:** 36.6ug **Residual (ppm):** 214ppm

**Total weight of component:** 0.2135g **Total mg ETO:** 0.0458 mg ETO

**Sample Dimensions (cm)** 48.0cm ; 7.075 **Surface Area of Sample ($cm^2$)** 6.78cm²

**µg EtO/$cm^2$:** 5.40ug ETO/cm²

Performed by: [signature] Date: MAR-01-2015

Reviewed by: [signature] Date: APR-1-2015

Set B 1X 72hr VAC

COPY

CHEM-033D
REV A

V-LOC 180 Reload Size 0 L= 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA008L **Aeration Time:** 72hr VAC

**Lot Number:** 1436400015EER **Cycle Number:** ZB500130

**Sample Weight:** 0.1751g **Extraction Time:** 30min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 241986 | 245311 | 243649 | 0.7 | 7730 | 31.5 |
| 2 | 34059 | 34207 | 34133 | 0.2 | 7730 | 4.42 |
| 3 | 2085 | 2028 | 2057 | 1.4 | 7730 | 0.266 |
| | | | | | | |

**Total ETO Content:** 36.2 ug **Residual (ppm):** 207ppm

**Total weight of component:** 0.0733g **Total mg ETO:** 0.0152 mg ETO

**Sample Dimensions (cm)** 47.8cm; 7.075 **Surface Area of Sample ($cm^2$)** 6.76cm 2

**µg EtO/$cm^2$:** 5.36 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-31-2015

Reviewed by: [illegible] Date: APR-1-2015

Set B 1x 72hr VAC

COPY

CHEM-033D
REV A

Maxon Size 1 L= 90cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 88866626971 Aeration Time: 72hr-VAC

Lot Number: 1436400021EER Cycle Number: ZB500130

Sample Weight: 0.1658g Extraction Time: 30min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 293820 | 294936 | 294378 | 0.2 | 7730 | 38.1 |
| 2 | 29752 | 29506 | 29629 | 0.4 | 7730 | 3.83 |
| 3 | 1528 | 1598 | 1563 | 2.2 | 7730 | 0.202 |
| | | | | | | |

Total ETO Content: 42.1 ug Residual (ppm): 254 ppm

Total weight of component: 0.3144g Total mg ETO: 0.0798 mg ETO

Sample Dimensions (cm) 475 cm ; 7.075 Surface Area of Sample ($cm^2$) 6.71 $cm^2$

µg EtO/$cm^2$: 6.27 ug ETO/$cm^2$

Performed by: [signature] Date: MAR-31-2015

Reviewed by: [signature] Date: APR-1-2015

# Aeration Validation

## Set "C"

## Absorbable Product

## Blank Samples

V-Loc 90: 1436400007EER

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Polysorb: 1436400025EER

AbsorbaTack: 1429600003EER

Laproclip: 1429600006EER

Poly Roticulator: 150090005EER

Meniscal Stapler: 1426500012EER

Suture Anchor: 1502600004EER

Poly GIA: 1500900010EER

SPSP 55: 1502600007EER

Reinforced Reload: 1431600005EER

ReliaTack: 1432400005EER

Set C. Blank

CHEM-033D
REV A

COPY

Equal amt of suture for 2 pkgs
V-LOC 90 Size 2-0. L=59cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOC M0135 **Aeration Time:** n/a

**Lot Number:** 14364 00007EER **Cycle Number:** n/a

**Sample Weight:** 0.1873g **Extraction Time:** 10 min

**Extraction Temp:** 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13397 | — | 7590 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.77 µg **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.1497g **Total mg ETO:** < 0.001 mg ETO

**Sample Dimensions (cm)** 59cm; ~~8.492~~ 73.8 LJJ MAR-17-2015 **Surface Area of Sample (cm²)** ~~6.95cm²~~ 8.69 LJJ MAR-17-2015

**µg EtO/cm²:** < ~~0.255~~ 0.204 µg ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-17-2015

**Reviewed by:** Lori Cino **Date:** Mar 18, 2015

Set C Blank

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L=60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: n/a

Lot Number: 1436400010EER Cycle Number: n/a

Sample Weight: 0.1743g Extraction Time: 10 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 µg Residual (ppm): < 10 ppm

Total weight of component: 0.2144g Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) ~~60cm~~ 48.8, 7.075 LJ MAR-17-2015 Surface Area of Sample ($cm^2$) ~~8.48cm²~~ 6.90 LJ MAR-17-2015

µg EtO/$cm^2$: < ~~0.209~~ 0.257 µg EtO/cm² LJ MAR-17-2015

Performed by: Lizbeth Nimency Date: MAR-17-2015

Reviewed by: Jodi Crow Date: Mar 18, 2015

Set C. Blank

CHEM-033D
REV A

COPY

Equal amt of suture for 3pkgs -
V-LOC 180 Reload. Size 0 L=20cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** VLOCA068L **Aeration Time:** N/A

**Lot Number:** 1436400016EER **Cycle Number:** N/A

**Sample Weight:** 0.2235g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13397 | — | 7590 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.77 µg **Residual (ppm):** <8ppm

**Total weight of component:** 0.0737g **Total mg ETO:** < 0.0006mg ETO

**Sample Dimensions (cm)** 60.7cm², 7.075 **Surface Area of Sample (cm²)** 8.58cm²

**µg EtO/cm²:** < 0.206 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-17-2015

**Reviewed by:** [signature] **Date:** Mar 18, 2015

Set C Blank

CHEM-033D
REV A

COPY

Maxon Size 1 L=91cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: N/A

Lot Number: 1436400022EER Cycle Number: N/A

Sample Weight: 0.1706g Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 µg Residual (ppm): < 10 ppm

Total weight of component: 0.3173g Total mg ETO: < 0.003mg ETO

Sample Dimensions (cm) ~~9~~ 48.9 cm, 7.075 LJ MAR-17-2015 Surface Area of Sample (cm²) ~~12.9~~ 6.91 cm² LJ MAR-17-2015

µg EtO/cm²: < ~~0.137~~ 0.256 µg EtO/cm² LJ MAR-17-2015

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C Blank

Equal amt of suture for 2pkgs

Polysorb Size 2-0 L= 78cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: L43 Aeration Time: n/a

Lot Number: 1436400025EER Cycle Number: n/a

Sample Weight: 0.1977g Extraction Time: 10 min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 µg Residual (ppm): < 9 ppm

Total weight of component: 0.1114g Total mg ETO: < 0.0010 mg ETO

Sample Dimensions (cm) 138cm, 0.386 Surface Area of Sample ($cm^2$) 358cm2

µg EtO/$cm^2$: < 0.005 µg EtO/cm2

Performed by: Lizbeth A. Nimeney Date: MAR-17-2015

Reviewed by: Jack Crowe Date: Mar 18, 2015

Set C Blank
Tacks

CHEM-033D
REV A

COPY

AbsorbaTack Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTACK30 **Aeration Time:** —

**Lot Number:** 1429160003EER **Cycle Number:** —

**Sample Weight:** 0.1268g **Extraction Time:** 10 mins.

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 11016 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 µg **Residual (ppm):** < 11 ppm

**Total weight of component:** 0.7634g **Total mg ETO:** < 0.00873mg ETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** < 0.487 µg ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank
Shaft

CHEM-029B
REV A

AbsorbaTack Fixation Device
# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Lot No.: 14296 00003EER

Sample Weight: 1.5949 g

Weight of Water: 8.2798g

Component Weight: 10.5591g

Aeration Time: —

Cycle No.: —

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | < 1.66 | < 13.7 |

Total ETO (mg): < 0.0967 mg ETO
PPM: < 9 PPM
Dimensions of Sample (cm) L = 2.926 OD = 0.550 ID = 0.420
Surface Area ($cm^2$) 9.11 cm2
µg ETO/$cm^2$ < 1.50 ug ETO/cm2

Performed by: Lisbeth Nimency Date: MAR-26-2015

Reviewed by: [illegible] Date: Mar-27-2015

Set C Blank

CHEM-033D
REV A

COPY

LAPR-CLIP 12mm

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 8886848812 **Aeration Time:** —

**Lot Number:** 1429600006EER **Cycle Number:** —

**Sample Weight:** 0.1563g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <11016 | — | 7580 | <1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** <1.45ug **Residual (ppm):** <9ppm

**Total weight of component:** 0.1563g **Total mg ETO:** <0.00145 mg ETO

**Sample Dimensions (cm)** 1.86cm2 **Surface Area of Sample ($cm^2$)** 1.86cm2

**µg EtO/$cm^2$:** <0.780 ug EtO/cm2

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank
Clamp

Roticulator 55 Poly
Stapler with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Lot No.: 150090000 5EER

Sample Weight: 114.707g

Weight of Water: 103.299g

Component Weight: 114.707g

Aeration Time: —

Cycle No.: —

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | <1.66 | <171 |

Total ETO (mg): <0.117 mg ETO
PPM: <1 PPM
Dimensions of Sample (cm) 136cm2
Surface Area ($cm^2$) 136cm2
µg ETO/$cm^2$ <1.26 ug ETO/cm2

Performed by: Lizbeth Nunez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set C Blank
Staples

COPY

CHEM-033D
REV A

Roticulater 55 Poly
Stapler with Polysorb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013601 **Aeration Time:** —

**Lot Number:** 150090000 5EER **Cycle Number:** —

**Sample Weight:** 0.09069 **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 11016 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 ug **Residual (ppm):** < 16 ppm

**Total weight of component:** 0.4517g **Total mg ETO:** < 0.00723 mg ETO

**Sample Dimensions (cm)** 3(0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** < 0.511 ug EtO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Lot No.: 1426500012EFR

Sample Weight: 1.5003g

Weight of Water: 5.3871g

Component Weight: 7.3720g

Aeration Time: —

Cycle No.: —

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <40899 | — | 247000 | < 1.66 | < 8.94 |

Total ETO (mg): < 0.0439 mg ETO
PPM: < 6 PPM
Dimensions of Sample (cm) 2.260x0.550x0.236
Surface Area ($cm^2$) 3.81cm2
µg ETO/$cm^2$ < 2.35 ug ETO/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C Blank
Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** —

**Lot Number:** 1426500012EEP **Cycle Number:** —

**Sample Weight:** 0.0247g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <110116 | — | 7580 | <1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 µg **Residual (ppm):** < 59 ppm

**Total weight of component:** 0.0247g **Total mg ETO:** < 0.00145 mg ETO

**Sample Dimensions (cm)** 0.826 cm² **Surface Area of Sample (cm²)** 0.826 cm²

**µg EtO/cm²:** < 1.76 µg ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank

COPY

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 273026

Lot No.: 1502600004EFR

Sample Weight: 2.2930g

Weight of Water: 8.9992g

Component Weight: 12.4645g

Aeration Time: —

Cycle No.: —

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 408996 | — | 247000 | < 1.66 | < 14.9 |

Total ETO (mg): < 0.0810 mg ETO

PPM: < 6PPM

Dimensions of Sample (cm) L=3.449 OD= 0.487

Surface Area ($cm^2$) 5.65 $cm^2$

µg ETO/$cm^2$ < 2.64ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set C Blank
Suture

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
Ti-Cron Size 2-0 L=91cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** —

**Lot Number:** 1502600004EER **Cycle Number:** —

**Sample Weight:** 0.16236g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <11016 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45ug **Residual (ppm):** < 9 ppm

**Total weight of component:** 0.27364g **Total mg ETO:** < 0.00244mgETO

**Sample Dimensions (cm)** 54.00m ; 0.693 **Surface Area of Sample (cm²)** 77.9cm 2

**µg EtO/cm²:** < 0.0186ugETO/cm2

**Performed by:** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C Blank
Anchor

CHEM-033D
REV A

COPY

Polyscrb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** —

**Lot Number:** 1502600004EER **Cycle Number:** —

**Sample Weight:** 0.0607g **Extraction Time:** 10 min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 11016 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 µg **Residual (ppm):** < 24ppm

**Total weight of component:** 0.0607g **Total mg ETO:** < 0.00145 mg ETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** < 0.734 ug ETO/cm²

**Performed by:** Lisbeth Nunez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank
Shaft / Cartridge

Poly GIA
Stapler with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 1500900010EER

Sample Weight: 62.232g

Weight of Water: 109.604g

Component Weight: 62.232 g

Aeration Time: /

Cycle No.: /

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | < 1.66 | < 182 |

Total ETO (mg): < 0.182mg ETO
PPM: < 3 PPM
Dimensions of Sample (cm) 2(9.101x1.146x1.126)
Surface Area ($cm^2$) 87.8 cm2
µg ETO/$cm^2$ < 2.07 µg ETO/cm2

Performed by: Lizbeth Nimenez Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C Blank

CHEM-033D
REV A

Staples

COPY

Poly GIA
Stapler with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** —

**Lot Number:** 150090001OETER **Cycle Number:** —

**Sample Weight:** 0.0585g **Extraction Time:** 10min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 11016 | — | 7580 | <1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 µg **Residual (ppm):** < 25ppm

**Total weight of component:** 0.6492g **Total mg ETO:** < 0.016 mg ETO

**Sample Dimensions (cm)** 5 (0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** < 0.564 µg ETO/cm²

**Performed by:** Lysbeth Ramirez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set c Blank Clamp

Premium Polysorb Loading Unit with Polysorb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 0135071

Lot No.: 1502600007EER

Sample Weight: 30.737g

Weight of Water: 95.793g

Component Weight: 30.737g

Aeration Time: /

Cycle No.: /

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <408996 | — | | 247000 | < 1.66 | < 159 |

Total ETO (mg): < 0.159 mg ETO

PPM: < 5 PPM

Dimensions of Sample (cm) 7.152 x 3.707 x 0.783

Surface Area (cm²) ~~70.3 cm²~~ 70.0 cm² BEJ MAR-27-2015

µg ETO/cm² ~~<2.272 µg~~ ETO/cm² SO MAR-27-2015

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C Blank
Staples

CHEM-033D
REV A

COPY

Premium Polysorb Loading Unit with Polysorb Staples.

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 0135071L **Aeration Time:** —

**Lot Number:** 1502600007EER **Cycle Number:** —

**Sample Weight:** 0.1100g **Extraction Time:** 10min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 11016 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45 µg **Residual (ppm):** < 13ppm

**Total weight of component:** 0.4185g **Total mg ETO:** < 0.00552mgETO

**Sample Dimensions (cm)** 5(0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** < 0.396ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C Blank

EndoGIA

CHEM-029B
REV A

COPY

Snap + Cartridge

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT

Lot No.: 143160000 5EER

Sample Weight: 33.483g

Weight of Water: 120.680g

Component Weight: 33.483g

Aeration Time: N/A

Cycle No.: N/A

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <472004 | — | 245000 | < 1.93 | < 233 |

Total ETO (mg): < 0.233mg ETO

PPM: < 7PPM

Dimensions of Sample (cm) L=11cm OD=1.191

Surface Area ($cm^2$) 43.4cm²

µg ETO/$cm^2$ < 5.37 µg ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Jack Cruz Date: Mar 27 2015

Set C. Blank
Buttress

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: n/a

Lot Number: 1431600005EER Cycle Number: n/a

Sample Weight: 0.0721g Extraction Time: 10min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | <13397 | — | 7590 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.77µg Residual (ppm): <25 ppm

Total weight of component: 0.0721g Total mg ETO: <0.002 mg ETO

Sample Dimensions (cm) 2(7.071x1.018x0.009) Surface Area of Sample ($cm^2$) 29.0cm2

µg EtO/$cm^2$: <0.061 µg EtO/cm2

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C Blank

Staples

Endo G1A

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: n/a

Lot Number: 1431600005EER Cycle Number: n/a

Sample Weight: 0.1442g Extraction Time: 10 min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 µg Residual (ppm): < 12 ppm

Total weight of component: 0.1442g Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18 $cm^2$

µg EtO/$cm^2$: < 0.342 µg EtO/$cm^2$

Performed by: Elizabeth [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C Blank

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Lot No.: 1432400005EER

Sample Weight: 1.6770g

Weight of Water: 10.1104g

Component Weight: 3.6838g

Aeration Time: —

Cycle No.: —

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | <1.66 | <16.8 |

Total ETO (mg): <0.0369 mg ETO

PPM: <10 PPM

Dimensions of Sample (cm) L = 3.059 OD = 0.552 ID = 0.417

Surface Area ($cm^2$) 9.52cm2

µg ETO/$cm^2$ <1.76 ug ETO/cm2

Performed by: [signature] Date: MARCH 26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C Blank

CHEM-033D
REV A

Tacks

ReliaTack
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** RELTACK3X10 **Aeration Time:** —

**Lot Number:** 1432400005EER **Cycle Number:** —

**Sample Weight:** 0.1282g **Extraction Time:** 10 min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 110116 | — | 7580 | < 1.45 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** < 1.45ug **Residual (ppm):** < 11 ppm

**Total weight of component:** 0.7634g **Total mg ETO:** < 0.00863mg ETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** < 0.487 ug EtO/cm²

**Performed by:** Elizabeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

# Aeration Validation

## Set "C"

## Absorbable Product

## 0 Hr. Secondary Aeration

V-Loc 90: 1436400007EER

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Polysorb: 1436400025EER

AbsorbaTack: 1429600003EER

Laproclip: 1429600006EER

Poly Roticulator: 150090005EER

Meniscal Stapler: 1426500012EER

Suture Anchor: 1502600004EER

Poly GIA: 1500900010EER

SPSP 55: 1502600007EER

Reinforced Reload: 1431600005EER

ReliaTack: 1432400005EER

Set C. 1X. 0hr

Equal amt of suture for 2pkgs.

V-LOC 90 Size 2-0, L=56cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC MO 135 Aeration Time: 0hr

Lot Number: 143640000 7EER Cycle Number: ZA500136

Sample Weight: 0.1867g Extraction Time: 20min.

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1528707 | 1537087 | 1532897 | 0.3 | 7590 | 202 |
| 2 | 96224 | 95277 | 95751 | 0.5 | 7590 | 12.6 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 215 µg Residual (ppm): 1152 ppm

Total weight of component: 0.1483g Total mg ETO: 0.171 mg ETO

Sample Dimensions (cm) 70.5cm, 8.492 Surface Area of Sample ($cm^2$) 8.30 $cm^2$

µg EtO/$cm^2$: 25.9 ug EtO/$cm^2$

Performed by: Lupeth Nuncney Date: MAR-17-2015

Reviewed by: Jodi Cirino Date: Mar 18, 2015

Set C .1x .0hr

CHEM-033D
REV A

COPY

V-LOC 180 Sings O L-60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 0hr

Lot Number: 14364D0010EER Cycle Number: Z1500136

Sample Weight: 0.1681g Extraction Time: 20 min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1477785 | 1452666 | 1465226 | 0.9 | 7590 | 193 |
| 2 | 94462 | 95070 | 947666 | 0.3 | 7590 | 12.5 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 206 ug Residual (ppm): 1225 ppm

Total weight of component: 0.2126g Total mg ETO: 0.261 mg ETO

Sample Dimensions (cm) ~~60cm~~ 47.4; 7.075 Surface Area of Sample (cm²) ~~8.48cm 2~~ 6.70

LJJ MAR. 17. 2015 LJJ MAR. 17. 2015

µg EtO/cm²: ~~24.3~~ 30.7 ug ETO/cm2

LJJ MAR. 17. 2015

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Joe Cino Date: Mar 27, 2015

Set 1 x C 0hr

Equal amt of Suture for 3pkg

CHEM-033D
REV A

COPY

V-LOC 180 Reload. Size 0 L=20cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCA008L

Aeration Time: 0hr

Lot Number: 1436400016EER

Cycle Number: ZA500136

Sample Weight: 0.1964g

Extraction Time: 20min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1720958 | 1719241 | 1720100 | 0.05 | 7590 | 227 |
| 2 | 130226 | 129180 | 129703 | 0.4 | 7590 | 17.1 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 244 µg

Residual (ppm): 1242ppm

Total weight of component: 0.0748g

Total mg ETO: 0.093mg ETO

Sample Dimensions (cm) 52.5cm; 7.075

Surface Area of Sample ($cm^2$) 7.42cm²

µg EtO/$cm^2$: 32.9 µg EtO/cm²

Performed by: Elizabeth Nimency

Date: MAR-17-2015

Reviewed by: Jade Cruz

Date: Mar 18, 2015

Set C 1x 0hr

CHEM-033D
REV A

COPY

~~Y-LOC~~ JC 3-18-15 Maxon Size = 1 L = 91cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: 0hr

Lot Number: 1436400022 EER Cycle Number: ZA500136

Sample Weight: 0.1697g Extraction Time: 20min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1418031 | 1422640 | 1420336 | 0.2 | 7590 | 187 |
| 2 | 842603 | 83705 | 83984 | 0.3 | 7590 | 11.1 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 198 ug Residual (ppm): 1167 ppm

Total weight of component: 0.3152g 49.0 Total mg ETO: 0.368mg ETO 6.93

Sample Dimensions (cm) 91cm, 7.075 LJJ MAR-17-2015 Surface Area of Sample (cm²) ~~12.9~~cm² LJJ MAR-17-2015

µg EtO/cm²: ~~28.6~~ LJJ MAR-17-2015 28.6 ug EtO/cm²

Performed by: Lubette Jimenez Date: MAR-17-2015

Reviewed by: Lara Cino Date: Mar 18, 2015

Set. C 1x 0hr

Equal amt of suture for 2pkg

Polysorb 2-0 L=78cm

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: L43 Aeration Time: 0hr

Lot Number: 1436400025EER Cycle Number: ZA500136

Sample Weight: 0.1960g Extraction Time: 30min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1106089 | 1095421 | 1100755 | 0.5 | 7590 | 145 |
| 2 | 109991 | 110418 | 110205 | 0.2 | 7590 | 14.5 |
| 3 | 11344 | 11430 | 11387 | 0.4 | 7590 | 1.50 |
| | | | | | | |

Total ETO Content: 161 µg Residual (ppm): 821 ppm

Total weight of component: 0.1113g Total mg ETO: 0.091 mg ETO

Sample Dimensions (cm) 137cm; 0.386 Surface Area of Sample ($cm^2$) 355 $cm^2$

µg EtO/$cm^2$: 0.454 µg EtO/$cm^2$

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C 1X0hr

Tacks

CHEM-033D
REV A

Absorbatack Fixation Device

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTACK30 **Aeration Time:** 0hr

**Lot Number:** 1429600003EER **Cycle Number:** Z1500136

**Sample Weight:** 0.1280g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 797908 | 793426 | 795667 | 0.3 | 7820 | 102 |
| 2 | 53228 | 52582 | 52905 | 0.6 | 7820 | 6.77 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** ~~108~~ 109 ug so mar-26-2015 **Residual (ppm):** ~~844~~ 852 ppm so mar-26-2015

**Total weight of component:** 0.7634g **Total mg ETO:** ~~0.644~~ 0.650 mg ETO so mar-26-2015

**Sample Dimensions (cm)** 5(0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** ~~36.63~~ 36.2 ug EtO/cm² so mar-26-2015

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** Mar-26-2015

Set C 1x 0hr
Shaft

AbsorbaTech Fixation Device

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACH30

Lot No.: 1429600003EER

Sample Weight: 1.8727g

Weight of Water: 9.8176g

Component Weight: 10.5591g

Aeration Time: 0hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <382746 | — | | 286000 | < 1.34 | < 13.2 |

Total ETO (mg): < 0.074 mg ETO
PPM: < 7 PPM
Dimensions of Sample (cm) L=3.452 OD=0.549 ID=0.417
Surface Area ($cm^2$) 10.7 $cm^2$
µg ETO/$cm^2$ < 1.23 ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-25-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set C 1X 0hr

CHEM-033D
REV A

COPY

LAPR-CLIP 12mm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 8886848812 **Aeration Time:** 0hr

**Lot Number:** 1429600006EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1562g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 153243 | 151654 | 152449 | 0.5 | 7820 | 19.5 |
| 2 | 2138 | 2174 | 2156 | 0.8 | 7820 | 0.276 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 19.8ug ETO **Residual (ppm):** 127ppm

**Total weight of component:** 0.1562g **Total mg ETO:** 0.0198mg ETO

**Sample Dimensions (cm)** 1.86cm² **Surface Area of Sample (cm²)** 1.86cm²

**µg EtO/cm²:** 10.6 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set C 1x Ohr
Clamp.

Reticulator 55 Poly
Stapler with Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Aeration Time: Ohr

Lot No.: 150090000 5EER

Cycle No.: ZA500136

Sample Weight: 116.467 g

Extraction Time: 2hr

Weight of Water: 99.919 g

Extraction Temp.: 37c

Component Weight: 116.467 g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2782936 | 2905949 | 2844443 | 2.2 | 286000 | 9.95 | 994 |

Total ETO (mg): 0.994 mg ETO

PPM: 9 PPM

Dimensions of Sample (cm) 136 cm²

Surface Area (cm²) 136 cm²

µg ETO/cm² 7.31 ug ETO/cm²

Performed by: [signature] Date: MAR-25-2015

Reviewed by: [signature] Date: MAR-26-2015

Set C 1x 0hr
Staples

CHEM-033D
REV A

COPY

Roticulator 55 Poly
Stapler with Polyscrb Staples

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 0136601 **Aeration Time:** 0hr

**Lot Number:** 150090000 5EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0906g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 308273 | 308183 | 308228 | 0.01 | 7820 | 39.4 |
| 2 so mar-26-2015 | 15967 | 16096 | 16032 | 0.4 | 7820 | 2.05 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 41.5 ug **Residual (ppm):** 458ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.207mg ETO

**Sample Dimensions (cm)** 3(0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 14.6 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set C 1x 0hr
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 0hr

Lot No.: 1426500012EER

Cycle No.: ZA500136

Sample Weight: 2.0803g

Extraction Time: 2hr

Weight of Water: 9.6930g

Extraction Temp.: 37C

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 382746 | — | 286000 | < 1.34 | < 13.0 |

Total ETO (mg): < 0.0461 mg ETO

PPM: < 6 PPM

Dimensions of Sample (cm) 2.690x ~~0.045~~ x 0.555x 0.235 LST MAR 25-2015

Surface Area ($cm^2$) 4.51 $cm^2$

µg ETO/$cm^2$ < 2.88 µg ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-25-2015

Reviewed by: [signature] Date: MAR-26-2015

SetC 1X 0hr
Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 0hr

**Lot Number:** 1426500012EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0244g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 303364 | 302525 | 302945 | 0.1 | 7820 | 38.7 |
| 2 | 15999 | 16279 | 16139 | 0.9 | 7820 | 2.06 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 40.8ug **Residual (ppm):** 1672ppm

**Total weight of component:** 0.0244g **Total mg ETO:** 0.0408mg ETO

**Sample Dimensions (cm)** 0.826cm² **Surface Area of Sample (cm²)** 0.826cm²

**µg EtO/cm²:** 49.4ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-25-2015

**Reviewed by:** [signature] **Date:** Mar-26-2015

Set C 1X 0hr
Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 273026

Lot No.: 1502600004EER

Sample Weight: 3.4008g

Weight of Water: 9.2216g

Component Weight: 12.4645g

Aeration Time: 0hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 3028517 | 3032733 | 3030625 | 0.1 | 286000 | 10.6 | 97.7 |

Total ETO (mg): 0.358mg ETO
PPM: 29 PPM
Dimensions of Sample (cm) 3.985x OD= 0.491 ID= N/A
Surface Area ($cm^2$) 6.53 $cm^2$
µg ETO/$cm^2$ 15.0ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-25-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set C 1X 0hr
Suture

COPY

CHEM-033D
REV A

Polysorb Soft Tissue Anchor
Ti-Cron Size 2-0 L= 91cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 0hr

**Lot Number:** 15026000004EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1924g **Extraction Time:** 30min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1696268 | 1599233 | 1647751 | 2.9 | 7820 | 211 |
| 2 | 164532 | 164425 | 164479 | 0.03 | 7820 | 21.0 |
| 3 | 28431 | 28686 | 28559 | 0.4 | 7820 | 3.65 |
| | | | | | | |

**Total ETO Content:** 236ug **Residual (ppm):** 1227ppm

**Total weight of component:** 0.2744g **Total mg ETO:** 0.337mg ETO

**Sample Dimensions (cm)** 63.8cm; 0.693 **Surface Area of Sample (cm²)** 92.1cm²

**µg EtO/cm²:** 2.56ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set C 1x 0hr
Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 2730216 **Aeration Time:** 0hr

**Lot Number:** 150260000 4EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0608g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 378766 | 375816 | 377291 | 0.4 | 7820 | 48.2 |
| 2 | 36811 | 36919 | 36865 | 0.1 | 7820 | 4.71 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 52.9ug **Residual (ppm):** 870 ppm

**Total weight of component:** 0.0608g **Total mg ETO:** 0.0529mg ETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 26.8ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set C 1x 0hr
Shaft 1 Cartridge

Poly G1A
Stapler with Polysorb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 150090001OEFR

Sample Weight: 61.719 g

Weight of Water: 107.700g

Component Weight: 61.719g

Aeration Time: 0hr

Cycle No.: Z1500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2447224 | 2489973 | 2468599 | 0.9 | 286000 | 8.63 | 929 |

Total ETO (mg): 0.929 mg ETO
PPM: 15 ppm
Dimensions of Sample (cm) 2(9.188x1.140x1.126)
Surface Area ($cm^2$) 88.4cm2
µg ETO/$cm^2$ 10.5 ug ETO/cm2

Performed by: Elizabeth Jimenez Date: MAR-25-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set C 1X 0hr
Staples

CHEM-033D
REV A

COPY

Poly G1A
Stapler with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 0hr

**Lot Number:** 150090001OEER **Cycle Number:** 2A500136

**Sample Weight:** 0.0569g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 218862 | 218762 | 218812 ~~0.05~~ LJ MAR 25 2015 | 0.02 | 7820 | 28.0 |
| 2 | 6599 | 6602 | 6601 | 0.03 | 7820 | 0.844 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 28.8 ug **Residual (ppm):** 506ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.329mg ETO

**Sample Dimensions (cm)** 5( 0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 11.2 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-25-2015

**Reviewed by:** [illegible] **Date:** MAR-26-2015

Set C 1x0hr
Clamp

Premium Polysorb
Loading Unit with Polysorb Staples

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 013507L

Aeration Time: 0hr

Lot No.: 1502600007EER

Cycle No.: ZA500136

Sample Weight: 30.708g

Extraction Time: 2hr

Weight of Water: 105.654g

Extraction Temp.: 37C

Component Weight: 30.708g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2121861 | 2078290 | 2100076 | 1.0 | 286000 | 7.34 | 776 |

Total ETO (mg): 0.776mg ETO
PPM: 25 PPM
Dimensions of Sample (cm) 7.079X 3.720X0.777
Surface Area ($cm^2$) 69.4 $cm^2$
µg ETO/$cm^2$ 11.2ug ETO/$cm^2$

Performed by: [signature] Date: MAR-25-2015

Reviewed by: [signature] Date: MAR-26-2015

Setc 1x0hr
Staples.

CHEM-033D
REV A

COPY

Premium Polyscrb
Loading unit with Polyscrb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 0hr

**Lot Number:** 1502600007EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1094g **Extraction Time:** 20min

**Extraction Temp:** 130C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 326026 | 325074 | 325550 | 0.1 | 7820 | 41.6 |
| 2 | 17304 | 17460 | 17382 | 0.4 | 7820 | 2.22 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 43.8ug **Residual (ppm):** 400ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.168mg ETO

**Sample Dimensions (cm)** 5 (0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 12.0ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-25-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

Endo G1A

Set C 1X 0hr

Shaft /Cartridge.

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Aeration Time: 0hr

Lot No.: 143160000.5EER

Cycle No.: ZA500136

Sample Weight: 33.525

Extraction Time: 2hr

Weight of Water: 118.317g

Extraction Temp.: 37C

Component Weight: 33.525g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 555211 | 565546 | 560379 | 0.9 | 245000 | 2.29 | 271 |

Total ETO (mg): 0.271 mg ETO

PPM: 8 PPM

Dimensions of Sample (cm) OD= 1.168 L=11cm

Surface Area ($cm^2$) 42.5cm2

µg ETO/$cm^2$ 6.38µg ETO/cm2

Performed by: Lupeth Nunenez Date: MAR-17-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set C 1x 0hr
Buttress

EndoGIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT Aeration Time: 0hr

Lot Number: 143116 00005EER Cycle Number: 21500136

Sample Weight: 0.0723g Extraction Time: 20min

Extraction Temp: 15°C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 784977 | 783776 | 784377 | 0.1 | 7590 | 103 |
| 2 | 40014 | 40328 | 40171 | 0.4 | 7590 | 5.29 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 108 ug Residual (ppm): 1494 ppm

Total weight of component: 0.0723g Total mg ETO: 0.108 mg ETO

Sample Dimensions (cm) 2(6.620x1.074x0.009) Surface Area of Sample ($cm^2$) 28.8cm2

µg EtO/$cm^2$: 3.75 ug ETO/cm2

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C 1x 0hr
Staple.

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Aeration Time: 0hr

Lot Number: 1431160000 5EER

Cycle Number: Z1500136

Sample Weight: 0.1395g

Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | < 13397 | — | 7590 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 ug

Residual (ppm): <13ppm

Total weight of component: 0.1395g

Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 90staples', 0.0575

Surface Area of Sample ($cm^2$) 5.18cm2

µg EtO/$cm^2$: < 0.342 ug ETO/cm2

Performed by: Lizbette Nimeng

Date: MAR-17-2015

Reviewed by: Lori Cino

Date: Mar 18, 2015

Set C 1X 0hr
Shaft

COPY

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Lot No.: M32400005EER

Sample Weight: 1.9208g

Weight of Water: 9.8108g

Component Weight: 3.6838g

Aeration Time: 0hr

Cycle No.: ZA500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | <382746 | — | | 286000 | <1.34 | <13.1 |

Total ETO (mg): < 0.025mg ETO

PPM: < 7 PPM

Dimensions of Sample (cm) L= 3.048 OD=0.548 ID=0.418

Surface Area ($cm^2$) 9.45cm2

µg ETO/$cm^2$ < 1.39 ug ETO/cm2

Performed by: Lupe [illegible] Date: MAR-25-2015

Reviewed by: [illegible] Date: MAR-26-2015

Set C 1x 0hr

Tacks

CHEM-033D
REV A

ReliaTack
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** RELTACK3X10 **Aeration Time:** 0hr

**Lot Number:** 1432400005EER **Cycle Number:** EA500136

**Sample Weight:** 0.1274g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 793888 | 789514 | 791701 | 0.3 | 7820 | 101 |
| 2 | 52995 | 52657 | 52826 | 0.3 | 7820 | 6.76 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 108ug **Residual (ppm):** 848ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.217 mg ETO

**Sample Dimensions (cm)** 5 (0.596 cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 36.2 ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-25-2015

**Reviewed by:** [signature] **Date:** MAR-26-2015

# Aeration Validation

## Set "C"

## Absorbable Product

## 24 Hr. Secondary Aeration

V-Loc 90: 1436400007EER

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Polysorb: 1436400025EER

AbsorbaTack: 1429600003EER

Laproclip: 1429600006EER

Poly Roticulator: 150090005EER

Meniscal Stapler: 1426500012EER

Suture Anchor: 1502600004EER

Poly GIA: 1500900010EER

SPSP 55: 1502600007EER

Reinforced Reload: 1431600005EER

ReliaTack: 1432400005EER

Set C 1X 24hr

COPY

equal amt of suture for 2pkgs

V-LOC 90 size 2-0 L= 57cm

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: VLOC M0135 Aeration Time: 24hr

Lot Number: 1436400007EER Cycle Number: ZA500136

Sample Weight: 0.1824g Extraction Time: 20min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 610912 | 608405 | 609659 | 0.2 | 7590 | 80.3 |
| 2 | 36519 | 36401 | 36460 | 0.2 | 7590 | 4.80 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 85.1ug Residual (ppm): 467ppm

Total weight of component: 0.1497g Total mg ETO: 0.070mg ETO

Sample Dimensions (cm) 69.5cm², 8.492 Surface Area of Sample (cm²) 8.18cm²

µg EtO/cm²: 10.4ug ETO/cm²

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C 1X 24hr

CHEM-033D
REV A

COPY

V-LOC 180 Size 0 L=60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 24hr.

Lot Number: 1436400010EER Cycle Number: Z1500136

Sample Weight: 0.1656g Extraction Time: 30min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 821844 | 823975 | 822910 | 0.1 | 7590 | 108 |
| 2 | 108799 | 108668 | 108734 | 0.1 | 7590 | 14.3 |
| 3 | 7426 | 7455 | 7441 | 0.2 | 7590 | 0.980 |
| | | | | | | |

Total ETO Content: 123 µg Residual (ppm): 743ppm

Total weight of component: 0.2132g Total mg ETO: 0.158mg ETO

Sample Dimensions (cm) ~~60cm~~ 46.6, 7.075 LJJ MAR.17.2015 Surface Area of Sample ($cm^2$) ~~8.48cm²~~ 6.59 LJJ MAR.17-2015

µg EtO/$cm^2$: 18.7 ug EtO/cm²

Performed by: Elizabeth Nimeny Date: MAR-17-2015

Reviewed by: Jodi Cirino Date: Mar 18, 2015

Set C 1X 24hr

CHEM-033D
REV A

COPY

Equal amt of suture for 3 pkgs
V-LOC 180 Reload. Size 0 L= 20cm

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: VLOC A008L Aeration Time: 24hr

Lot Number: 1436400016EER Cycle Number: Z15000136

Sample Weight: 0.1923g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 829299 | 827686 | 828493 | 0.1 | 7590 | 109 |
| 2 | 93670 | 92526 | 93098 | 0.6 | 7590 | 12.3 |
| 3 | 7829 | 7695 | 7762 | 0.9 | 7590 | 1.02 |
| | | | | | | |

Total ETO Content: 122 µg Residual (ppm): 634ppm

Total weight of component: 0.0737g Total mg ETO: 0.047 mg ETO

Sample Dimensions (cm) 52.2cm; 7.075 Surface Area of Sample ($cm^2$) 7.38$cm^2$

µg EtO/$cm^2$: 16.5 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C IX 24hr

CHEM-033D
REV A

COPY

maxen Size 1 L=90cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 88866626971 Aeration Time: 24hr

Lot Number: 14364 00022EER Cycle Number: ZA500136

Sample Weight: 0.2010g Extraction Time: 30min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 930565 | 932610 | 931588 | 0.1 | 7590 | 123 |
| 2 | 99960 | 99751 | 99856 | 0.1 | 7590 | 13.2 |
| 3 | 8295 | 8241 | 8268 | 0.3 | 7590 | 1.09 |
| | | | | | | |

Total ETO Content: 137 µg Residual (ppm): 682ppm

Total weight of component: 0.3154g Total mg ETO: 0.215mg ETO

Sample Dimensions (cm) ~~90~~ 57.4 cm, 7.075 LJJ MAR-17-2015 Surface Area of Sample (cm²) ~~12.7~~ 8.11 cm² LJJ MAR-17-2015

µg EtO/cm²: 16.9 µg EtO/cm²

Performed by: Lizbeth Mimenez Date: MAR-17-2015

Reviewed by: Lodi Cruz Date: Mar 18, 2015

Set C 1X 24hr

CHEM-033D
REV A

Equal amt of suture for 2pkgs - Polysorb Size 2-0 L=78cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: L43 Aeration Time: 24 hrs

Lot Number: 1436400025EER Cycle Number: Z1500136

Sample Weight: 0.1806g Extraction Time: 20min

Extraction Temp: 150c.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 552128 | 556193 | 554161 | 0.4 | 7590 | 73.0 |
| 2 | 47050 | 47292 | 47171 | 0.3 | 7590 | 6.21 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 79.2 µg Residual (ppm): 439ppm

Total weight of component: 0.1115 g Total mg ETO: 0.049mg ETO

Sample Dimensions (cm) 126cm; 0.386 Surface Area of Sample ($cm^2$) 326cm²

µg EtO/$cm^2$: 0.243ug ETO/cm²

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C 1x 24hr

CHEM-033D
REV A

Tacks

COPY

AbsorbaTack Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTACK30 **Aeration Time:** 24hr

**Lot Number:** 1429600003EFR2 **Cycle Number:** ZA500136

**Sample Weight:** 0.1269g **Extraction Time:** 20 min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 726443 | 727229 | 726836 | 0.05 | 7580 | 95.9 |
| 2 | 45597 | 46265 | 45931 | 0.7 | 7580 | 6.06 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 102ug **Residual (ppm):** 804 ppm

**Total weight of component:** 0.7634g **Total mg ETO:** 0.614 mg ETO

**Sample Dimensions (cm)** 5 (0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 34.2ug ETO/cm2

Performed by: Lizbet Jimenez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set C 1X 24hr

Absorbatack Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

Shaft COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACK30

Aeration Time: 24hr

Lot No.: 1429600003EER

Cycle No.: ZA500136

Sample Weight: 1.4399g

Extraction Time: 2hr

Weight of Water: 6.9266g

Extraction Temp.: 37C

Component Weight: 10.5591g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | < 1.66 | < 11.5 |

Total ETO (mg): < 0.0843 mg ETO

PPM: < 8 PPM

Dimensions of Sample (cm) L = 2.777 OD=0.550 ID=0.364

Surface Area ($cm^2$) 8.24 $cm^2$

µg ETO/$cm^2$ < 1.40 ug ETO/$cm^2$

Performed by: Lizpeth Nimenez Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Setc 1x 24hr

CHEM-033D
REV A

COPY

LAPR- CLIP 12 MM
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 88868488 12 **Aeration Time:** 24hr

**Lot Number:** 1429600006EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1552g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 146644 | 146721 | 146683 | 0.03 | 7580 | 19.4 |
| 2 | 1872 | 1838 | 1855 | 0.9 | 7580 | 0.245 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 19.6ug **Residual (ppm):** 126ppm

**Total weight of component:** 0.1552g **Total mg ETO:** ~~0.020~~ 0.0196 mg ETO LJT MAR-26-2015

**Sample Dimensions (cm)** 1.86cm2 **Surface Area of Sample (cm$^2$)** 1.86cm2

**µg EtO/cm$^2$:** 10.5 ug ETO/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 24hr

Roticulator 55 Poly
Stapler with Polyscrb Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 013601

Aeration Time: 24hr

Lot No.: 150090000 5EER

Cycle No.: Z1500136

Sample Weight: 114.055g

Extraction Time: 2hr

Weight of Water: 103.407g

Extraction Temp.: 37c

Component Weight: 114.055g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1747996 | 1827270 | 1787633 | 2.2 | 247000 | 7.24 | 749 |

Total ETO (mg): 0.749mg ETO
PPM: 7 PPM
Dimensions of Sample (cm) 136cm²
Surface Area (cm²) 136cm²
µg ETO/cm² 5.51 µg ETO/cm²

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1x24hr

CHEM-033D
REV A

Staples

Reticulater 55 Poly
Stapler with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** 0136601 **Aeration Time:** 24hr

**Lot Number:** 150090005EER **Cycle Number:** Z1500136

**Sample Weight:** 0.0908g **Extraction Time:** 20 mins.

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 207535 | 206154 | 206845 | 0.3 | 7580 | 27.3 |
| 2 | 9197 | 9188 | 9193 | 0.04 | 7580 | 1.21 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 28.5 ug **Residual (ppm):** 314 ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.142mg ETO

**Sample Dimensions (cm)** 3 (0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 10.0 ug ETO/cm²

Performed by: Elizabeth Almonte Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set c 1X 24hr
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 24hr

Lot No.: 142605 00012 EER

Cycle No.: ZA500136

Sample Weight: 1.8876g

Extraction Time: 2hr

Weight of Water: 6.1605g

Extraction Temp.: 37C

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | <1.666 | <10.2 |

Total ETO (mg): < 0.0398 mg ETO
PPM: < 5PPM
Dimensions of Sample (cm) 2.774x 0.553x 0.237
Surface Area ($cm^2$) 4.65 cm2
µg ETO/$cm^2$ < 2.19 ug ETO/cm2

Performed by: Lizbeth Nunuez Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

Set C 1X 24hr
Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 24hr

**Lot Number:** 14265 00012EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0249g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 183135 | 182281 | 182708 | 0.2 | 7580 | 24.1 |
| 2 | 7969 | 7939 | 7954 | 0.2 | 7580 | 1.05 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 25.2ug **Residual (ppm):** 1012ppm

**Total weight of component:** 0.0249g **Total mg ETO:** 0.0252 mg ETO

**Sample Dimensions (cm)** 0.826cm² **Surface Area of Sample (cm²)** 0.826cm²

**µg EtO/cm²:** 30.5 ug EtO/cm²

Performed by: Lizbeth Nimeney Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1x 24hr

Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 273026

Aeration Time: 24hr

Lot No.: 15026 00004EER

Cycle No.: ZA500136

Sample Weight: 1.8438g

Extraction Time: 2hr

Weight of Water: 4.8322g

Extraction Temp.: 37C

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 3511112 | 3374432 | 3442772 | 2.0 | 247000 | 13.9 | 67.2 |

Total ETO (mg): 0.454 mg ETO

PPM: 36 PPM

Dimensions of Sample (cm) L=2.856 OD=0.489

Surface Area ($cm^2$) 4.76 cm2

µg ETO/$cm^2$ 14.1 ug ETO/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1x 24hr

Suture

CHEM-033D
REV A

Polysorb Soft Tissue Anchor
Ti-Cron size 2-0 L= 91cm

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 24hr

**Lot Number:** 15026 00004EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1957g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 677386 | 682373 | 679880 | 0.4 | 7580 | 89.7 |
| 2 | 189816 | 187261 | 188539 | 0.7 | 7580 | 24.9 |
| 3 | 22965 | 22979 | 22972 | 0.03 | 7580 | 3.03 |
| | | | | | | |

**Total ETO Content:** 118ug **Residual (ppm):** 603ppm

**Total weight of component:** 0.2728g **Total mg ETO:** 0.164mg ETO

**Sample Dimensions (cm)** 65.3cm, 0.693 **Surface Area of Sample (cm$^2$)** 94.2cm$^2$

**µg EtO/cm$^2$:** 1.25 ug ETO/cm$^2$

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

SetC 1X 24hr

Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 24hr

**Lot Number:** 1502600004EER **Cycle Number:** ZA500156

**Sample Weight:** 0.06060g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 342068 | 343299 | 342684 | 0.2 | 7580 | 45.2 |
| 2 | 21182 | 21180 | 21181 | 0.005 | 7580 | 2.79 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 48.0ug **Residual (ppm):** 792ppm

**Total weight of component:** 0.06060g **Total mg ETO:** 0.0480mg ETO

**Sample Dimensions (cm)** 1.975cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 24.3ug EtO/cm²

**Performed by:** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C 1x 24hr
Clamp
Shaft + Cartridge

Poly GIA
Stapler with Polysorb Staples

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Aeration Time: 24hr

Lot No.: 1500900010EER

Cycle No.: ZA500136

Sample Weight: 61.753g

Extraction Time: 2hr

Weight of Water: 107.780g

Extraction Temp.: 37C ~~150C~~ WJ MAR-26-2015

Component Weight: 61.753g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2929909 | 2884382 | 2907146 | 0.8 | 247000 | 11.8 | 1272 |

Total ETO (mg): 1.27 mg ETO
PPM: 21 PPM
Dimensions of Sample (cm) 2 (9.092x 1.052x 1.023)
Surface Area ($cm^2$) 79.8cm2
µg ETO/$cm^2$ 15.9 ug ETO/cm2

Performed by: Lizbeth [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C1X 24hr
Staples

CHEM-033D
REV A

Poly G1A
Stapler with Polysorb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

COPY

**Reorder Code:** 030775 **Aeration Time:** 24hr

**Lot Number:** 15009000 10EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0579g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 198974 | 197352 | 198163 | 0.4 | 7580 | 26.1 |
| 2 | 5790 | 5892 | 5841 | 0.9 | 7580 | 0.771 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** ~~26.8~~ 26.9 ug SO MAR-27-2015 **Residual (ppm):** ~~403~~ 465 ppm SO MAR-27-2015

**Total weight of component:** 0.6492g **Total mg ETO:** ~~0.300~~ 0.302 mg ETO SO MAR-27-2015

**Sample Dimensions (cm)** 5(0.513 cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** ~~10.4~~ 10.5 ug ETO/cm² SO MAR-27-2015

**Performed by:** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set-C 1X 24hr
Clamp

Premium Polysorb
Loading Unit with Polysorb Staples

CHEM-029B
REV A

**ETHYLENE OXIDE**

COPY

## Sample Analysis Data Sheet

Reorder Code: 0135072

Aeration Time: 24hr

Lot No.: 15026 0007EEP2

Cycle No.: Z1500136

Sample Weight: 30.732g

Extraction Time: 2hr

Weight of Water: 105.677g

Extraction Temp.: 37C

Component Weight: 30.732g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 1800588 | 1849965 | 1825276 | 1.4 | 247000 | 7.39 | 781 |

Total ETO (mg): 0.781 mg ETO
PPM: 25 PPM
Dimensions of Sample (cm) 7.061 x 3.775 x 0.775
Surface Area ($cm^2$) 70.1 $cm^2$
µg ETO/$cm^2$ 11.1 ug ETO/$cm^2$

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 24hr
Staples

COPY

CHEM-033D
REV A

Premium Polyscrb
Loading Unit with Polyscrb Staples
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 24hrs

**Lot Number:** 1502600007EER **Cycle Number:** Z1500136

**Sample Weight:** 0.1101g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 284292 | 280663 | 282178 | 0.7 | 7580 | 37.2 |
| 2 | 15238 | 15071 | 15155 | 0.5 | 7580 | 2.00 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 39.2ug **Residual (ppm):** 356 ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.149 mg ETO

**Sample Dimensions (cm)** 5 ( 0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 10.7 ug ETO/cm²

**Performed by:** Elizabeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C 1X 24hr

Shaft + Cartridge

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Aeration Time: 24hr

Lot No.: 143160000 5EER

Cycle No.: Z1500136

Sample Weight: 33.405 g

Extraction Time: 2hr

Weight of Water: 118.301g

Extraction Temp.: 37C

Component Weight: 33.405g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 214424 | 220173 | 217299 | 1.3 | 245000 | 0.887 | 105 |

Total ETO (mg): 0.105 mg ETO

PPM: 3 PPM

Dimensions of Sample (cm) L=11cm OD= 1.177

Surface Area ($cm^2$) 42.9cm2

µg ETO/$cm^2$ 2.45 µg ETO/cm2

Performed by: Lizbeth Nimenez Date: MAR-17-2015

Reviewed by: Jade Cinco Date: Mar 27, 2015

Set C. 1X 24hr

Buttress

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EG1A TRS60 AMT Aeration Time: 24 hr

Lot Number: 1431160000 5EER Cycle Number: ZA500136

Sample Weight: 0.0748g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 311777 | 312332 | 312055 | 0.1 | 7590 | 41.1 |
| 2 | 15104 | 15925 | 15515 | 2.6 | 7590 | 2.04 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 43.1 ug Residual (ppm): 576ppm

Total weight of component: 0.0748g Total mg ETO: 0.043mgETO

Sample Dimensions (cm) 2(7.062x1.025x6.008) Surface Area of Sample ($cm^2$) (14.62)= 29.2cm2

µg EtO/$cm^2$: 1.48 ug ETO/cm2

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Jodi Cruo Date: Mar 18, 2015

Set C 1x 24hr
Staples.

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: 24hrs.

Lot Number: 1431 600005EER Cycle Number: ZA500136

Sample Weight: 0.1424g Extraction Time: 10min

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | <1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: <1.77 ug Residual (ppm): <12ppm

Total weight of component: 0.1424g Total mg ETO: < 0.002mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18cm²

µg EtO/$cm^2$: < 0.342 ug ETO/cm²

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Jose Cruz Date: Mar 18, 2015

Set C 1x 24hr

Articulating ReliaTack Reloadable Fixation Device

CHEM-029B
REV A

COPY Shaft

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Aeration Time: 24hr

Lot No.: 1432400005EER

Cycle No.: ZA500136

Sample Weight: 1.1901g

Extraction Time: 2hr

Weight of Water: 8.9637g

Extraction Temp.: 37C

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | < 1.66 | < 14.9 |

Total ETO (mg): < 0.0461 mg ETO

PPM: < 13PPM

Dimensions of Sample (cm) 2.267 OD= 0.558 ID=0.420

Surface Area ($cm^2$) 7.19 $cm^2$

µg ETO/$cm^2$ < 2.07ug ETO/$cm^2$

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 24hr

CHEM-033D
REV A

COPY

Tacks

ReliaTacks
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** RELTACK3X10 **Aeration Time:** 24hr

**Lot Number:** 14324000005EER **Cycle Number:** EA500136

**Sample Weight:** 0.1279g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 709755 | 707557 | 708656 | 0.2 | 7580 | 93.5 |
| 2 | 40375 | 39959 | 40167 | 0.5 | 7580 | 5.30 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 98.8ug **Residual (ppm):** 772ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.197 mg ETO

**Sample Dimensions (cm)** 5(0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 33.2ug EtO/cm²

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

# Aeration Validation

## Set "C"

## Absorbable Product

## 48 Hr. Secondary Aeration

V-Loc 90: 1436400007EER

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Polysorb: 1436400025EER

AbsorbaTack: 1429600003EER

Laproclip: 1429600006EER

Poly Roticulator: 150090005EER

Meniscal Stapler: 1426500012EER

Suture Anchor: 1502600004EER

Poly GIA: 1500900010EER

SPSP 55: 1502600007EER

Reinforced Reload: 1431600005EER

ReliaTack: 1432400005EER

Set C 1x 48hr

COPY

Equal amt of suture for 2pkgs
V-LOC 90 Size 2-0 L=57cm

CHEM-033D
REV A

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC M0135 Aeration Time: 48hr

Lot Number: 1436400007EER Cycle Number: ZA500136

Sample Weight: 0.1805g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 197288 | 194004 | 195646 | 0.8 | 7590 | 25.8 |
| 2 | 24582 | 24110 | 24346 | 1.0 | 7590 | 3.21 |
| 3 | 5251 | 5235 | 5243 | 0.2 | 7590 | 0.691 |
| | | | | | | |

Total ETO Content: LTJ ~~29.0~~ 29.7 µg MAR-17-2015 Residual (ppm): ~~Ha~~ 165 ppm LJT MAR-17-2015

Total weight of component: 0.1499g Total mg ETO: 0.025 mg ETO

Sample Dimensions (cm) 68.6cm; 8.492 Surface Area of Sample ($cm^2$) 8.08cm 2

µg EtO/$cm^2$: 3.68 µg EtO/cm2

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Jose Cirio Date: Mar 18, 2015

Set C 1X 48hr

CHEM-033D
REV A

V-LOC 180 Size a L = 60cm

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOC L0536 Aeration Time: 48hr

Lot Number: 14364 00010EER Cycle Number: Z1500136

Sample Weight: 0.1761g Extraction Time: 30min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 621441 | 622907 | 622174 | 0.1 | 7590 | 82.0 |
| 2 | 111434 | 110521 | 110978 | 0.4 | 7590 | 14.6 |
| 3 | 10304 | 10290 | 10297 | 0.1 | 7590 | 1.36 |
| | | | | | | |

Total ETO Content: 98.0ug Residual (ppm): 557ppm

Total weight of component: 0.2140g Total mg ETO: 0.119 mg ETO

Sample Dimensions (cm) 49.4cm, 7.075 Surface Area of Sample ($cm^2$) 6.98 $cm^2$

µg EtO/$cm^2$: 14.0 ug ETO/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-17-2015

Reviewed by: Jodi Cano Date: Mar 18, 2015

Set C. 1X 48hr

Equal amt of suture for 3 pkgs.

V-LOC 180 Reload Size 0 L= 20cm

CHEM-033D
REV A

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

Reorder Code: VLOCA008L Aeration Time: 48hr

Lot Number: 1436400016EEK Cycle Number: Z15C0136

Sample Weight: 0.1876g Extraction Time: 20min.

Extraction Temp: 150C.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 634725 | 632590 | 633658 | 0.2 | 7590 | 83.5 |
| 2 | 49717 | 48873 | 49295 | 0.9 | 7590 | 6.49 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 90.0ug Residual (ppm): 480ppm

Total weight of component: 0.0732g Total mg ETO: 0.035mg ETO

Sample Dimensions (cm) 51.3cm; 7.075 Surface Area of Sample ($cm^2$) 7.25cm 2

µg EtO/$cm^2$: 12.4 ug ETO/cm2

Performed by: Lizbeth Ramirez Date: MAR-17-2015

Reviewed by: Jade Cruz Date: Mar 18, 2015

Set C 1x 48hr

CHEM-033D
REV A

COPY

maxon size 1 L=90cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: 48hr

Lot Number: 1436400022EER Cycle Number: Z1500136

Sample Weight: 0.2014g Extraction Time: 20min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 689039 | 695725 | 692382 | 0.5 | 7590 | 91.2 |
| 2 | 62038 | 61271 | 61655 | 0.6 | 7590 | 8.12 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 99.3ug Residual (ppm): 493ppm

Total weight of component: 0.3184g Total mg ETO: 0.157mg ETO

Sample Dimensions (cm) 5.69cm², 7.075 Surface Area of Sample (cm²) 8.04cm²

µg EtO/cm²: 12.4ug EtO/cm²

Performed by: Lizbeth Romero Date: MAR-17-2015

Reviewed by: Joan Cruz Date: Mar 18, 2015

Set C 1X 48hr

COPY

Equal amt of suture for 2pkgs

Polysorb 2-0 L= 78cm

CHEM-033D
REV A

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** L43 **Aeration Time:** 48hr

**Lot Number:** 1436400025EER **Cycle Number:** EA500136

**Sample Weight:** 0.1705g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 328324 | 329442 | 328883 | 0.2 | 7590 | 43.3 |
| 2 | 30273 | 30842 | 30558 | 0.9 | 7590 | 4.03 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 47.3ug **Residual (ppm):** 277ppm

**Total weight of component:** 0.1116g **Total mg ETO:** 0.031mg ETO

**Sample Dimensions (cm)** 119cm², 0.386 **Surface Area of Sample (cm²)** 308cm²

**µg EtO/cm²:** 0.154 ug ETO/cm²

**Performed by:** Lysbeth Jimenez **Date:** MAR-17-2015

**Reviewed by:** Lou Cruz **Date:** Mar 18, 2015

Set C 1X 48hr

Tacks

CHEM-033D
REV A

AbsorbaTack Fixation Device

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** ABSTACK30 **Aeration Time:** 48hr

**Lot Number:** 1429600003EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1278g **Extraction Time:** 20 min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 598457 | 593449 | 595953 | 0.4 | 7580 | 78.6 |
| 2 | 30595 | 30480 | 30538 | 0.2 | 7580 | 4.03 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 82.6ug **Residual (ppm):** 646ppm

**Total weight of component:** 0.7634g **Total mg ETO:** 0.493 mg ETO

**Sample Dimensions (cm)** 5(0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 27.7ug ETO/cm²

**Performed by:** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C 1X 48hr
Shaft

Absorbatack Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: ABSTACH30

Aeration Time: 48hr

Lot No.: 1429600003EER

Cycle No.: ZA500136

Sample Weight: 1.7050g

Extraction Time: 2hr

Weight of Water: 7.1417g

Extraction Temp.: 37C

Component Weight: 10.5591g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 408996 | — | 247000 | < 1.66 | < 11.9 |

Total ETO (mg): < 0.0737 mg ETO
PPM: < 7 PPM
Dimensions of Sample (cm) L=3.192 OD=0.546 ID=0.408
Surface Area ($cm^2$) 9.71cm2
µg ETO/$cm^2$ < 1.22 µg ETO/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 48hr

COPY

CHEM-033D
REV A

LAPR-CLIP 12MM

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 8886848812 **Aeration Time:** 48hr

**Lot Number:** 1429L00006EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1560g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 122464 | 122937 | 122701 | 0.2 | 7580 | 16.2 |
| 2 | 1643 | 1607 | 1625 | 1.1 | 7580 | 0.214 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 16.4 ug **Residual (ppm):** 105ppm

**Total weight of component:** 0.1560g **Total mg ETO:** 0.0164mg ETO

**Sample Dimensions (cm)** 1.86cm **Surface Area of Sample ($cm^2$)** 1.86cm2

**µg EtO/$cm^2$:** 8.82 ug ETO/cm2

**Performed by:** Lupeti Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C 1x 48hr
Clamp

COPY

Roticulater 55 Poly
Stapler with Polyscrlo Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 0131601

Aeration Time: 48hr

Lot No.: 15009 00005EER

Cycle No.: Z15000136

Sample Weight: 115.298g

Extraction Time: 2hr

Weight of Water: 99.515g

Extraction Temp.: 37C

Component Weight: 115.298g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 46281 | 47365 | 46823 | 1.2 | 7370 | 6.35 | 632 |

Total ETO (mg): 0.632 mg ETO
PPM: 5 PPM
Dimensions of Sample (cm) 136cm²
Surface Area (cm²) 136cm²
µg ETO/cm² 4.65 µg ETO/cm²

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 48hr
Staples

CHEM-033D
REV A

Roticulator 55 Poly
Stapler with Polyscrb Staples

COPY

# Ethylene Oxide Sample Analysis Data Sheet

**Reorder Code:** 013601 **Aeration Time:** 48hrs

**Lot Number:** 15009000005EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0902g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 238972 | 236535 | 237754 | 0.5 | 7580 | 31.4 |
| 2 | 10212 | 10076 | 10144 | 0.7 | 7580 | 1.34 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 32.7 ug **Residual (ppm):** 363ppm

**Total weight of component:** 0.4517g **Total mg ETO:** 0.164mg ETO

**Sample Dimensions (cm)** 3( 0.946cm²) **Surface Area of Sample (cm²)** 2.84cm²

**µg EtO/cm²:** 11.5 ug ETO/cm²

**Performed by:** Lizbeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set C 1x 48hr
Shaft

Polysorb Meniscal Stapler

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: 160510

Aeration Time: 48hr

Lot No.: 14265 00012EER

Cycle No.: ZA500136

Sample Weight: 2.0101g

Extraction Time: 2hr

Weight of Water: 9.4579g

Extraction Temp.: 37c

Component Weight: 7.3720g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | <408996 | — | 247000 | <1.66 | < 15.7 |

Total ETO (mg): < 0.0576mg ETO
PPM: < 8 PPM
Dimensions of Sample (cm) 3.413x 0.547x 0.229
Surface Area ($cm^2$) 5.55cm2
µg ETO/$cm^2$ < 2.83ug ETO/cm2

Performed by: Lizbeth Nimeney Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 48hr
Staple

CHEM-033D
REV A

COPY

Polysorb Meniscal Stapler
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 160510 **Aeration Time:** 48hr

**Lot Number:** 14265000 12EER **Cycle Number:** ZA500136

**Sample Weight:** 0.0247g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 227261 | 225865 | 226563 | 0.3 | 7580 | 29.9 |
| 2 | 9125 | 9231 | 9178 | 0.6 | 7580 | 1.21 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 31.1ug **Residual (ppm):** 1259ppm

**Total weight of component:** 0.0247g **Total mg ETO:** 0.0311 mg ETO

**Sample Dimensions (cm)** 0.826cm² **Surface Area of Sample (cm²)** 0.826cm²

**µg EtO/cm²:** 37.7 ug EtO/cm²

**Performed by:** Elizabeth Nimenez **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C 1x 48hr
Shaft

Polysorb Soft Tissue Anchor

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 273026

Aeration Time: 48hr

Lot No.: 150260000 4EPR

Cycle No.: Z1500136

Sample Weight: 2.3000g

Extraction Time: 2hr

Weight of Water: 6.1245g

Extraction Temp.: 37c

Component Weight: 12.4645g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 2567174 | 2677730 | 2622452 | 2.1 | 247000 | 10.6 | 64.9 |

Total ETO (mg): 0.352 mg ETO
PPM: 28 PPM
Dimensions of Sample (cm) L = 3.337 OD = 0.464
Surface Area ($cm^2$) 5.20 $cm^2$
µg ETO/$cm^2$ 12.5 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 48hr

Suture

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
Ti-Cron Size 2-0 L=9cm

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 48hr

**Lot Number:** 1502600004EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1710g **Extraction Time:** 30min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 458247 | 460838 | 459543 | 0.3 | 7580 | 60.6 |
| 2 | 133107 | 133480 | 133294 | 0.1 | 7580 | 17.6 |
| 3 | 15780 | 15715 | 15748 | 0.2 | 7580 | 2.08 |
| | | | | | | |

**Total ETO Content:** ~~80.2~~ 80.3 ug so mar-27-2015 **Residual (ppm):** ~~469~~ 470 ppm so mar-27-2015

**Total weight of component:** 0.2745g **Total mg ETO:** 0.129 mg ETO

**Sample Dimensions (cm)** 56.7cm ; 0.693 **Surface Area of Sample (cm²)** 81.8cm 2

**µg EtO/cm²:** ~~0.980~~ 0.982 ug ETO/cm2 so mar-27-2015

**Performed by:** Elizabeth Jimenez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** mar-27-2015

Set C 1X 48hr
Anchor

CHEM-033D
REV A

COPY

Polysorb Soft Tissue Anchor
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 273026 **Aeration Time:** 48hr

**Lot Number:** 1502600004EER **Cycle Number:** Z1500136

**Sample Weight:** 0.0606g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 370010 | 376099 | 373055 | 0.8 | 7580 | 49.2 |
| 2 | 21663 | 21792 | 21728 | 0.3 | 7580 | 2.87 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 52.1ug **Residual (ppm):** 860ppm

**Total weight of component:** 0.0606g **Total mg ETO:** 0.0521mg ETO

**Sample Dimensions (cm)** 1.975 cm² **Surface Area of Sample (cm²)** 1.975cm²

**µg EtO/cm²:** 26.4ug EtO/cm²

**Performed by:** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C 1x 48hr
Shaft 1 cartridge

Poly G1A
Stapler with Polysorb Staples

CHEM-029B
REV A

COPY

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 030775

Lot No.: 15009000 10EER

Sample Weight: 62.623g

Weight of Water: 102.913g

Component Weight: 62.623g

Aeration Time: 48hr

Cycle No.: ZA500136

Extraction Time: 2hr

Extraction Temp.: 37C

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 62499 | 62459 | 62479 | 0.03 | 7370 | 8.48 | 873 |

Total ETO (mg): 0.873mg ETO
PPM: 14 PPM
Dimensions of Sample (cm) 2( 9.103x 1.151 x 0.615)
Surface Area ($cm^2$) 67.2cm2
µg ETO/$cm^2$ 13.0 ug ETO/cm2

Performed by: Elizabeth Nunnery Date: MAR-26-2015

Reviewed by: [illegible] Date: MAR-27-2015

SetC 1x 48hr

Staples

CHEM-033D
REV A

Poly GIA
Stapler with Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 030775 **Aeration Time:** 48hr

**Lot Number:** 150090001OEER **Cycle Number:** Z1500136

**Sample Weight:** 0.0581g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 179970 | 179753 | 179862 | 0.06 | 7580 | 23.7 |
| 2 | 4690 | 4656 | 4673 | 0.4 | 7580 | 0.616 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 24.3ug **Residual (ppm):** 418ppm

**Total weight of component:** 0.6492g **Total mg ETO:** 0.272 mgETO

**Sample Dimensions (cm)** 5 (0.513cm²) **Surface Area of Sample (cm²)** 2.57cm²

**µg EtO/cm²:** 9.46ug ETO/cm²

**Performed by:** Lizbeth Menez **Date:** MAR-26-2015

**Reviewed by:** [illegible] **Date:** MAR-27-2015

Set c 1x48hr
Clamp

COPY

Premium Polyscrub
Loading Unit with Polyscrub Staples

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: 013507L

Aeration Time: 48hr

Lot No.: 15026008007EPR

Cycle No.: Z1500136

Sample Weight: 30.770g

Extraction Time: 2hr

Weight of Water: 100.678g

Extraction Temp.: 37c

Component Weight: 30.770g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 40455 | 39255 | 39855 | 1.5 | 7370 | 5.41 | 545 |

Total ETO (mg): 0.545 mg ETO
PPM: 18 PPM
Dimensions of Sample (cm) 7.180 X 3.715 X 0.783
Surface Area ($cm^2$) 70.4 $cm^2$
µg ETO/$cm^2$ 7.74 µg ETO/$cm^2$

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1x48hr
Staples

CHEM-033D
REV A

Premium Polysorb
Loading Unit with Polysorb Staples

COPY

**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** 013507L **Aeration Time:** 48hr

**Lot Number:** 1502600007EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1095g **Extraction Time:** 20min

**Extraction Temp:** 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 233311 | 235435 | 234373 | 0.5 | 7580 | 30.9 |
| 2 | 12424 | 12477 | 12451 | 0.2 | 7580 | 1.64 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 32.5ug **Residual (ppm):** 297ppm

**Total weight of component:** 0.4185g **Total mg ETO:** 0.124 mg ETO

**Sample Dimensions (cm)** 5 (0.732cm²) **Surface Area of Sample (cm²)** 3.66cm²

**µg EtO/cm²:** 8.88ug EtO/cm²

**Performed by:** Lizbeth Mineney **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** MAR-27-2015

Set C 1X 48hr

Shaft /cartridge

COPY

Endo G1A

CHEM-029B
REV A

# ETHYLENE OXIDE

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT

Lot No.: 1431600005FER

Sample Weight: 33.467 g

Weight of Water: 126.252g

Component Weight: 33.467g

Aeration Time: 48hr

Cycle No.: EA500136

Extraction Time: 2hr

Extraction Temp.: 37c

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| 108459 | 101121 | 104790 | 3.5 | 245000 | 0.428 | 54.0 |

Total ETO (mg): 0.054 mg ETO

PPM: 2 PPM

Dimensions of Sample (cm) L = 11cm OD = 1.153

Surface Area ($cm^2$) 41.9cm2

µg ETO/$cm^2$ 1.29 µg ETO/cm2

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 27, 2015

Set C 1x 48hr
Buttress

EndoGIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATR3560AMT

Aeration Time: 48hr

Lot Number: 143160000 5EER

Cycle Number: ZA500136

Sample Weight: 0.0761g

Extraction Time: 20min

Extraction Temp: 15x.

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 182512 | 183793 | 183153 | 0.3 | 7590 | 24.1 |
| 2 | 9414 | 9455 | 9435 | 0.2 | 7590 | 1.24 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 25.3 ug

Residual (ppm): 332 ppm

Total weight of component: 0.0761g

Total mg ETO: 0.025mg ETO

Sample Dimensions (cm) 2(7.048x1.006x0.008) Surface Area of Sample ($cm^2$) 28.6cm 2

µg EtO/$cm^2$: 0.885 ug ETO/cm2

Performed by: [signature] Date: MAR-17-2015

Reviewed by: [signature] Date: Mar 18, 2015

Set C 1X 48hr
Staples

Endo GIA

CHEM-033D
REV A

COPY

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: EGIATRS60AMT Aeration Time: 48hr

Lot Number: 1431160000 5EER Cycle Number: 21500136

Sample Weight: 0.1431g Extraction Time: 10min

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no response | | < 13397 | — | 7590 | < 1.77 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO Content: < 1.77 ug Residual (ppm): < 12ppm

Total weight of component: 0.1431g Total mg ETO: < 0.002 mg ETO

Sample Dimensions (cm) 90 staples; 0.0575 Surface Area of Sample ($cm^2$) 5.18cm 2

µg EtO/$cm^2$: < 0.342 ug ETO/cm 2

Performed by: Lizbeth Nunez Date: MAR-17-2015

Reviewed by: Jodi Cino Date: Mar 18, 2015

Set C 1X 48hr
Shaft

ReliaTack
Articulating Reloadable Fixation Device

CHEM-029B
REV A

# ETHYLENE OXIDE

COPY

## Sample Analysis Data Sheet

Reorder Code: RELTACK3X10

Aeration Time: 48hr

Lot No.: 1432400005EER

Cycle No.: EA500136

Sample Weight: 1.5190g

Extraction Time: 2hr

Weight of Water: 9.1895g

Extraction Temp.: 37c

Component Weight: 3.6838g

| Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content µg/ml | Total ETO (µg) |
|---|---|---|---|---|---|---|
| no response | | < 406996 | — | 247000 | < 1.66 | < 15.3 |

Total ETO (mg): < 0.0371 mg ETO
PPM: < 10 PPM
Dimensions of Sample (cm) L = 2.750 OD = 0.549 ID = 0.418
Surface Area ($cm^2$) 8.55 $cm^2$
µg ETO/$cm^2$ < 1.79 ug ETO/cm2

Performed by: [signature] Date: MAR-26-2015

Reviewed by: [signature] Date: MAR-27-2015

Set C 1X 48hr
Staples
Tacks

COPY

CHEM-033D
REV A

ReliaTack
Articulating Reloadable Fixation Device
**Ethylene Oxide Sample Analysis Data Sheet**

**Reorder Code:** RELTACK3X10 **Aeration Time:** 48hr

**Lot Number:** 1432400005EER **Cycle Number:** ZA500136

**Sample Weight:** 0.1274g **Extraction Time:** 20min

**Extraction Temp:** 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 603001 | 603065 | 603033 | 0.005 | 7580 | 79.6 |
| 2 | 30280 | 30256 | 30268 | 0.04 | 7580 | 3.99 |
| | | | | | | |
| | | | | | | |

**Total ETO Content:** 83.6ug **Residual (ppm):** 656ppm

**Total weight of component:** 0.2555g **Total mg ETO:** 0.168mg ETO

**Sample Dimensions (cm)** 5(0.596cm²) **Surface Area of Sample (cm²)** 2.98cm²

**µg EtO/cm²:** 28.1ug ETO/cm²

**Performed by** [signature] **Date:** MAR-26-2015

**Reviewed by:** [signature] **Date:** Mar-27-2015

# Aeration Validation

## Set "C"

## Absorbable Product

## 72 Hr. Secondary Aeration

V-Loc 90: 1436400007EER

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Polysorb: 1436400025EER

AbsorbaTack: 1429600003EER

Laproclip: 1429600006EER

Poly Roticulator: 150090005EER

Meniscal Stapler: 1426500012EER

Suture Anchor: 1502600004EER

Poly GIA: 1500900010EER

SPSP 55: 1502600007EER

Reinforced Reload: 1431600005EER

ReliaTack: 1432400005EER

Set 1x C 72hr

COPY

CHEM-033C
REV A

V-LOC 90 Size 2-0 L=56cm

Sample Analysis Data Sheet

Reorder Code: VLOCM0135
Lot Number: 14364 00007 EER
Cycle Number: ZA 500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1471 g
Water Weight 3.4615 g
Component Wt. 0.1471 g
Sample Dimensions (cm) 56cm; 8.4917

Dilution Factor 23.53
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 6.59 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <341 | <0.050 |

## Ethylene Oxide

Sample Weight 0.1469 g
Component Wt. 0.1469 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 819.948 | 819.534 | 819.741 | 0.03 | 30.7 | 26.7 |
| 2 | 32.792 | 33.529 | LJJ MAR-18-2015 ~~31.661~~ | ~~2.6~~ LJJ MAR-18-2015 | 30.7 | 1.08 |
| | | | 33.161 | 1.1 | | |
| | | | | | | |

Total ETO content (µg) 27.8
Total mg ETO 0.028 mg
Dimensions of Sample (cm) 56cm; 8.4917

µg EtO/cm² 4.22 ug/cm²

Residual (ppm) 189 ppm

Surface Area (cm²) 6.59 cm²

mg EtCh/cm² MAR-18-2015 LJJ ~~<0.0076~~ mg/cm² <0.008

Performed by: [signature]

Date: Mar 18, 2015

Reviewed by: [signature]

Date: MAR-18-2015

Set C 1X 72hr

COPY

CHEM-033C
REV A

V-LOC 180 Size 0 L=60cm

- Sample Analysis Data Sheet

Reorder Code: VLOC L0536
Lot Number: 1436400010EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2083 g
Water Weight 4.3266 g
Component Wt. 0.2083 g
Sample Dimensions (cm) 60cm; 7.075

Dilution Factor 20.77
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 8.48 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | <301 | <0.063 |

## Ethylene Oxide

Sample Weight 0.1840 g
Component Wt. 0.2125 g

Extraction Time 20min.
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2620.056 | 2543.660 | 2581.858 | 1.5 | 30.7 | 84.1 |
| 2 | 200.660 | 201.958 | 201.309 | 0.3 | 30.7 | 6.56 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 90.7 µg
Total mg ETO 0.105mg
Dimensions of Sample (cm) ~~60cm~~; 52cm 7.075
VC 3-18-2015
µg EtO/cm² 12.3 µg/cm²

Residual (ppm) 493 ppm
Surface Area (cm²) 7.35 cm²
mg EtCh/cm² <0.0074 mg/cm²
LJJ MAR-18-2015

Performed by: [signature]
Date: Mar 18, 2015

Reviewed by: [signature]
Date: MAR-18-2015

Set C 1X72hr

Equal amt of suture for 2pkgs

CHEM-033C
REV A

V-LOC 180 Reload Size 0 L=20cm

- Sample Analysis Data Sheet

Reorder Code: VLOC A008L
Lot Number: 1436400016EER
Cycle Number: Z4500136

Aeration Time: 72 hrs
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.1472 g
Water Weight 3.1426 g
Component Wt. 0.0736 ~~0.1472~~ LJT 11-12-16-2015 g
Sample Dimensions (cm) 40 cm

Dilution Factor 21.35
Extraction Time 24hr
Extraction Temp. room temp.
Surface Area 5.65 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <310 | ~~<0.0023~~ <0.023 mg VC 3-18-15 |

## Ethylene Oxide

Sample Weight 0.1455 g
Component Wt. 0.0736 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2256.759 | 2149.956 | 2203.358 | 2.4 | 30.7 | 71.8 |
| 2 | 100.282 | 99.867 | 100.075 | 0.2 | 30.7 | 3.26 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 75.1
Total mg ETO 0.038 mg
Dimensions of Sample (cm) 40 cm, 7.095

µg EtO/cm² 13.3 µg/cm²

Residual (ppm) 516 ppm
Surface Area (cm²) 5.65 cm²
mg EtCh/cm² <0.0081 mg/cm² LJT MAR-18-2015

Performed by: Joan Cinco
Date: Mar 18, 2015

Reviewed by: Lizbeth Nimenez
Date: MAR-18-2015

Set C 1X 72hr

COPY

CHEM-033C
REV A

Maxon Size 1 L= 91cm

Sample Analysis Data Sheet

Reorder Code: 8886626971
Lot Number: 1436400022EER
Cycle Number: ZA500136

Aeration Time: 72 hr
Aeration Conditions: ~105°F

**Ethylene Chlorohydrin**

Sample Weight 0.3147 g
Water Weight 4.6361 g
Component Wt. 0.3147 g
Sample Dimensions (cm) 91cm; 7.075

Dilution Factor 14.73
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 12.9 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <214 | <0.067 |

**Ethylene Oxide**

Sample Weight 0.1724 g
Component Wt. 0.3144 g

Extraction Time 20 min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 2309.855 | 2296.199 | 2303.027 | 0.3 | 30.7 | 75.0 |
| 2 | 134.47 | 141.83 | 138.15 | 2.7 | 30.7 | 4.50 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 79.5 µg
Total mg ETO 0.145mg
Dimensions of Sample (cm) ~~91cm~~; 50cm, 7.075
JC3-18-15

Residual (ppm) 461 ppm
Surface Area (cm²) 7.07cm²

µg EtO/cm² 11.2 µg/cm²

mg EtCh/cm² <0.0052 mg/cm²
LJT MAR-18-2015

Performed by: [signature]

Date: Mar 18, 2015

Reviewed by: [signature]

Date: MAR-18-2015

Set C 1x 72hr

COPY

Equal amt of suture for 2pkgs.

Polysorb Size 2-0 L = 78cm

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: L43
Lot Number: 14364 00025 EER
Cycle Number: 21500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

## Ethylene Chlorohydrin

Sample Weight 0.2198 g
Water Weight 3.7165 g
Component Wt. 0.1086 g
Sample Dimensions (cm) 158 cm

Dilution Factor 16.91
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 409 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

LJT MAR-18-2015 **Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | <245 | <0.027 |

<77.1954

## Ethylene Oxide

Sample Weight 0.1739 g
Component Wt. 0.1104 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 1174.442 | 1179.715 | 1177.079 | 0.2 | 30.7 | 38.3 |
| 2 | 101.038 | 109.211 | 105.125 | 3.9 | 30.7 | 3.42 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 41.7
Total mg ETO 0.026 mg
Dimensions of Sample (cm) 123 cm 0.386

Residual (ppm) 240 ppm
Surface Area (cm²) 319 cm²

µg EtO/cm² 0.131 µg/cm²

mg EtCh/cm² <0.0001 mg/cm²

Performed by: Lou Cimo

Date: Mar 18, 2015

Reviewed by: Lizbeth Jimenez

Date: MAR-18-2015

Set C 1X 72hrs
TACKS

COPY

CHEM-033C
REV A

Absorbatack Fixation Device

Sample Analysis Data Sheet

Reorder Code: ABSTACK30
Lot Number: 1429600003 EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1279 g
Water Weight 1.5510 g
Component Wt. 0.7634 g
Sample Dimensions (cm) 5 (0.596cm²)

Dilution Factor 12.1267
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.98cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 176 | < 0.134 |

**Ethylene Oxide**

Sample Weight 0.1274 g
Component Wt. 0.7634 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 602604 | 602952 | 602778 | 0.03 | 7560 | 79.7 |
| 2 | 22189 | 22101 | 22145 | 0.2 | 7560 | 2.93 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 82.6ug
Total mg ETO 0.495 mg ETO
Dimensions of Sample (cm) 5 (0.596 cm²)

Residual (ppm) 648ppm
Surface Area (cm²) 2.98cm2

µg EtO/cm² 27.7ug EtO/cm2

mg EtCh/cm² < 0.00755 mg EtCh/cm2

Performed by: Lizbeth Jimenez
Date: MAR-30-2015

Reviewed by: [signature]
Date: MAR-31-2015

Set C 1X 72hr
Shaft

COPY

CHEM-029C
REV A

AbsorbaTack Fixation Device
**Sample Analysis Data Sheet**

Reorder Code: ABSTACH30 Aeration Time: 72hr

Lot Number: 1429600003EER Aeration Conditions: ≈105°F

Cycle Number: Z1500136 Extraction Time: 2hr

Component Weight: 10.5591 g Extraction Temp. 37c

Sample Weight: 2.2635g Water Weight: 8.6567g

**Ethylene Chlorohydrin**

Dilution Factor: 3.8245

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | <14.5 | < 55 | <0.586 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | < 368314 | — | 269000 | <1.37 | <11.9 | < 5 |

Total mg ETO: < 0.0555 mg ETO

Dimensions of Sample L= 4.207 OD=0.548 ID=0.417 Surface Area ($cm^2$) 13.0 $cm^2$

µg ETO/ $cm^2$ < 0.915 ug ETO/cm2 mg EtCh/ $cm^2$ <0.00966 mg EtCh/cm2

Performed by: Lizbeth Jimenez Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1X 72hr

CHEM-033C
REV A

COPY

LAPR - CLIP 12mm
Sample Analysis Data Sheet

Reorder Code: 8886848812
Lot Number: 1429600006EER
Cycle Number: 21500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1553 g
Water Weight 1.6279 g
Component Wt. 0.1553 g
Sample Dimensions (cm) 1.86cm²

Dilution Factor 10.4823
Extraction Time 24hr
Extraction Temp. roomtemp
Surface Area 1.86cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 152 | < 0.0236 |

**Ethylene Oxide**

Sample Weight 0.1546 g
Component Wt. 0.1546 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 55056 | 55128 | 55092 | 0.1 | 7560 | 7.29 |
| 2 | no response | | — | — | — | — |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 7.29ug
Total mg ETO 0.00729 mg ETO
Dimensions of Sample (cm) 1.86cm²

Residual (ppm) 47ppm
Surface Area (cm²) 1.86cm²

µg EtO/cm² 3.92 ug EtO/cm²

mg EtCh/cm² < 0.0127 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-30-2015

Reviewed by: [illegible]
Date: MAR-31-2015

Set C 1X 72hr
Clamp

COPY

Roticulator 55 Poly
Stapler with Polyscrb Staples

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: 013601 Aeration Time: 72hr

Lot Number: 1500900005EER Aeration Conditions: ≈105°F

Cycle Number: ZA500136 Extraction Time: 2hr

Component Weight: 116.593 g Extraction Temp. 37C

Sample Weight: 116.593 g Water Weight: 101.530g

**Ethylene Chlorohydrin**

Dilution Factor: 0.8708

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | <14.5 | < 13 | < 1.47 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1052076 | 1056657 | 1054367 | 0.2 | 2690000 | 3.92 | 398 | 3 |

Total mg ETO: 0.398mg ETO

Dimensions of Sample 136cm2 Surface Area ($cm^2$) 136 cm2

µg ETO/ $cm^2$ 2.93ug ETO/cm2 mg EtCh/ $cm^2$ < 0.0108mg EtCh/cm2

Performed by: Lizbeth Jiminez Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1x 72hr
Staples

COPY

CHEM-033C
REV A

Roticulater 55 Poly
Stapler with Polysorb Staples
Sample Analysis Data Sheet

Reorder Code: 013601
Lot Number: 1500900005EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0892 g
Water Weight 1.1443 g
Component Wt. 0.4517 g
Sample Dimensions (cm) 3( 0.946 cm²)

Dilution Factor 12.8285
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.84 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | <14.5 | < 186 | <0.0840 |

**Ethylene Oxide**

Sample Weight 0.0905 g
Component Wt. 0.4517 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 180931 | 180993 | 180962 | 0.02 | 7560 | 23.9 |
| 2 | 4919 | 4936 | 4928 | 0.2 | 7560 | 0.652 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 24.6 ug
Total mg ETO 0.123 mg ETO
Dimensions of Sample (cm) 3( 0.946 cm²)

Residual (ppm) 272 ppm
Surface Area (cm²) 2.84 cm²

µg EtO/cm² 8.66 ug EtO/cm²

mg EtCh/cm² < 0.00584 mg EtCh/cm²

Performed by: Lupert C. Jiménez

Date: MAR-30-2015

Reviewed by: [signature]

Date: MAR-31-2015

Set C 1X 72hr
Shaft

COPY

CHEM-029C
REV A

Polyscrb Meniscal Stapler
**Sample Analysis Data Sheet**

Reorder Code: 160510 Aeration Time: 72hr

Lot Number: 1426500012EER Aeration Conditions: ≈105°F

Cycle Number: 24500136 Extraction Time: 2hr

Component Weight: 7.3720g Extraction Temp. 37C

Sample Weight: 1.8805g Water Weight: 4.9809g

**Ethylene Chlorohydrin**

Dilution Factor: 2.6487

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | <14.5 | < 38 | < 0.283 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no response | | < 368814 | — | 269000 | <1.37 | < 6.82 | < 4 |

Total mg ETO: < 0.0267mg ETO

Dimensions of Sample 2.800x 0.562x 0.236 Surface Area ($cm^2$) 4.73cm²

µg ETO/ $cm^2$ < 1.44ug ETO/cm² mg EtCh/ $cm^2$ < 0.0153mg EtCh/cm²

Performed by: Lizbeth Jiménez Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1x 72hr

Staple

COPY

CHEM-033C
REV A

Polysorb meniscal Stapler
Sample Analysis Data Sheet

Reorder Code: 160510
Lot Number: 1426500012 EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0241 g
Water Weight 1.1910 g
Component Wt. 0.0241 g
Sample Dimensions (cm) 0.826cm²

Dilution Factor 49.4191
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 0.826cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 717 | < 0.0173 |

**Ethylene Oxide**

Sample Weight 0.0251 g
Component Wt. 0.0251 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 195018 | 193365 | 194192 | 0.4 | 7560 | 25.7 |
| 2 | 3429 | 3419 | 3424 | 0.1 | 7560 | 0.453 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 26.1ug
Total mg ETO 0.0261 mg ETO
Dimensions of Sample (cm) 0.826cm²

Residual (ppm) 1040ppm
Surface Area (cm²) 0.826cm²

µg EtO/cm² 31.6 ug ETO/cm²

mg EtCh/cm² < 0.0209 mg EtCh/cm²

Performed by: Lupert Nimenez

Date: MAR-30-2015

Reviewed by: [illegible]

Date: MAR-31-2015

Set C 1X 72hr
Shaft

CHEM-029C
REV A

COPY

Polysorb Soft Tissue Anchor
**Sample Analysis Data Sheet**

Reorder Code: 273026 Aeration Time: 72hr

Lot Number: 1502600004EER Aeration Conditions: ≈105°F

Cycle Number: ZA500136 Extraction Time: 2hr

Component Weight: 12.4645g Extraction Temp. 37C

Sample Weight: 1.7552g Water Weight: 4.7758g

**Ethylene Chlorohydrin**

Dilution Factor: 2.7209

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | <77.1954 | — | 5.309 | <145 | < 39 | < 0.492 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1285155 | 1355312 | 1320234 | 2.7 | 269000 | 4.91 | 23.4 | 13 |

Total mg ETO: 0.166mg ETO

Dimensions of Sample L = 2.319 OD = 0.490 Surface Area ($cm^2$) 3.95cm²

µg ETO/ $cm^2$ 5.92ug ETO/cm² mg EtCh/ $cm^2$ < 0.0175 mg EtCh/cm²

Performed by: Lizbeth Jimenez Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1X72hr
Suture

COPY

Polysorb Soft Tissue Anchor
Ti-Cron Size 2-0 L = 91cm

CHEM-033C
REV A

Sample Analysis Data Sheet

Reorder Code: 273026
Lot Number: 1502600004EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.2645 g
Water Weight 5.6590 g
Component Wt. 0.2645 g
Sample Dimensions (cm) 91cm; 0.693

Dilution Factor 21.3951
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 131cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | < 77.1954 | — | 5.309 | < 14.5 | < 310 | < 0.0821 |

**Ethylene Oxide**

Sample Weight ~~0.14474~~ 0.1474 LJJ MAR-27-2015 g
Component Wt. 0.2746 g

Extraction Time 30min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 556838 | 562851 | 559845 | 0.5 | 7560 | 74.1 |
| 2 | 92483 | 91591 | 92037 | 0.5 | 7560 | 12.2 |
| 3 | 8205 | 8127 | 8166 | 0.5 | 7560 | 1.08 |
| | | | | | | |

Total ETO content (µg) 87.4 ug ETO
Total mg ETO 0.163 mg ETO
Dimensions of Sample (cm) 48.8 cm ; 0.693

Residual (ppm) 593 ppm
Surface Area (cm²) 70.4 cm2

µg EtO/cm² 1.24 ug EtO/cm2

mg EtCh/cm² < 0.000626 mg EtCh/cm2

Performed by: Lupert Jimenez
Date: MAR-30-2015

Reviewed by: [signature]
Date: MAR-31-2015

Set C 1X 72hr
Anchor

CHEM-033C
REV A

COPY

Polysorb Soft Tissue Anchor
Sample Analysis Data Sheet

Reorder Code: 273026
Lot Number: 1502600004EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0603 g
Water Weight 1.3460 g
Component Wt. 0.0603 g
Sample Dimensions (cm) 1.975cm²

Dilution Factor 22.3217
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 1.975 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 324 | < 0.0195 |

**Ethylene Oxide**

Sample Weight 0.0608 g
Component Wt. 0.0608 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 330122 | 328706 | 329414 | 0.2 | 7560 | 43.6 |
| 2 | 7823 | 7801 | 7812 | 0.1 | 7560 | 1.03 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 44.6ug ETO
Total mg ETO 0.0446 mg ETO
Dimensions of Sample (cm) 1.975cm²

Residual (ppm) 734ppm
Surface Area (cm²) 1.975 cm²

µg EtO/cm² 22.6ug EtO/cm²

mg EtCh/cm² < 0.00988 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-30-2015

Reviewed by: [signature]
Date: MAR-31-2015

Set C 1X 72hr
Shaft | Cartridge

Poly GIA
Stapler with Polysorb Staples

CHEM-029C
REV A

COPY

**Sample Analysis Data Sheet**

Reorder Code: 030775 Aeration Time: 72hr

Lot Number: 150090001 0EER Aeration Conditions: ≈105°F

Cycle Number: 21500136 Extraction Time: 2hr

Component Weight: 61.674g Extraction Temp. 37C

Sample Weight: 61.674g Water Weight: 106.573g

**Ethylene Chlorohydrin**

Dilution Factor: 1.7280

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no response | | < 77.1954 | — | 5.309 | < 14.5 | < 25 | < 1.55 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 1029958 | 1072479 | 1051219 | 2.0 | 269000 | 3.91 | 417 | 7 |

Total mg ETO: 0.417 mg ETO

Dimensions of Sample 2 (9.082X 1.127X 1.186) Surface Area ($cm^2$) 89.4 $cm^2$

µg ETO/ $cm^2$ 4.66 ug ETO/$cm^2$ mg EtCh/ $cm^2$ < 0.0173 mg EtCh/$cm^2$

Performed by: Lizbeth Jimenez Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1X 72hr

Staples

COPY

CHEM-033C
REV A

Poly G1A
Stapler with Polysorb Staples
Sample Analysis Data Sheet

Reorder Code: 030775
Lot Number: 150090001OEER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0577 g
Water Weight 1.7004 g
Component Wt. 0.6492 g
Sample Dimensions (cm) 5 (0.513cm²)

Dilution Factor 29.4697
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.57cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | < 77.1954 | — | 5.309 | <14.5 | < 427 | < 0.277 |

**Ethylene Oxide**

Sample Weight 0.0573 g
Component Wt. 0.6492 g

Extraction Time 20min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 183489 | 183289 | 183389 | 0.05 | 7560 | 24.3 |
| 2 | 3473 | 3513 | 3493 | 0.6 | 7560 | 0.462 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 24.8 ug
Total mg ETO 0.281 mg ETO
Dimensions of Sample (cm) 5 (0.513cm²)

Residual (ppm) 433ppm
Surface Area (cm²) 2.57cm²

µg EtO/cm² 9.65 ug EtO/cm²

mg EtCh/cm² < 0.00959 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-20-2015

Reviewed by: [illegible]
Date: MAR-31-2015

Set c 1x 72hr
Clamp

COPY

Premium Polysorb
Loading Unit with Polysorb Stapks

CHEM-029C
REV A

**Sample Analysis Data Sheet**

Reorder Code: 013507L  Aeration Time: 72hr

Lot Number: 15026000007EER  Aeration Conditions: ≈105°F

Cycle Number: 21500136  Extraction Time: 2hr

Component Weight: 30.774g  Extraction Temp. 37C

Sample Weight: 30.774g  Water Weight: 91.280g

**Ethylene Chlorohydrin**

Dilution Factor: 2.9661

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | < 43 | < 1.32 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 814658 | 806915 | 810787 | 0.5 | 269000 | 3.01 | 275 | 9 |

Total mg ETO: 0.275mg ETO

Dimensions of Sample 7.659x3.608x0.777  Surface Area ($cm^2$) 67.5cm²

µg ETO/ $cm^2$ 4.07 ug ETO/cm²  mg EtCh/ $cm^2$ < 0.0196mg EtCh/cm²

Performed by: Lizbeth Ramirez  Date: MAR-30-2015

Reviewed by: [illegible]  Date: MAR-31-2015

Set C 1x 72hr
Staples

COPY

CHEM-033C
REV A

Premium Polysorb
Loading Unit with Polysorb Staples
Sample Analysis Data Sheet

Reorder Code: 013507L
Lot Number: 1502600007EER
Cycle Number: ZA 500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1085 g
Water Weight 1.6674 g
Component Wt. 0.4185 g
Sample Dimensions (cm) 5 (0.732cm²)

Dilution Factor 15.3677
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 3.66cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no response | | <77.954 | — | 5.309 | <14.5 | <223 | <0.0933 |

**Ethylene Oxide**

Sample Weight 0.1090 g
Component Wt. 0.4185 g

Extraction Time 20min
Extraction Temp. 150c

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 235580 | 233103 | 234342 | 0.5 | 7560 | 31.0 |
| 2. | 7955 | 7956 | 7956 | 0.01 | 7560 | 1.05 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 32.1ug ETO
Total mg ETO 0.123mg ETO
Dimensions of Sample (cm) 5 (0.732cm²)

Residual (ppm) 294ppm
Surface Area (cm²) 3.66cm²

µg EtO/cm² 8.77ug ETO/cm²

mg EtCh/cm² < 0.00661mgEtCh/cm²

Performed by: Lizbeth Nimeney
Date: MAR-30-2015

Reviewed by: [signature]
Date: Mar-31-2015

Set C 1x 72hr
~~Buttre~~ Shaft / Cartridge
LJJ MAR 17 2015

CHEM-029C
REV A

COPY

## Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT  Aeration Time: 72hr

Lot Number: 1431600005EER  Aeration Conditions: ≈105°F

Cycle Number: ZA500136  Extraction Time: 2hr

Component Weight: 33.417g  Extraction Temp. 37C

Sample Weight: 33.417g  Water Weight: 123.387g

### Ethylene Chlorohydrin

Dilution Factor: 3.692

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <54 | <1.79 |

### Ethylene Oxide

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| 78103 | 79165 | 78634 | 0.7 | 245000 | 0.321 | 39.6 | 1 |

Total mg ETO: LJJ MAR-18-2015 ~~0.040~~ 0.040 mg ETO

Dimensions of Sample L= 11cm OD= 1.173  Surface Area ($cm^2$) 42.7cm2

µg ETO/ $cm^2$ 0.927 µg ETO/cm2  mg EtCh/ $cm^2$ <0.042 ~~<0.485~~ mg/cm2
LJJ MAR-18-2015

Performed by: Lizbeth [signature]  Date: MAR-18-2015

Reviewed by: [signature]  Date: Mar 18, 2015

Set C 1X 72hr
Buttress

EndoGIA

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT
Lot Number: 1431600005EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.0735 g
Water Weight 3.0402 g
Component Wt. 0.0735 g
Sample Dimensions (cm) 2(7.262x1.007x0.007)

Dilution Factor 41.36
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2(14.7) = 29.4 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no ~~24.127~~ | response ~~23.731~~ | <77.1954 | — | 5.309 | <14.5 | <600 | <0.044 |

JC 3-17-15

**Ethylene Oxide**

Sample Weight 0.0756 g
Component Wt. 0.0756 g

Extraction Time 20 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 606.149 | 614.469 | ~~605.309~~ 610.309 LJJ MAR-18-2015 | 0.7 | 30.7 | 19.9 |
| 2 | 23.731 | 24.127 | 23.929 | 0.8 | 30.7 | 0.779 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) MAR-18-2015 LJJ ~~20.6~~ 20.7
Total mg ETO 0.021 mg
Dimensions of Sample (cm) 2(7.222x1.032x0.008)

Residual (ppm) 274 ppm
Surface Area (cm²) 2(15.0) = 30 cm²

µg EtO/cm² 0.690 ~~0.68~~ µg/cm² LJJ MAR 18-2015

mg EtCh/cm² <0.0015 mg/cm² LJJ MAR-18-2015

Performed by: [signature]
Date: Mar 18, 2015

Reviewed by: [signature]
Date: MAR-18-2015

Set C 1X72hr

Staples

Endo G1A

CHEM-033C
REV A

COPY

Sample Analysis Data Sheet

Reorder Code: EG1ATRS60AMT
Lot Number: 1431600005EER
Cycle Number: ZA500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1394 g
Water Weight 0.7317 g
Component Wt. 0.1394 g
Sample Dimensions (cm) 90 staples; 0.0575

Dilution Factor 5.249
Extraction Time MAR-16-2015 LN ~~room~~ 24hr
Extraction Temp. room temp
Surface Area 5.18 cm2

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| | | | | | | | |

**Ethylene Chlorohydrin**

| | | | | | | | |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | – | 5.309 | <14.5 | <76 | <0.011 |

**Ethylene Oxide**

Sample Weight 0.1429 g
Component Wt. 0.1429 g

Extraction Time 10 min
Extraction Temp. 150C

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | no | response | <51.073 | – | 30.7 | <1.66 |
| | | | | | | |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) <1.66
Total mg ETO <0.002 ~~<0.0017~~ mg LN MAR-16-2015
Dimensions of Sample (cm) 90 staples; 0.0575

µg EtO/cm² <0.320 µg/cm2

Residual (ppm) <12 ppm

Surface Area (cm²) 5.18 cm²

mg EtCh/cm² <0.0020 mg/cm2

Performed by: [signature]

Date: Mar 18, 2015

Reviewed by: [signature]

Date: MAR-18-2015

Set C 1X 72hr
Shaft

COPY

CHEM-029C
REV A

ReliaTack
Articulating Reloadable Fixation Device
**Sample Analysis Data Sheet**

Reorder Code: RELJACK3X10 Aeration Time: 72hr

Lot Number: 143240000.5EER Aeration Conditions: ~105°F

Cycle Number: Z1500136 Extraction Time: 2hr

Component Weight: 3.6838g Extraction Temp. 37C

Sample Weight: 1.93169 Water Weight: 5.8692g

**Ethylene Chlorohydrin**

Dilution Factor: 4.4076

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| no | response | <77.1954 | — | 5.309 | <14.5 | < 64 | <0.235 |

**Ethylene Oxide**

| Response A | Response B | Average Response | % Deviation | Response Factor | EtO Content | Total EtO (µg) | ETO ppm |
|---|---|---|---|---|---|---|---|
| no | response | <374470 | — | 269 000 | < 1.39 | < 8.16 | < 6 |

Total mg ETO: < 0.0226 mg ETO

Dimensions of Sample L=2.509 OD=0.548 ID=0.393 Surface Area ($cm^2$) 7.65 $cm^2$

µg ETO/ $cm^2$ < 1.07 µg ETO/$cm^2$ mg EtCh/ $cm^2$ < 0.0111 mg EtCh/$cm^2$

Performed by: Lizbeth Nmency Date: MAR-30-2015

Reviewed by: [illegible] Date: MAR-31-2015

Set C 1x 72hr
Jacks

CHEM-033C
REV A

COPY

ReliaJack
Articulating Reloadable Fixation Device
Sample Analysis Data Sheet

Reorder Code: RELJACK 3X10
Lot Number: 1432400005EER
Cycle Number: E1500136

Aeration Time: 72hr
Aeration Conditions: ≈105°F

**Ethylene Chlorohydrin**

Sample Weight 0.1288 g
Water Weight 1.3659 g
Component Wt. 0.2555 g
Sample Dimensions (cm) 5(0.596cm²)

Dilution Factor 10.6048
Extraction Time 24hr
Extraction Temp. room temp
Surface Area 2.98 cm²

| Response A | Response B | Average Response | % Deviation | Response Factor | Water Content (µg/g) | Residual (ppm) | Total mg |
|---|---|---|---|---|---|---|---|
| **Ethylene Chlorohydrin** | | | | | | | |
| no response | | <77.1954 | — | 5.309 | <14.5 | < 154 | <0.0393 |

**Ethylene Oxide**

Sample Weight 0.1272 g
Component Wt. 0.2555 g

Extraction Time 20min
Extraction Temp. 150

| Extraction No. | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 680176 | 683257 | 681717 | 0.2 | 7560 | 90.2 |
| 2 | 22819 | 22425 | 22622 | 0.9 | 7560 | 2.99 |
| | | | | | | |
| | | | | | | |

Total ETO content (µg) 93.2 ug ETO
Total mg ETO 0.187 mg ETO
Dimensions of Sample (cm) 5(0.596cm²)

Residual (ppm) 733ppm
Surface Area (cm²) 2.98cm²

µg EtO/cm² 31.3ug ETO/cm²

mg EtCh/cm² < 0.00665 mg EtCh/cm²

Performed by: Lizbeth Jimenez
Date: MAR-30-2015

Reviewed by: [illegible]
Date: MAR-31-2015

# Aeration Validation

## Set "C"

## 72-Hr Secondary Aeration w/ Vacuum Drying

V-Loc 180: 1436400010EER

V-Loc 180 Reload: 1436400016EER

Maxon: 1436400022EER

Set C 1x 72hr-VAC

COPY

CHEM-033D
REV A

V-LOC 180 Size - 0 L=60cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCL0536 Aeration Time: 72hr-VAC

Lot Number: 14364 00010 EER Cycle Number: Z1500136

Sample Weight: 0.1743g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 212848 | 212605 | 212727 | 0.1 | 7730 | 27.5 |
| 2 | 33868 | 34133 | 34001 | 0.4 | 7730 | 4.40 |
| 3 | 2362 | 2324 | 2343 | 0.8 | 7730 | 0.303 |
| | | | | | | |

Total ETO Content: 32.2ug Residual (ppm): 185ppm

Total weight of component: 0.2124g Total mg ETO: 0.0392mg ETO

Sample Dimensions (cm) 49.2cm ; 7.075 Surface Area of Sample ($cm^2$) 6.95cm²

µg EtO/$cm^2$: 4.63ug ETO/cm²

Performed by: Lizbeth Nimeny Date: MAR-31-2015

Reviewed by: [illegible] Date: APR-1-2015

Set C 1X 72hr

CHEM-033D
REV A

COPY

V-LOC 180 Reload Size - 0 L= 20cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: VLOCA008L Aeration Time: 72hr-VAC

Lot Number: 1436400016EER Cycle Number: ZA500136

Sample Weight: 0.1799g Extraction Time: 30min

Extraction Temp: 150C

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 188160 | 189399 | 188780 | 0.3 | 7730 | 24.4 |
| 2 | 20039 | 19967 | 20003 | 0.2 | 7730 | 2.59 |
| 3 | 1190 ~~1076~~ LT MAR 31-2015 | 1161 | 1176 | 1.2 | 7730 | 0.152 |
| | | | | | | |

Total ETO Content: 27.1ug Residual (ppm): 151 ppm

Total weight of component: 0.0699g Total mg ETO: ~~0.011~~ 0.0105 mg ETO SB APR-1-2015

Sample Dimensions (cm) 51.5cm ; 7.075 Surface Area of Sample ($cm^2$) 7.28cm2

µg EtO/$cm^2$: 3.72ug EtO/cm2

Performed by: [signature] Date: MAR-31-2015

Reviewed by: [signature] Date: APR-1-2015

Set C 1x 72hr -VAC

CHEM-033D
REV A

COPY

Maxon Size 1 L = 90cm

# Ethylene Oxide Sample Analysis Data Sheet

Reorder Code: 8886626971 Aeration Time: 72hr-VAC

Lot Number: 1436400022EER Cycle Number: ZA500136

Sample Weight: 0.1737g Extraction Time: 20 mins.

Extraction Temp: 150c

| Extraction | Response A | Response B | Average Response | % Deviation | Response Factor | ETO Content |
|---|---|---|---|---|---|---|
| 1 | 266610 | 267162 | 266886 | 0.1 | 7730 | 34.5 |
| 2 | 26417 | 26422 | 26420 | 0.01 | 7730 | 3.42 |
| | | | | | | |
| | | | | | | |

Total ETO Content: 37.9ug Residual (ppm): 218ppm

Total weight of component: 0.3160g Total mg ETO: 0.0689mgETO

Sample Dimensions (cm) 49.5cm ; 7.015 Surface Area of Sample ($cm^2$) 7.00cm²

µg EtO/$cm^2$: 5.41 ug ETO/cm2

Performed by: [signature] Date: MAR-31-2015

Reviewed by: [signature] Date: APR-1-2015