



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB86612

SDG No.: LB86612

Contract: _____ Lab Code: CHEM

Case No.: LB86612

SAS No.: LB86612

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		03/29/2017	12:30	LB86612
CCV2	Phenolics	0.98	1	98	0	90 - 110		03/29/2017	12:30	LB86612



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86612 **SDG No.:** LB86612
Contract: **Lab Code:** CHEM **Case No.:** LB86612 **SAS No.:** LB86612

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Phenolics	0.0069	+/-0.05	U		0.05		03/29/2017	12:30	LB86612



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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86612

SDG No.: LB86612

Contract:

Lab Code: CHEM

Case No.: LB86612

SAS No.: LB86612

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Phenolics	0.0034	+/-0.05	U		0.05		03/29/2017	12:30	LB86612
CCB2	Phenolics	0.0052	+/-0.05	U		0.05		03/29/2017	12:30	LB86612



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB86612

SDG No.: LB86612

Contract: Lab Code: CHEM

Case No.: LB86612

SAS No.: LB86612

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
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284 Sheffield Street, Mountainside NJ 07092 (908)-789-8900 Fax : 908 789 8922

Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86612	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	HHD-S1	SDG No.:	LB86612
Lab Sample ID:	I2422-01	Matrix:	Solid
Level (low/med):	low	% Solid:	63.8

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	1.1	J	1	0.75		3.8	mg/Kg	03/28/2017	03/29/2017	9065



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Report of Analysis

Client:		Date Collected:	3/23/2017 12:00:00 AM
Project:	LB86612	Date Received:	3/24/2017 12:00:00 AM
Client Sample ID:	HHD-S1	SDG No.:	LB86612
Lab Sample ID:	I2422-01	Matrix:	Solid
Level (low/med):	low	% Solid:	63.8

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



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- 3b -
PREPARATION BLANK SUMMARY

Client: LB86612

SDG No.: LB86612

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
PB97890BL		SOLID		Batch Number:		PB97890		Prep Date:	03/28/2017	
	Phenolics	0.18	<2.5	U		2.5		03/29/2017	12:30	LB86612



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MATRIX SPIKE SUMMARY

client: LB86612 level: low sdg no.: LB86612
contract: lab code: CHEM case no.: LB86612 sas no.: LB86612
matrix: Solid sample id: I2422-01 client id: HHD-S1MS
Percent Solids for Sample: 63.8 Spiked ID: I2422-01MS Percent Solids for Spike Sample: 63.8

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	76.7		1.1	J	74.6	101		



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- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB86612 level: low sdg no.: LB86612
contract: lab code: CHEM case no.: LB86612 sas no.: LB86612
matrix: Solid sample id: I2422-01 client id: HHD-S1MSD
Percent Solids for Sample: 63.8 Spiked ID: I2422-01MSD Percent Solids for Spike Sample: 63.8

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	77.2		1.1	J	76.1	100		

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DUPLICATE SAMPLE SUMMARY

Client: LB86612 **Level:** LOW **SDG No.:** LB86612
Contract: **Lab Code:** CHEM **Case No.:** LB86612 **SAS No.:** LB86612
Matrix: Solid **Sample ID:** I2422-01 **Client ID:** HHD-S1DUP
Percent Solids for Sample: 63.8 **Duplicate ID** I2422-01DUP **Percent Solids for Spike Sample:** 63.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	1.1	J	1.3	J	17		

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DUPLICATE SAMPLE SUMMARY

Client: LB86612 **Level:** LOW **SDG No.:** LB86612
Contract: **Lab Code:** CHEM **Case No.:** LB86612 **SAS No.:** LB86612
Matrix: Solid **Sample ID:** I2422-01MS **Client ID:** HHD-S1MSD
Percent Solids for Sample: 63.8 **Duplicate ID** I2422-01MSD **Percent Solids for Spike Sample:** 63.8

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	76.7		77.2		1		



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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB86612

SDG No.: LB86612

Contract:

Lab Code: CHEM

Case No.: LB86612

SAS No.: LB86612

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB97890BS Phenolics	mg/Kg	50	45.5		91	80 - 120	