

Daily Analysis Runlog For Sequence/QC Batch ID # LB92783

Review By	apatel		Review On	1/25/2018 9:55:07 AM		
SubDirectory	LB92783		Test :	Anions		
STD. NAME		STD REF.#				
ICAL Standard		WP60658,WP60659,WP60660,WP60661,WP60662,WP60663,WP60664				
ICV Standard		WP60665				
CCV Standard		WP61151				
ICSA Standard		N/A				
CRI Standard		N/A				
LCS Standard		WP61156				
Chk Standard		WP60666,WP60668				
Sr#	SampleID	ClientID	QcType	Date	Comment	Status
1	STD1	STD1	CAL1	01/15/18 10:28		OK
2	STD2	STD2	CAL2	01/15/18 10:58		OK
3	STD3	STD3	CAL3	01/15/18 11:33		OK
4	STD4	STD4	CAL4	01/15/18 12:04		OK
5	STD5	STD5	CAL5	01/15/18 12:35		OK
6	STD6	STD6	CAL6	01/15/18 13:06		OK
7	STD7	STD7	CAL7	01/15/18 13:37		OK
8	ICV1	ICV1	ICV	01/15/18 15:11		OK
9	ICB1	ICB1	ICB	01/15/18 15:46		OK
10	CCV1	CCV1	CCV	01/23/18 10:46		OK
11	CCB1	CCB1	CCB	01/23/18 11:26		OK
12	LB92783BLW	LB92783BLW	MB	01/23/18 11:57		OK
13	LB92783BSW	LB92783BSW	LCS	01/23/18 12:28		OK
14	J1252-01	STERIGENICS-TUS	SAM	01/23/18 13:18		OK
15	J1252-01DUP	STERIGENICS-TUS	DUP	01/23/18 13:49		OK
16	J1252-01MS	STERIGENICS-TUS	MS	01/23/18 14:20		OK
17	CCV2	CCV2	CCV	01/23/18 14:51		OK
18	CCB2	CCB2	CCB	01/23/18 15:22		OK



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

Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB92783	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	STERIGENICS-TUSTIN-WATER-SAMPLE-13NOV2017	SDG No.:	LB92783
Lab Sample ID:	J1252-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

Cas	Parameter	Conc.	Qua.	DF	MDL	LOD	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
	Bromide	0	U	1	0.066		0.5	mg/L		01/23/2018	300.0
	Chloride	1.2		1	0.075		0.15	mg/L		01/23/2018	300.0
	Fluoride	0	U	1	0.043		0.1	mg/L		01/23/2018	300.0
	Nitrate	0.19		1	0.027		0.13	mg/L		01/23/2018	300.0
	Nitrite	0.12	J	1	0.022		0.15	mg/L		01/23/2018	300.0
	Phosphorus, Ortho	0	U	1	0.01		0.25	mg/L		01/23/2018	300.0
	Sulfate	2.4		1	0.13		0.75	mg/L		01/23/2018	300.0



Report of Analysis

Client:		Date Collected:	11/13/2017 12:00:00 AM
Project:	LB92783	Date Received:	1/22/2018 12:00:00 AM
Client Sample ID:	STERIGENICS-TUSTIN-WATER-SAMPLE-13NOV2017	SDG No.:	LB92783
Lab Sample ID:	J1252-01	Matrix:	WATER
Level (low/med):	low	% Solid:	0

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: LB92783

SDG No.: LB92783

Contract: _____ Lab Code: CHEM

Case No.: LB92783

SAS No.: LB92783

Initial Calibration Source: _____

Continuing Calibration Source: _____

Sample ID	Analyte	Result mg/L	True Value	% Recovery	Qual	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV1	Bromide	9.4	10	94		90 - 110		01/15/2018	15:11	LB92783
	Chloride	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB92783
	Fluoride	1.9	2	95		90 - 110		01/15/2018	15:11	LB92783
	Phosphorus, Ortho	5	5	100		90 - 110		01/15/2018	15:11	LB92783
	Nitrite	2.8	3	93.3		90 - 110		01/15/2018	15:11	LB92783
	Nitrate	2.4	2.5	96		90 - 110		01/15/2018	15:11	LB92783
	Sulfate	14	15	93.3		90 - 110		01/15/2018	15:11	LB92783



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92783

SDG No.: LB92783

Contract: Lab Code: CHEM

Case No.: LB92783

SAS No.: LB92783

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
ICB1	Bromide	0.066	+/-0.5	U		0.5		01/15/2018	15:46	LB92783
	Chloride	0.075	+/-0.15	U		0.15		01/15/2018	15:46	LB92783
	Fluoride	0.043	+/-0.1	U		0.1		01/15/2018	15:46	LB92783
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/15/2018	15:46	LB92783
	Nitrite	0.022	+/-0.15	U		0.15		01/15/2018	15:46	LB92783
	Nitrate	0.027	+/-0.13	U		0.13		01/15/2018	15:46	LB92783
	Sulfate	0.13	+/-0.75	U		0.75		01/15/2018	15:46	LB92783



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92783

SDG No.: LB92783

Contract:

Lab Code: CHEM

Case No.: LB92783

SAS No.: LB92783

Sample ID	Analyte	Result mg/L	Acceptance Limit	Conc Qual	LOD	CRQL	M	Analysis Date	Analysis Time	Run Number
CCB1	Bromide	0.066	+/-0.5	U		0.5		01/23/2018	11:26	LB92783
	Chloride	0.075	+/-0.15	U		0.15		01/23/2018	11:26	LB92783
	Fluoride	0.043	+/-0.1	U		0.1		01/23/2018	11:26	LB92783
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/23/2018	11:26	LB92783
	Nitrite	0.022	+/-0.15	U		0.15		01/23/2018	11:26	LB92783
	Nitrate	0.027	+/-0.13	U		0.13		01/23/2018	11:26	LB92783
	Sulfate	0.13	+/-0.75	U		0.75		01/23/2018	11:26	LB92783
CCB2	Bromide	0.066	+/-0.5	U		0.5		01/23/2018	15:22	LB92783
	Chloride	0.075	+/-0.15	U		0.15		01/23/2018	15:22	LB92783
	Fluoride	0.043	+/-0.1	U		0.1		01/23/2018	15:22	LB92783
	Phosphorus, Ortho	0.01	+/-0.25	U		0.25		01/23/2018	15:22	LB92783
	Nitrite	0.022	+/-0.15	U		0.15		01/23/2018	15:22	LB92783
	Nitrate	0.027	+/-0.13	U		0.13		01/23/2018	15:22	LB92783
	Sulfate	0.13	+/-0.75	U		0.75		01/23/2018	15:22	LB92783



GENCHEM

- 3a -

INITIAL AND CONTINUING CALIBRATION BLANK SUMMARY

Client: LB92783

SDG No.: LB92783

Contract: Lab Code: CHEM

Case No.: LB92783

SAS No.: LB92783

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: LB92783

SDG No.: LB92783

Instrument: IC-2

Sample ID	Analyte	Result (mg/L)	Acceptance Limit	Conc Qual	LOD mg/L	CRQL mg/L	M	Analysis Date	Analysis Time	Run
LB92783BLW		WATER		Batch Number:				Prep Date:		
	Bromide	0.066	<0.5	U		0.5		01/23/2018	11:57	LB92783
	Chloride	0.075	<0.15	U		0.15		01/23/2018	11:57	LB92783
	Fluoride	0.043	<0.1	U		0.1		01/23/2018	11:57	LB92783
	Phosphorus, Ortho	0.01	<0.25	U		0.25		01/23/2018	11:57	LB92783
	Nitrite	0.022	<0.15	U		0.15		01/23/2018	11:57	LB92783
	Nitrate	0.027	<0.13	U		0.13		01/23/2018	11:57	LB92783
	Sulfate	0.13	<0.75	U		0.75		01/23/2018	11:57	LB92783



GENCHEM
- 5a -
MATRIX SPIKE SUMMARY

client: LB92783 level: low sdg no.: LB92783
contract: lab code: CHEM case no.: LB92783 sas no.: LB92783
matrix: WATER sample id: J1252-01 client id: STERIGENICS-TUSTIN-WATER-SAMPLE-13NC
Percent Solids for Sample: 0 Spiked ID: J1252-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	C	Sample Result	C	Spike Added	% Recovery	Qual	M
Bromide	mg/L	80 - 120	9.7		0.066	U	10	97		
Chloride	mg/L	80 - 120	4		1.2		3	93		
Fluoride	mg/L	80 - 120	2.1		0.043	U	2	105		
Phosphorus, Ortho	mg/L	80 - 120	6		0.01	U	5	120		
Nitrite	mg/L	80 - 120	2.9		0.12	J	3	93		
Nitrate	mg/L	80 - 120	2.5		0.19		2.5	92		
Sulfate	mg/L	80 - 120	16.9		2.4		15	97		

GENCHEM

- 6 -

DUPLICATE SAMPLE SUMMARY

Client: LB92783 **Level:** LOW **SDG No.:** LB92783
Contract: _____ **Lab Code:** CHEM **Case No.:** LB92783 **SAS No.:** LB92783
Matrix: WATER **Sample ID:** J1252-01 **Client ID:** STERIGENICS-TUSTIN-WATER-SAMPLE-13NC
Percent Solids for Sample: 0 **Duplicate ID** J1252-01DUP **Percent Solids for Spike Sample:** 0

Analyte	Units	Acceptance Limit	Sample Result	C	Duplicate Result	C	RPD	Qual	M
Bromide	mg/L	20	0.066	U	0	U			
Chloride	mg/L	20	1.2		1.2		0		
Fluoride	mg/L	20	0.043	U	0	U			
Phosphorus, Ortho	mg/L	20	0.01	U	0	U			
Nitrite	mg/L	20	0.12	J	0.12	J	0		
Nitrate	mg/L	20	0.19		0.19		0		
Sulfate	mg/L	20	2.4		2.4		0		



GENCHEM

- 7 -

LABORATORY CONTROL SAMPLE SUMMARY

Client: LB92783

SDG No.: LB92783

Contract: _____

Lab Code: CHEM

Case No.: LB92783

SAS No.: LB92783

Analyte	Units	True Value	Result	C	% Recovery	Acceptance Limits	M
LB92783BSW							
Bromide	mg/L	10	9.2		92	90 - 110	
Chloride	mg/L	3	2.8		93.3	90 - 110	
Fluoride	mg/L	2	1.9		95	90 - 110	
Phosphorus, Ortho	mg/L	5	4.8		96	90 - 110	
Nitrite	mg/L	3	2.8		93.3	90 - 110	
Nitrate	mg/L	2.5	2.3		92	90 - 110	
Sulfate	mg/L	15	13.7		91.3	90 - 110	
