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X-Spam-TCS-SCL: 0:0  
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From: Jeff Loewe <jeff.loewe@microbac.com>  
To: Marty <mlemus@coollooks.net>  
CC: "lisanguyen@coollooks.net" <lisanguyen@coollooks.net>, Dan Paluch  
<dan.paluch@microbac.com>  
Date: Fri, 22 Apr 2011 10:09:32 -0700  
Subject: RE: 11D0684 / Fredericksburg, VA / Hg Analysis  
Thread-Topic: 11D0684 / Fredericksburg, VA / Hg Analysis  
Thread-Index: AcwA+VR84t+MpyKQTrWNnFOAlwP4VAAEqjKg  
Accept-Language: en-US  
X-MS-Has-Attach: yes  
X-MS-TNEF-Correlator:  
acceptlanguage: en-US  
X-OriginatorOrg: microbac.com

Marty,

In response to your questions....

- A. Yes; as discussed we had taken a portion of your sample and added a measured amount of Mercury to it. This is performed at the same time we prepare your sample for its analysis (i.e. before analysis). As it turns out, this sample had a Mercury concentration much higher than what we added for the accuracy/precision evaluation. Due to the high concentration in the sample as received, we were unable to assess the recovery of this spike addition. Put another way, we added a needle to a haystack and it's impossible to see how much difference is made by the needle.
- B. The result from your sample is 15,000 mg/Kg (equivalent to 15,000 ppm). Our Reporting Limit is a lowest amount (not the max amount) we would be able to detect. The concentration in your sample is well above the lowest which we can detect/measure. In fact, your sample required us to clean after we analyzed it then we needed to prepare an 80,000-fold dilution and reanalyze. I cannot comment on the 'level of danger' from 15,000ppm Hg. That said, 15,000ppm is equivalent to 1.5%. In the realm of some environmental regulations requiring less than 0.2ppm (i.e. less than 0.00002%) to keep our natural resources mercury free this sample does contain a high level of Mercury. I will leave the topic of danger level to the medical experts.
- C. This page includes the data from the quality control tests performed in association with your sample. B013729-BLK1 is a negative control sample we processed and indicates no contamination from our analytical procedure. B013729-BS1 is a positive control sample we process to evaluation the ability of our procedure to recovery analyte if it is in fact present. Our procedure recovered 85% of the Mercury in the control sample thereby indicating acceptable analytical control. B013729-MS1 and B013729-MSD1 are the spike and duplicate spike of your sample. As indicated above, we were unable to measure the recovery of the added analyte due to the extremely high concentration already in the sample.

I trust this information will assist your understanding. Should you have further questions, please contact us.

Thank you,



**Jeff Loewe**  
Division Manager  
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**From:** Marty [mailto:mlemus@coollooks.net]  
**Sent:** Friday, April 22, 2011 9:23 AM  
**To:** Jeff Loewe  
**Cc:** lisanguyen@coollooks.net  
**Subject:** Fwd: 11D0684 / Fredericksburg, VA / Hg Analysis

Jeff,

Just wanted to go over these results with you so I could fully comprehend what this is about. I will be reporting this on our Website blog so need to know what I am talking about.

A. On page 3 "The Matrix Spike and Matrix Spike Duplicate performed on the Ling Zhi Whitening Cream sample failed the accuracy criteria for Mercury. This bias is due to the high indigenous analyte concentration (relative to the spike amount)." Does this mean that the concentration of HG was higher in the sample than the spike amount?

B. Page 4

Result	Reporting limit
15000	3100

Not sure if reporting limit 3100 and result 15000. Does this say that 15000ppm Hg in product, although 3100 was the max you could accurately test? Is 15000 estimated, or an accurate value? Also 15000 hg would be a dangerously high concentration of HG correct?

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## Analytical QC Summary

**Client:**

**Work Order:** 11D0684

**Project:**

**Metals - Quality Control**

Fredericksburg, VA / Hg Analysis

WALK-IN CLIENT

**Batch:** B013729 **Prep:** SW-846 7471

**Total Mercury by CVAA**

Blank (B013729-BLK1) 04/20/2011 08:20

04/20/2011 14:14

**Prepped:**

**Analyzed:**

**Sample ID:**

**Source:**

**Method:** SW-846 7471A

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	ND	0.0010	mg/Kg							

Mercury ND 0.0010 mg/Kg

LCS (B013729-BS1) 04/20/2011 08:20

04/20/2011 14:16

**Prepped:**

**Analyzed:**

**Sample ID:**

**Source:**

**Method:** SW-846 7471A

Analyte	Result	Limit	Units	Level	Result	%REC	Limits	RPD	Limit	Qual
Mercury	5.98	2.0	mg/Kg	7.070	84.6	41.9	122			

Mercury 5.98 2.0 mg/Kg 7.070 84.6 41.9-122

Matrix Spike (B013729-MS1) 04/20/2011 08:20

04/20/2011 14:42

**Prepped:**

**Analyzed:**

**Sample ID:**