

Daily Analysis Runlog For Sequence/QC Batch ID # LB88398

Review By		Review On				
SubDirectory		LB88398		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP55955				
ICV Standard		WP55958				
CCV Standard		WP55957				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55959				
Chk Standard		WP55755,WP54309,WP55837,WP55838				
Sr#	SampleId	ClientID	QcType	Date	Comment	Status
1	0.5PPM	0.5PPM	CAL1	06/28/17 08:42		OK
2	1.0PPM	1.0PPM	CAL2	06/28/17 08:42		OK
3	2.5PPM	2.5PPM	CAL3	06/28/17 08:42		OK
4	5.0PPM	5.0PPM	CAL4	06/28/17 08:42		OK
5	6.7PPM	6.7PPM	CAL5	06/28/17 08:42		OK
6	10.0PPM	10.0PPM	CAL6	06/28/17 08:42		OK
7	ICV1	ICV1	ICV	06/28/17 09:11		OK
8	ICB1	ICB1	ICB	06/28/17 09:11		OK
9	CCV1	CCV1	CCV	06/28/17 09:11		OK
10	CCB1	CCB1	CCB	06/28/17 09:11		OK
11	PB100163BL	PB100163BL	MB	06/28/17 09:11		OK
12	PB100163BS	PB100163BS	LCS	06/28/17 09:11		OK
13	I3879-01	I16-005-MH	SAM	06/28/17 09:11	High	Dilution
14	I3879-01DUP	I16-005-MHDUP	DUP	06/28/17 09:11	High	Dilution
15	I3879-01MS	I16-005-MHMS	MS	06/28/17 09:11	High	Dilution
16	I3879-01MSD	I16-005-MHMSD	MSD	06/28/17 09:11	High	Dilution
17	CCV2	CCV2	CCV	06/28/17 09:11		OK
18	CCB2	CCB2	CCB	06/28/17 09:12		OK
19	I3879-01DL	I16-005-MHDL	SAM	06/28/17 09:42	5X Dilution	Confirms
20	I3879-01DUPDL	I16-005-MHDUPDL	DUP	06/28/17 09:42	5X Dilution	Confirms
21	I3879-01MSDL	I16-005-MHMSDL	MS	06/28/17 09:42	5X Dilution	Confirms



Instrument ID : KONELAB

284 Sheffield Street, Mountainside, New Jersey 07092 Phone : 908 789 8900 Fax : 908 789 8922

Daily Analysis Runlog For Sequence/QC Batch ID # LB88398

Review By		Review On				
SubDirectory		LB88398		Test : TKN		
STD. NAME		STD REF.#				
ICAL Standard		WP55955				
ICV Standard		WP55958				
CCV Standard		WP55957				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP55959				
Chk Standard		WP55755,WP54309,WP55837,WP55838				
22	I3879-01MSDDL	I16-005-MHMSDDL	MSD	06/28/17 09:42	5X Dilution	Confirms
23	CCV3	CCV3	CCV	06/28/17 09:42		OK
24	CCB3	CCB3	CCB	06/28/17 09:42		OK



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

Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88398	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	I16-005-MH	SDG No.:	LB88398
Lab Sample ID:	I3879-01	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	730	OR	1	5.1		26.8	mg/Kg	06/26/2017	06/28/2017	SM4500 N Org



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

Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88398	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	I16-005-MHDL	SDG No.:	LB88398
Lab Sample ID:	I3879-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	TKN	754	D	5	25.7		134	mg/Kg	06/26/2017	06/28/2017	SM4500 N Org



Report of Analysis

Client:		Date Collected:	6/23/2017 12:00:00 AM
Project:	LB88398	Date Received:	6/23/2017 12:00:00 AM
Client Sample ID:	I16-005-MHDL	SDG No.:	LB88398
Lab Sample ID:	I3879-01DL	Matrix:	Solid
Level (low/med):	low	% Solid:	90.6

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



GENCHEM

- 2a -

INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: LB88398

SDG No.: LB88398

Contract: _____ Lab Code: CHEM

Case No.: LB88398

SAS No.: LB88398

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	TKN	4.5	5	90	0	80 - 120		06/28/2017	09:11	LB88398
CCV2	TKN	4.6	5	92	0	80 - 120		06/28/2017	09:11	LB88398
CCV3	TKN	4.6	5	92	0	80 - 120		06/28/2017	09:42	LB88398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88398

SDG No.: LB88398

Contract:

Lab Code: CHEM

Case No.: LB88398

SAS No.: LB88398

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	TKN	0.072	+/-0.5	U		0.5		06/28/2017	09:11	LB88398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88398

SDG No.: LB88398

Contract:

Lab Code: CHEM

Case No.: LB88398

SAS No.: LB88398

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	TKN	0.059	+/-0.5	U			0.5	06/28/2017	09:11	LB88398
CCB2	TKN	0.073	+/-0.5	U			0.5	06/28/2017	09:12	LB88398
CCB3	TKN	0.06	+/-0.5	U			0.5	06/28/2017	09:42	LB88398



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB88398

SDG No.: LB88398

Contract: Lab Code: CHEM

Case No.: LB88398

SAS No.: LB88398

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



GENCHEM
- 3b -
PREPARATION BLANK SUMMARY

Client: LB88398

SDG No.: LB88398

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
PB100163BL	TKN	SOLID 3.3	<24.5	Batch Number: U		PB100163 24.5		Prep Date: 06/28/2017	06/26/2017 09:11	LB88398



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88398 level: low sdg no.: LB88398
contract: lab code: CHEM case no.: LB88398 sas no.: LB88398
matrix: Solid sample id: I3879-01 client id: I16-005-MHMS
Percent Solids for Sample: 90.6 Spiked ID: I3879-01MS Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	1640	OR	730	OR	270	337	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88398 level: low sdg no.: LB88398
contract: lab code: CHEM case no.: LB88398 sas no.: LB88398
matrix: Solid sample id: I3879-01 client id: I16-005-MHMSD
Percent Solids for Sample: 90.6 Spiked ID: I3879-01MSD Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	2200	OR	730	OR	270	544	*	



GENCHEM
- 5a -
MATRIX SPIKE DUPLICATE SUMMARY

client: LB88398 level: low sdg no.: LB88398
contract: lab code: CHEM case no.: LB88398 sas no.: LB88398
matrix: Solid sample id: I3879-01DL client id: I16-005-MHMSDDL
Percent Solids for Sample: 90.6 Spiked ID: I3879-01MSDDL Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	MSD Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	1030	D	754	D	270	102		



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB88398 level: low sdg no.: LB88398
contract: lab code: CHEM case no.: LB88398 sas no.: LB88398
matrix: Solid sample id: I3879-01DL client id: I16-005-MHMSDL
Percent Solids for Sample: 90.6 Spiked ID: I3879-01MSDL Percent Solids for Spike Sample: 90.6

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
TKN	mg/Kg	75 - 125	1050	D	754	D	270	110		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88398 **Level:** LOW **SDG No.:** LB88398
Contract: **Lab Code:** CHEM **Case No.:** LB88398 **SAS No.:** LB88398
Matrix: Solid **Sample ID:** I3879-01 **Client ID:** I16-005-MHDUP
Percent Solids for Sample: 90.6 **Duplicate ID** I3879-01DUP **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	730	OR	717	OR	2		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88398 **Level:** LOW **SDG No.:** LB88398
Contract: **Lab Code:** CHEM **Case No.:** LB88398 **SAS No.:** LB88398
Matrix: Solid **Sample ID:** I3879-01DL **Client ID:** I16-005-MHDUPDL
Percent Solids for Sample: 90.6 **Duplicate ID** I3879-01DUPDL **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	754	D	749	D	1		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88398 **Level:** LOW **SDG No.:** LB88398
Contract: **Lab Code:** CHEM **Case No.:** LB88398 **SAS No.:** LB88398
Matrix: Solid **Sample ID:** I3879-01MS **Client ID:** I16-005-MHMSD
Percent Solids for Sample: 90.6 **Duplicate ID** I3879-01MSD **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	1640	OR	2200	OR	29	*	

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB88398 **Level:** LOW **SDG No.:** LB88398
Contract: **Lab Code:** CHEM **Case No.:** LB88398 **SAS No.:** LB88398
Matrix: Solid **Sample ID:** I3879-01MSDL **Client ID:** I16-005-MHMSDDL
Percent Solids for Sample: 90.6 **Duplicate ID** I3879-01MSDDL **Percent Solids for Spike Sample:** 90.6

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
TKN	mg/Kg	20	1050	D	1030	D	2		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB88398

SDG No.: LB88398

Contract:

Lab Code: CHEM

Case No.: LB88398

SAS No.: LB88398

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
PB100163BS TKN	mg/Kg	240	220		91.7	80 - 120	