



284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	6/13/2017 12:00:00 AM
Project:	LB88101	Date Received:	6/13/2017 12:00:00 AM
Client Sample ID:	HA3-WC1	SDG No.:	LB88101
Lab Sample ID:	I3665-04	Matrix:	Solid
Level (low/med):	low	% Solid:	76.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.36	U	1	0.63		3.2	mg/Kg	06/14/2017	06/15/2017	9065



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Report of Analysis

Client:		Date Collected:	6/13/2017 12:00:00 AM
Project:	LB88101	Date Received:	6/13/2017 12:00:00 AM
Client Sample ID:	HA3-WC2	SDG No.:	LB88101
Lab Sample ID:	I3665-09	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.082	U	1	0.58		2.9	mg/Kg	06/14/2017	06/15/2017	9065



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Report of Analysis

Client:		Date Collected:	6/13/2017 12:00:00 AM
Project:	LB88101	Date Received:	6/13/2017 12:00:00 AM
Client Sample ID:	HA3-WC2	SDG No.:	LB88101
Lab Sample ID:	I3665-09	Matrix:	Solid
Level (low/med):	low	% Solid:	82.2

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
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Color Before:

Clarity Before:

Texture:

Color After:

Clarity After:

Artifacts:

Comments:

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

D = Dilution

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

* = indicates the duplicate analysis is not within control limits.

E = Indicates the reported value is estimated because of the presence of interference.

OR = Over Range

N = Spiked sample recovery not within control limits



GENCHEM

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88101

SDG No.: LB88101

Contract: _____

Lab Code: CHEM

Case No.: LB88101

SAS No.: LB88101

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Phenolics	0.98	1	98	0	90 - 110		06/15/2017	10:25	LB88101



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88101

SDG No.: LB88101

Contract: _____ Lab Code: CHEM

Case No.: LB88101

SAS No.: LB88101

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	% RSD	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV1	Phenolics	0.98	1	98	0	90 - 110		06/15/2017	10:25	LB88101
CCV2	Phenolics	0.98	1	98	0	90 - 110		06/15/2017	10:25	LB88101



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88101 **SDG No.:** LB88101
Contract: **Lab Code:** CHEM **Case No.:** LB88101 **SAS No.:** LB88101

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Phenolics	0.0009	+/-0.05	U		0.05		06/15/2017	10:25	LB88101



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88101

SDG No.: LB88101

Contract:

Lab Code: CHEM

Case No.: LB88101

SAS No.: LB88101

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Phenolics	0.0013	+/-0.05	U		0.05		06/15/2017	10:25	LB88101
CCB2	Phenolics	0.0011	+/-0.05	U		0.05		06/15/2017	10:29	LB88101



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INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	<u>LB88101</u>	SDG No.:	<u>LB88101</u>				
Contract:	<u> </u>	Lab Code:	<u>CHEM</u>	Case No.:	<u>LB88101</u>	SAS No.:	<u>LB88101</u>

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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- 3b -
PREPARATION BLANK SUMMARY

Client: LB88101

SDG No.: LB88101

Instrument: Konelab 20

Sample ID	Analyte	Result (mg/Kg)	Acceptance Limit	Conc Qual	LOD mg/Kg	CRQL mg/Kg	M	Analysis Date	Analysis Time	Run
PB99788BL		SOLID		Batch Number:		PB99788		Prep Date:	06/14/2017	
	Phenolics	0.25	<2.5	U		2.5		06/15/2017	10:25	LB88101



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MATRIX SPIKE SUMMARY

client: LB88101 level: low sdg no.: LB88101
contract: lab code: CHEM case no.: LB88101 sas no.: LB88101
matrix: Solid sample id: I3665-04 client id: HA3-WC1MS
Percent Solids for Sample: 76.6 Spiked ID: I3665-04MS Percent Solids for Spike Sample: 76.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	62.6		0.63	U	64	97.8		



GENCHEM
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MATRIX SPIKE DUPLICATE SUMMARY

client: LB88101 level: low sdg no.: LB88101
contract: lab code: CHEM case no.: LB88101 sas no.: LB88101
matrix: Solid sample id: I3665-04 client id: HA3-WC1MSD
Percent Solids for Sample: 76.6 Spiked ID: I3665-04MSD Percent Solids for Spike Sample: 76.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	61.6		0.63	U	63.4	97.2		

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DUPLICATE SAMPLE SUMMARY

Client: LB88101 **Level:** LOW **SDG No.:** LB88101
Contract: **Lab Code:** CHEM **Case No.:** LB88101 **SAS No.:** LB88101
Matrix: Solid **Sample ID:** I3665-04 **Client ID:** HA3-WC1DUP
Percent Solids for Sample: 76.6 **Duplicate ID** I3665-04DUP **Percent Solids for Spike Sample:** 76.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	0.63	U	0.26	U			

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DUPLICATE SAMPLE SUMMARY

Client: LB88101 **Level:** LOW **SDG No.:** LB88101
Contract: **Lab Code:** CHEM **Case No.:** LB88101 **SAS No.:** LB88101
Matrix: Solid **Sample ID:** I3665-04MS **Client ID:** HA3-WC1MSD
Percent Solids for Sample: 76.6 **Duplicate ID** I3665-04MSD **Percent Solids for Spike Sample:** 76.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	62.6		61.6		2		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88101

SDG No.: LB88101

Contract:

Lab Code: CHEM

Case No.: LB88101

SAS No.: LB88101

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB99788BS Phenolics	mg/Kg	48.1	47.3		98.3	80 - 120	

Daily Analysis Runlog For Sequence/QC Batch ID # LB88101

Review By		Review On				
SubDirectory		LB88101		Test : Phenolics		
STD. NAME		STD REF.#				
ICAL Standard		WP55665				
ICV Standard		WP55666				
CCV Standard		WP55667				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55543				
Chk Standard		WP55568,WP53648,WP53649				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	0.05PPM	0.05PPM	CAL1	06/15/17 09:55		OK
2	0.1PPM	0.1PPM	CAL2	06/15/17 09:55		OK
3	0.25PPM	0.25PPM	CAL3	06/15/17 09:55		OK
4	0.50PPM	0.50PPM	CAL4	06/15/17 09:55		OK
5	1.0PPM	1.0PPM	CAL5	06/15/17 09:55		OK
6	2.0PPM	2.0PPM	CAL6	06/15/17 09:55		OK
7	ICV1	ICV1	ICV	06/15/17 10:25		OK
8	ICB1	ICB1	ICB	06/15/17 10:25		OK
9	CCV1	CCV1	CCV	06/15/17 10:25		OK
10	CCB1	CCB1	CCB	06/15/17 10:25		OK
11	PB99788BL	PB99788BL	MB	06/15/17 10:25		OK
12	PB99788BS	PB99788BS	LCS	06/15/17 10:25		OK
13	I3665-04	HA3-WC1	SAM	06/15/17 10:25		OK
14	I3665-04DUP	HA3-WC1DUP	DUP	06/15/17 10:25		OK
15	I3665-04MS	HA3-WC1MS	MS	06/15/17 10:25		OK
16	I3665-04MSD	HA3-WC1MSD	MSD	06/15/17 10:25		OK
17	I3665-09	HA3-WC2	SAM	06/15/17 10:25		OK
18	CCV2	CCV2	CCV	06/15/17 10:25		OK
19	CCB2	CCB2	CCB	06/15/17 10:29		OK