Message

From: Strynar, Mark [/O=EXCHANGELABS/OU=EXCHANGE ADMINISTRATIVE GROUP (FYDIBOHF23SPDLT)/CN=RECIPIENTS/CN=5A9910D5B38E471497BD875FD329A20A-STRYNAR, MARK]
Sent: 10/23/2018 2:32:08 PM
To: Fenton, Suzanne (NIH/NIEHS) [E] [suzanne.fenton@nih.gov]; Waidyanatha, Suramya (NIH/NIEHS) [E] [waidyanathas@niehs.nih.gov]; Devito, Michael (NIH/NIEHS) [E] [michael.devito@nih.gov]
CC: Collins, Brad (NIH/NIEHS) [E] [collinsb@niehs.nih.gov]; Blystone, Chad (NIH/NIEHS) [E] [blystonecr@niehs.nih.gov]
Subject: RE: chemicals to order

I will update. One change the meeting is next Wednesday (10-31-18).

Mark

From: Fenton, Suzanne (NIH/NIEHS) [E] [mailto:suzanne.fenton@nih.gov]
Sent: Tuesday, October 23, 2018 10:16 AM
To: Strynar, Mark <Strynar.Mark@epa.gov>; Waidyanatha, Suramya (NIH/NIEHS) [E] <waidyanathas@niehs.nih.gov>; Devito, Michael (NIH/NIEHS) [E] <michael.devito@nih.gov>
Cc: Collins, Brad (NIH/NIEHS) [E] <collinsb@niehs.nih.gov>; Blystone, Chad (NIH/NIEHS) [E] <blystonecr@niehs.nih.gov>
Subject: RE: chemicals to order

Mark and I had a few minutes to chat on this yesterday – he is meeting with Jason Surratt (UNC) on Wednesday (tomorrow) to discuss the production of Nafion BP1 and BP2 in their lab, and Mark agreed to discuss getting enough of the purified products made that we could have some. There may be costs of purification columns, etc that we may need to help with. Do you think if we ordered the Nafion BP1 and BP2 through Chemours that they would give it to us??

Also, he will ask Jason if their synthetic chemists can give us a quote to fractionate the 10 AFFF in our possession – through the Center.

Mark, you can update all once you get more information on those two requests… whatever is easiest.

Thanks again.

Sue

From: Strynar, Mark <Strynar.Mark@epa.gov>
Sent: Tuesday, October 23, 2018 7:48 AM
To: Fenton, Suzanne (NIH/NIEHS) [E] <suzanne.fenton@nih.gov>; Waidyanatha, Suramya (NIH/NIEHS) [E] <waidyanathas@niehs.nih.gov>; Devito, Michael (NIH/NIEHS) [E] <Michael.Devito@nih.gov>
Cc: Collins, Brad (NIH/NIEHS) [E] <collinsb@niehs.nih.gov>; Blystone, Chad (NIH/NIEHS) [E] <blystonecr@niehs.nih.gov>
Subject: RE: chemicals to order

Sue,

I had a few comments on the Excel spreadsheet. Synquest has some of the items listed available and cheaper. I also made other comments (see yellow highlights).

Mark

From: Fenton, Suzanne (NIH/NIEHS) [E] [mailto:suzanne.fenton@nih.gov]
Sent: Friday, October 19, 2018 5:35 PM
To: Waidyanatha, Suramya (NIH/NIEHS) [E] <waidyanathas@niehs.nih.gov>; Devito, Michael (NIH/NIEHS) [E] <michael.devito@nih.gov>
Cc: Collins, Brad (NIH/NIEHS) [E] <collinsb@niehs.nih.gov>; Blystone, Chad (NIH/NIEHS) [E] <blystonecr@niehs.nih.gov>
Subject: RE: chemicals to order

Hey there Suramya, sorry to send this so late on a Friday, but SOT abstracts and letters to support student award nominations, etc has slowed me down a bit this week!

In response to the multiple emails we have had on this topic…

1. We received the BPA-g – thank you to Brad for getting this moving. Greatly appreciated.
2. Mike and I have talked further on the PFAS list and we have suggestions on where to get them from based on discussion with Mark Strynar… (will save some $$). Attached.
3. Mike and I want to talk to you about the other things that we cannot just "buy". We have AFFF that we would like to get fractionated in to the fluorinated and non-fluorinated phases for in vitro and possibly in vivo testing. We have at least a gallon of each, and 5 gal of some. We are particularly interested in obtaining the mixture of C6s that are contained in several (most) of the AFFF, but getting the fluorinated fraction would really help to allow our collaborators to identify any trace remaining legacy PFAS in that fraction and possibly the identity of more of the smaller PFAS. There is so much other gunk in there, that it makes that job difficult. There are a couple of chemists at UNC that could do the fractionation, but not sure if this is a possibility if they require funds to do it. Second, apparently it is not difficult to make the Nafion byproducts that we actually need, and we want to explore the possibilities of getting those made – really have not identified anyone in particular that can do it, but I can get guidance on starting material and the exact identity of end products needed.

Just wanted to send this to you before we meet on Monday.. hoping you will see it before then…

Have a great weekend,
Sue

From: Waidyanatha, Suramya (NIH/NIEHS) [E]
Sent: Thursday, October 04, 2018 8:43 AM
To: Fenton, Suzanne (NIH/NIEHS) [E] <suzanne.fenton@nih.gov>; Devito, Michael (NIH/NIEHS) [E] <Michael.Devito@nih.gov>
Cc: Collins, Brad (NIH/NIEHS) [E] <collinsb@niehs.nih.gov>; Blystone, Chad (NIH/NIEHS) [E] <blystonecr@niehs.nih.gov>; Waidyanatha, Suramya (NIH/NIEHS) [E] <waidyanathas@niehs.nih.gov>
Subject: Re: chemicals to order

Hi Sue,
Yes we can send the BPA-glu now. Please send us the shipping information including the name, phone # and email of the person receiving it. Please allow 2 weeks to receive.

As for the PFAS chemicals, can you send us the final spreadsheet with names CAS etc so we can work with the contractor to procure them. Please include
Nafion by products you are referring to so we can see whether we get it synthesized. Working with an academic lab for a custom synthesis would be challenging if they don't have a mechanism in place to receive the payment.

Ex. 6 Personal Privacy (PP)

Thanks
Suramya

Suramya Waidyanatha, Ph.D
Chemistry and ADME Resources Group Leader

Program Operations Branch
Division of National Toxicology Program
National Institute of Environmental Health Sciences
PO Box 12233, MD:K2-07
Research Triangle Park, NC 27709
Ph: 984.287.3203
https://www.niehs.nih.gov/research/atniehs/labs/pob/staff/suramya/index.cfm

---

From: "Fenton, Suzanne (NIH/NIEHS) [E]" <suzanne.fenton@nih.gov>
Date: Thursday, October 4, 2018 at 8:30 AM
To: "Waidyanatha, Suramya (NIH/NIEHS) [E]" <waidyanathas@niehs.nih.gov>, "Devito, Michael (NIH/NIEHS) [E]" <michael.devito@nih.gov>
Cc: Brad Collins <collinsb@niehs.nih.gov>, "Blystone, Chad (NIH/NIEHS) [E]" <blystonecr@niehs.nih.gov>
Subject: RE: chemicals to order

Hi Suramya,

I have had a long talk with the folks at EPA that discovered and reported the contamination in the Cape Fear River. Apparently, PFMOBA is not really there… . It is actually PEPA or PMPA (I don't know their long name), but PFMOBA was inaccurately reported as its identity … so, I am not sure we want that one?? (MIKE?).

6:2 FTS is in the AFFF and is available from Fluoryx cat # 27619-97-2 for $78/25 g – please get 100 gm

PFMOAA is also available from Fluoryx cat#FC23-02-01 for $1300/g which is half the price of the other source you gave us. Not sure how much to get at this cost, but we need to test this one as it does not seem to be going away in the Cape Fear area… 10 gm would be enough for anything that we want it for.

Nafion that you had on the list is not the right product. That is not in the water and we need the byproducts, so it appears we will have to have that synthesized and according to Mark and James (EPA), that is not difficult. There is a chemist at UNC that apparently can do it. Can we contract them to do it?

ALSO, last but not least, can we get some more BPA-gluc as soon as you hear back on it. Trying to finish up a paper…

Mike, please chime in as you see fit…

Thanks for your help on these…

Sue

From: Waidyanatha, Suramya (NIH/NIEHS) [E]
Sent: Friday, September 14, 2018 12:35 PM
To: Devito, Michael (NIH/NIEHS) [E] <Michael.Devito@nih.gov>; Fenton, Suzanne (NIH/NIEHS) [E] <suzanne.fenton@nih.gov>
Cc: Collins, Brad (NIH/NIEHS) [E] <collinsb@niehs.nih.gov>; Waidyanatha, Suramya (NIH/NIEHS) [E] <waidyanathas@niehs.nih.gov>
Subject: Re: chemicals to order

Mike/Sue,

Brad/MRI worked on this and have an update on the attached file.

Thanks
Suramya

Suramya Waidyanatha, Ph.D
Chemistry and ADME Resources Group Leader
Program Operations Branch
Division of National Toxicology Program
National Institute of Environmental Health Sciences
PO Box 12233, MD:K2-07
Research Triangle Park, NC 27709
Ph: 984.287.3203
https://www.niehs.nih.gov/research/atniehs/labs/pob/staff/suramya/index.cfm

---

From: "Devito, Michael (NIH/NIEHS) [E]" <michael.devito@nih.gov>
Date: Tuesday, September 4, 2018 at 6:47 PM
To: "Waidyanatha, Suramya (NIH/NIEHS) [E]" <waidyanathas@niehs.nih.gov>, "Fenton, Suzanne (NIH/NIEHS) [E]" <suzanne.fenton@nih.gov>
Subject: Fwd: chemicals to order

Suramya

Can one of your contracts provide us with these chemicals?

Sent from my iPhone

Begin forwarded message:

> **From:** "Fenton, Suzanne (NIH/NIEHS) [E]" <suzanne.fenton@nih.gov>
> **Date:** September 4, 2018 at 5:10:03 PM EDT
> **To:** "Devito, Michael (NIH/NIEHS) [E]" <michael.devito@nih.gov>
> **Subject: chemicals to order**
>
> Mike, if possible we would like to get our hands on the following:
>
> 1. More BPA-glucuronide. We had some in a plate for the obesogens screening, but need more and NTP or NCATS may have it… either way, we need some. Could you please ask for some.
> 2. ADONA CAS# 958445-44-8 (that may be the liquid form – I would like to have a salt). We have been bugging Wellington labs about this and they are working on it.
> 3. Nafion CAS# 31175-20-9 Several companies sell it…. I cannot find a structure of Mark's to make sure this is one of the two he found in the water. Not in the paper by Sun et al, so cannot tell. There is a Nafion product 1 and 2 in Mark's estimation and we could use them both.
> 4. The only other GenX like chemicals we may be able to acquire are these: PFO4DA CAS# 39492-90-5 (2 vendors listed), PFMOBA CAS#863090-89-5 (several vendors listed), and PFMOAA CAS# 674-13-5 (2 vendors listed). I looked all of them up that were reported in Sun et al… these are our best bets.
>
> Thanks,
> Sue

Suzanne E. Fenton, Ph.D.
Group Leader, Reproductive Endocrinology
NTP Labs
Division of the National Toxicology Program
NIEHS/NIH
111 TW Alexander Dr
Bldg 101, MD E1-08
Research Triangle Park, NC 27709

Work: 984-287-4182 - NEW
Work Cell: 919-485-9783
fentonse@niehs.nih.gov