Message

From: Johnsie Lang [jrlang@ncsu.edu]
Sent: 4/25/2019 10:44:03 AM
To: Hill, Donna [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=314e939d15314e119bf60e95644293db-Hill, Donna]
CC: Conley, Justin [/o=ExchangeLabs/ou=Exchange Administrative Group (FYDIBOHF23SPDLT)/cn=Recipients/cn=8e08a48a85d141dba00d8377d89e9a3e-Conley, Jus]
Subject: Re: Nafion byproduct 2 dosing info
Attachments: HA Calc.xlsx

Hi Justin,

To answer your question about environmental relevance, I have attached a spreadsheet I made to convert NOAELs to drinking water advisory levels. When you open notice you can change the cells in blue. I have provided the calculation used to set the GenX health goal in the current worksheet, but you can change this to see how other values change. Donna is referring to thinking about the highest concentrations people could ever be exposed to and not going way above that level when selecting doses. For example, the highest NBP2 ever measured was 45,200 ng/L. This concentration equates to less than 40 mg/kg-day. It is important to note that this conversion includes a 1000 safety factor. You may want to modify the values for weight and daily water intake to reflect a pregnant woman?

Feel free to contact me with any questions.

Thanks,
Johnsie

On Wed, Apr 17, 2019 at 3:43 PM Hill, Donna <Hill.Donna@epa.gov> wrote:

> Hi Justin,
>
> We've used 0.3, 3, and 6mg/kg PO once daily x 7 days. The main effect has been increased liver wt and liver/BWT, even down to the males at 0.3mg/kg. The 6 mg/kg causes elevation in liver enzymes and the beginning of lipid infiltration, but this is not environmentally relevant unless you live in areas of industrial exposure (air and water).
>
> Anything else to add Johnsie?
>
> Donna
>
> **From:** Conley, Justin
> **Sent:** Wednesday, April 17, 2019 1:29 PM
> **To:** Hill, Donna <Hill.Donna@epa.gov>; Lang, Johnsie <lang.johnsie@epa.gov>
> **Subject:** Nafion byproduct 2 dosing info

We're getting ready to do some short and long term dosing studies with NABP2 in rats and wanted to see if you could share the doses you used and effect levels you've found in mice so far so we can figure out what dosing levels we want to use.

Thanks!

Justin Conley

Postdoctoral Toxicologist

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