CHEMTECH

GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB87484**   **SDG No.:** LB87484

Contract: **Lab Code:** CHEM   **Case No.:** LB87484   **SAS No.:** LB87484

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	0.97	1	97	0	90 - 110		05/16/2017	12:38	LB87484

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB87484   **SDG No.:** LB87484

Contract: **Lab Code:** CHEM   **Case No.:** LB87484   **SAS No.:** LB87484

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		05/16/2017	12:38	LB87484

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- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: **LB87484**   **SDG No.:** LB87484

Contract: _____ **Lab Code:** CHEM   **Case No.:** LB87484   **SAS No.:** LB87484

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
CCV2	Phenolics	0.97	1	97	0	90 - 110		05/16/2017	12:42	LB87484

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- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87484   **SDG No.:** LB87484

Contract: _____   **Lab Code:** CHEM   **Case No.:** LB87484   **SAS No.:** LB87484

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Phenolics	0.0012	+/-0.05	U		0.05		05/16/2017	12:38	LB87484

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- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

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Client: LB87484		**SDG No.:** LB87484
Contract:	**Lab Code:** CHEM	**Case No.:** LB87484 **SAS No.:** LB87484

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Phenolics	0.0023	+/-0.05	U		0.05		05/16/2017	12:38	LB87484

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- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client:	LB87484			SDG No.:	LB87484	
Contract:		**Lab Code:**	CHEM	**Case No.:**	LB87484	**SAS No.:** LB87484

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB2	Phenolics	0.0006	+/-0.05	U		0.05		05/16/2017	12:42	LB87484

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- 3a -
INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB87484   **SDG No.:** LB87484

Contract: _____   **Lab Code:** CHEM   **Case No.:** LB87484   **SAS No.:** LB87484

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:	5/12/2017 12:00:00 AM
Project:	LB87484	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-1COMP	SDG No.:	LB87484
Lab Sample ID:	I3147-02	Matrix:	Solid
Level (low/med):	low	% Solid:	92

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	-0.047	U	1	0.52		2.6	mg/Kg	05/15/2017	05/16/2017	9065

Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87484	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-2COMP	SDG No.:	LB87484
Lab Sample ID:	I3147-04	Matrix:	Solid
Level (low/med):	low	% Solid:	91.4

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.036	U	1	0.52		2.6	mg/Kg	05/15/2017	05/16/2017	9065

Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87484	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-3COMP	SDG No.:	LB87484
Lab Sample ID:	I3147-06	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Phenolics	0.12	U	1	0.52		2.6	mg/Kg	05/15/2017	05/16/2017	9065

Report of Analysis

Client:		Date Collected:	5/12/2017 12:00:00 AM
Project:	LB87484	Date Received:	5/12/2017 12:00:00 AM
Client Sample ID:	TP-3COMP	SDG No.:	LB87484
Lab Sample ID:	I3147-06	Matrix:	Solid
Level (low/med):	low	% Solid:	92.1

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

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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Client: LB87484		**SDG No.:** LB87484	

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
PB98965BL		**SOLID**		**Batch Number:**		**PB98965**		**Prep Date:**	**05/15/2017**	
	Phenolics	-0.049	<2.5	U		2.5		05/16/2017	12:38	LB87484

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MATRIX SPIKE SUMMARY

client:	LB87484	**level:**	low	**sdg no.:**	LB87484		
contract:		**lab code:**	CHEM	**case no.:**	LB87484	**sas no.:**	LB87484
matrix:	Solid	**sample id:**	I3147-02	**client id:**	TP-1COMPMS		

Percent Solids for Sample: 92   **Spiked ID:** I3147-02MS   **Percent Solids for Spike Sample:** 92

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	43		0.52	U	52.3	82.2		

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MATRIX SPIKE DUPLICATE SUMMARY

client:	LB87484	**level:**	low	**sdg no.:**	LB87484	
contract:		**lab code:**	CHEM	**case no.:**	LB87484	**sas no.:** LB87484
matrix:	Solid	**sample id:**	I3147-02	**client id:**	TP-1COMPMSD	
Percent Solids for Sample:	92	**Spiked ID:**	I3147-02MSD	**Percent Solids for Spike Sample:**	92	

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Phenolics	mg/Kg	75 - 125	43.7		0.52	U	52.8	82.8		

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DUPLICATE SAMPLE SUMMARY

Client: LB87484		**Level:** LOW		**SDG No.:** LB87484		
Contract:		**Lab Code:** CHEM		**Case No.:** LB87484	**SAS No.:** LB87484	
Matrix: Solid		**Sample ID:** I3147-02		**Client ID:** TP-1COMPDUP		
Percent Solids for Sample: 92		**Duplicate ID** I3147-02DUP		**Percent Solids for Spike Sample:** 92		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	0.52	U	-0.088	U			

"A control limit of $\pm$20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

DUPLICATE SAMPLE SUMMARY

Client: LB87484		**Level:** LOW		**SDG No.:** LB87484		
Contract:		**Lab Code:** CHEM		**Case No.:** LB87484	**SAS No.:** LB87484	
Matrix: Solid		**Sample ID:** I3147-02MS		**Client ID:** TP-1COMPMSD		
Percent Solids for Sample: 92		**Duplicate ID** I3147-02MSD		**Percent Solids for Spike Sample:** 92		

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Phenolics	mg/Kg	20	43		43.7		2		

"A control limit of $\pm$20% RPD for each matrix applies for sample values greater than 10 times Detection Limit"

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LABORATORY CONTROL SAMPLE SUMMARY

Client: LB87484   **SDG No.:**   LB87484

Contract: **Lab Code:**   CHEM   **Case No.:**   LB87484   **SAS No.:**   LB87484

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB98965BS							
Phenolics	mg/Kg	48.5	48.3		99.6	80 - 120	