

Baltimore Division
2101 Van Deman Street • Baltimore, MD 21224

Phone: 410-633-1800 Fax: 410-633-6553 www.microbac.com

COVER LETTER

SIMON VAINBERG SHAW ENVIRONMENTAL & INFRA. 17 PRINCESS ROAD LAWRENCEVILLE, NJ 08648

RE: CONSORTIUM SAMPLES

February 15, 2011 Report No.: 11B0252

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Baltimore Division on 02/03/2011 10:30.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

	And Fred Commencer	
	and the Control of th	2/15/2011
Final report reviewed by:	Mark B. Horan/Laboratory Director	Report issue date

All samples received in proper condition and results conform to ISO 17025 standards unless otherwise noted.

If we have not met or exceeded your expectations, please contact the Director or Trevor Boyce, President at tboyce@microbac.com or Robert Morgan. Chief Operation Officer, at rmorgan@microbac.com.



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CERTIFICATE OF ANALYSIS

SHAW ENVIRONMENTAL & INFRA. 17 PRINCESS ROAD

LAWRENCEVILLE, NJ 08648

Project: CONSORTIUM SAMPLES
Project Number: CONSORTIUM SAMPLES

Project Manager: SIMON VAINBERG

Report: 11B0252

Reported: 02/15/2011 17:13

SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Туре	Date Sampled	Date Received
SDC-9 (83)	11B0252-01	Food (Liquid)	Not Specified	02/01/2011 00:00	02/03/2011 10:30
TCA-20 (66)	11B0252-02	Food (Liquid)	Not Specified	02/01/2011 00:00	02/03/2011 10:30

Microbac Laboratories, Inc., Baltimore Division

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

Mark B. Horan, Laboratory Director

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17 PRINCESS ROAD
LAWRENCEVILLE, NJ 08648

Project: CONSORTIUM SAMPLES
Project Number: CONSORTIUM SAMPLES

Report: 11B0252 Reported: 02/15/2011 17:13

Project Manager: SIMON VAINBERG

SDC-9 (83)

11B0252-01 (Food (Liquid)) Sampled: 02/01/2011 00:00; Type: Not Specified

		Reporting							
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes	
	Microbac Laboratories, Inc., Baltimore Division								
Microbiology							V-2-1		
E. Coli	ND	10	CFU/g	020311 1332	020511 1400	DML	AOAC 991.14		
Coliform, Total	ND	10	CFU/g	020311 1332	020511 1400	DML	AOAC 991.14		
Listeria monocytogens	NEGATIVE		per 25g	020311 1325	020511 1400	DML	AOAC 2003.12		
Salmonella	NEGATIVE		per 25g	020311 1330	020511 1030	DML	AOAC 2003.09		
Yeast and Mold	ND	10	CFU/g	020311 1333	020811 1310	PMH	FDA-BAM		
Microbac Laboratories Inc., Pittsburgh Division									
Microbiology									
Bacillus cereus	< 10	1.0	cfu per gram	020811 1525	020911 1345	MAG	CMMEF 4th 32 21		
Pseudomonas	< 100		cfu per gram	020811 1525	020911 1345	MAG	in house		

Microbac Laboratories, Inc., Baltimore Division

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SHAW ENVIRONMENTAL & INFRA. 17 PRINCESS ROAD

Project: CONSORTIUM SAMPLES
Project Number: CONSORTIUM SAMPLES

Report: 11B0252 Reported: 02/15/2011 17:13

LAWRENCEVILLE, NJ 08648 Project Manager: SIMON VAINBERG

TCA-20 (66)

11B0252-02 (Food (Liquid)) Sampled: 02/01/2011 00:00; Type: Not Specified

		Reporting						
Analyte	Result	Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
	Microl	oac Laborat	ories, Inc., Bal	timore Division				
Microbiology								
E. Coli	ND	10	CFU/g	020311 1332	020511 1400	DML	AOAC 991.14	
Coliform, Total	ND	10	CFU/g	020311 1332	020511 1400	DML	AOAC 991.14	
Listeria monocytogens	NEGATIVE		per 25g	020311 1325	020511 1400	DML	AOAC 2003.12	
Salmonella	NEGATIVE		per 25g	020311 1330	020511 1030	DML	AOAC 2003.09	
Yeast and Mold	ND	10	CFU/g	020311 1333	020811 1310	PMH	FDA-BAM	
Microbac Laboratories Inc., Pittsburgh Division								
Microbiology								
Bacillus cereus	< 10	1.0	cfu per gram	020811 1525	020911 1345	MAG	CMMEF 4th 32.21	
Pseudomonas	< 100		cfu per gram	020811 1525	020911 1345	MAG	in house	

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SHAW ENVIRONMENTAL & INFRA.

17 PRINCESS ROAD

Project: CONSORTIUM SAMPLES Project Number: CONSORTIUM SAMPLES Report: 11B0252

Reported: 02/15/2011 17:13

LAWRENCEVILLE, NJ 08648

Notes and Definitions

Project Manager: SIMON VAINBERG

NEGATIVE Z1

Analyte DETECTED DET

Analyte NOT DETECTED at or above the reporting limit ND

Not Reported NR

Sample results reported on a dry weight basis dry

Relative Percent Difference RPD

Certifications

Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.

- A2LA (Microbiology): 410.02 - A2LA (Environmental): 410.01

- A2LA (ELLAP): 410.01

- CPSC: 1115 - Maryland: 109

- Pennsylvania (NELAC): 68-00339

- USDA: S-53726 - Virginia: 00152



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Cooler Receipt Log

Cooler ID: Default Cooler		Cooler Temp: 6.80 °C	
Custody Seals Intact:	Yes	COC/Containers Agree:	Yes
Containers Intact:	Yes	Correct Preservation:	Yes
Received On Ice:	Yes	Correct Number of Containers Received:	Yes
Radiation Scan Acceptable:	Yes	Sufficient Sample Volume for Testing:	Yes
COC Present:	Yes	Samples Received in Proper Condition:	Yes

Comments:



February 1, 2011

Microbac Laboratories, Inc. Attn: Receiving Department Baltimore Division 2101 Van Deman Street Baltimore, MD 21224



11B0252

To Whom It May Concern:

Please, analyze the samples of our non-food products SDC-9 and TCA-20 for the following pathogens: Salmonella, Listeria monocytogens, Bacillus cereus, Pseudomonas aeruginosa, E. Coli, pathogenic yeast/mold, and total coliform.

Please, send the results to Simon Vainberg. You may contact him at 609-895-537 or through e-mail at simon.vainberg@shawgrp.com. Also, please send him the invoice. Our company will pay by credit card.

Sincerely,

Robert J. Steffan, Ph.D., Director

Biotechnology Development and Applications

Shaw Environmental, Inc.

17 Princess Rd.

Lawrenceville, NJ 08648

Tel. 609-895-5350

Fax. 609-895-1858

Cell 267-337-2005

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Cooler Receipt Form / Sample	Acceptance & Noncompliance Form
Number of Cooler Received:	Receipt Date / Time: 7/3/// /030 Work Order #
Form Completed By:	Work Order #
Shipper:	☐ Microbac ☐ Client LUPS ☐ FedEx
Custody Tape Intact:	YES/NO/NA
Containers Intact:	(YES)/NO
Sample Received on Ice or refrigerated:	(YES / NO
	Temperature: °C or
	Infrared (IR)Temperature: 6°C
Radiation Scan:	Negative or mR/hr
Chain of Custody Present with shipment:	YES NO
Sample Bottle IDs agree with COC:	YES NO
Preservation requirements met:	YES / NQ / Not Checked
Correct Number of Containers / Sample Volume:	YES (No (15 No. contact Client immediately)
Headspace in container:	YES / NO(NA)
Type of Sample:	Water Soil Wipes Oil Filter Solid
Container Type / Quantity:	Sludge Food Other
AUnpreservedH2SO4HNO3HCINaOH	NaOH/Ascorbic Acid Other()
B - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid Other(
C Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid Other(
D - Unpreserved H2SO4 HNO3 HCl NaOH E - Unpreserved H2SO4 HNO3 HCl NaOH	NaOH/Ascorbic Acid Other()
E Unpreserved H2SO4 HNO3 HCl NaOH H- Unpreserved H2SO4 HNO3 HCl NaOH	
KUnpreservedH2SO4HNO3HCINaOH	NaOH/Ascorbic Acid Other() NaOH/Ascorbic Acid Other()
L _ Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid Other(
M Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid Other(
W- Unpreserved H2SO4 HNO3 HCI NaOH V- Unpreserved HCI HCI / Ascorbic Acid HCI	NaOH/Ascorbic Acid Other(
F Unpreserved NaTHIO(Checked at time of Analysis)	/ NaTHIO (Checked at time of Analysis)
S - Unpreserved NaTHIO (Checked at time of Analysis)	A SECTION OF THE SECT
SNUnpreservedNaTHIONaTHIO/EDTA(Checked a	t time of Analysis)
J-Unpreserved	
Umpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid Other()
Unpreserved H2SO4 HNO3 HCI NaOH	NaOH/Ascorbic Acid Other()
Unpreserved H2SO4 HNO3 HC1 NaOH	NaOH/Ascorbic Acid Other(
Describe preservation requirements not met: All Acid preserved <2 pH NaOH preserved > 12 pH	All others >2 and <10 (usually 4-8)
Sample ID: H ₂ SO ₄ HNO ₃ NaOH	mls added
Sample ID: H ₂ SO ₄ HNO ₃ NaOH	mls added
Sample ID: H ₂ SO ₄ HNO ₃ NaOH	bobba alm
Sample ID: H ₂ SO ₄ HNO ₃ NaOH H ₂ SO ₄ HNO ₃ NaOH H ₂ SO ₄ - Sulfuric Acid, HNO ₃ - Nitric Acid, NaOH - Sodium Hydro	This detect
11307 - Surjune new, 11107 - Hinte New, Habit Boulam From the	sale, ASC - ASCOIOL ACIA, NOTINO Boulan Intosanae
Describe Anomalies:	
Contact information / Summary of Actions:	
Date / Time: Contact: Contact:	Contact By:
Comments:	Contact Dy.