Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside NJ 07092
Tel. 908-789-8900 Fax: 908-789-8922

DATA REPORTING QUALIFIERS- INORGANIC

For reporting results, the following " Results Qualifiers" are used:

J	Indicates the reported value was obtained from a reading that was less than the Contract Required Detection Limit (CRDL), but greater than or equal to the Instrument Detection Limit (IDL).
U	Indicates the analyte was analyzed for, but not detected.
ND	Indicates the analyte was analyzed for, but not detected
E	Indicates the reported value is estimated because of the presence of interference
M	Indicates Duplicate injection precision not met.
N	Indicates the spiked sample recovery is not within control limits.
S	Indicates the reported value was determined by the Method of Standard Addition (MSA).
*	Indicates that the duplicate analysis is not within control limits.
+	Indicates the correlation coefficient for the MSA is less than 0.995.
D	Indicates the reported value is from a secondary analysis with a dilution factor. The original analysis exceeded the calibration range.
M	Method qualifiers **"P"** for ICP instrument **"PM"** for ICP when Microwave Digestion is used **"CV"** for Manual Cold Vapor AA **"AV"** for automated Cold Vapor AA **"CA"** for MIDI-Distillation Spectrophotometric **"AS"** for Semi –Automated Spectrophotometric **"C"** for Manual Spectrophotometric **"T"** for Titrimetric **"NR"** for analyte not required to be analyzed
OR	Indicates the analyte's concentration exceeds the calibrated range of the instrument for that specific analysis.
Q	Indicates the LCS did not meet the control limits requirements
H	Sample Analysis Out Of Hold Time

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LAB CHRONICLE

OrderID:	P5350	**OrderDate:**	12/19/2024 11:07:53 AM
Client:	Summit Environmental Technologies, LLC	**Project:**	24121099
Contact:	Jennifer Woolf	**Location:**	N13

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
P5350-01	**24121099-001A**	**WATER**			**12/13/24 06:00**			**12/19/24**
			TOC	SM5310B			12/19/24 15:53	

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SAMPLE DATA

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Report of Analysis

Client:	Summit Environmental Technologies, LLC	Date Collected:	12/13/24 06:00
Project:	24121099	Date Received:	12/19/24
Client Sample ID:	24121099-001A	SDG No.:	P5350
Lab Sample ID:	P5350-01	Matrix:	WATER
		% Solid:	0

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
TOC	5220	D	400	76.0	400	mg/L		12/19/24 15:53	SM 5310 B-14

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
H = Sample Analysis Out Of Hold Time

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

QC RESULT SUMMARY

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Initial and Continuing Calibration Verification

Client: Summit Environmental Technologies, LLC **SDG No.:** P5350

Project: 24121099 **RunNo.:** LB134013

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
TOC		mg/L	10.2	10	102	90-110	09/25/2024
Sample ID:	**CCV1**						
TOC		mg/L	1	1	100	50-150	12/19/2024
Sample ID:	**CCV2**						
TOC		mg/L	10.7	10	107	90-110	12/19/2024

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Initial and Continuing Calibration Blank Summary

Client: Summit Environmental Technologies, LLC **SDG No.:** P5350

Project: 24121099 **RunNo.:** LB134013

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
TOC		mg/L	< 0.5000	0.5000	U	0.19	1	09/25/2024
Sample ID:	CCB1							
TOC		mg/L	0.25	0.5000	J	0.19	1	12/19/2024
Sample ID:	CCB2							
TOC		mg/L	0.34	0.5000	J	0.19	1	12/19/2024

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Preparation Blank Summary

Client: Summit Environmental Technologies, LLC **SDG No.:** P5350

Project: 24121099

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: LB134013BLW							
TOC	mg/L	0.27	0.5000	J	0.19	1	12/19/2024

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Matrix Spike Summary

Client: Summit Environmental Technologies, LLC
SDG No.: P5350
Project: 24121099
Sample ID: P5350-01
Client ID: 24121099-001AMS
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	85-115	5480		5220	D	10	400	2600	*	12/19/2024

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Matrix Spike Summary

Client: Summit Environmental Technologies, LLC
SDG No.: P5350
Project: 24121099
Sample ID: P5350-01
Client ID: 24121099-001AMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
TOC	mg/L	85-115	5140		5220	D	10	400	-800	*	12/19/2024

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Duplicate Sample Summary

Client: Summit Environmental Technologies, LLC
SDG No.: P5350
Project: 24121099
Sample ID: P5350-01
Client ID: 24121099-001AMSD
Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
TOC	mg/L	+/-15	5480		5140		400	6		12/19/2024

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Laboratory Control Sample Summary

Client:	Summit Environmental Technologies, LLC	**SDG No.:**	P5350
Project:	24121099	**Run No.:**	LB134013

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID **LB134013BSW**								
TOC	**mg/L**	**10**	**10.6**		**106**	**1**	**90-110**	**12/19/2024**

RAW DATA

Reviewed By:Iwona
On:12/23/2024 8:56:33 AM
Inst Id :Appolo-9000
LB :LB134013

Sample Results Report Print Date/Time: 2024/12/19 18:21:48

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
CCV1	1.0351	0.2805	27.10	TOC	
CCB1	0.2521	0.0229	9.07	TOC	
LB134013BLW	0.2702	0.0446	16.52	TOC	
LB134013BSW.....	10.6363...	0.1376..	1.29...	TOC	..
P5350-01X400	13.0419	0.0727	0.56	TOC	
P5350-01MSX400	13.7022	0.0742	0.54	TOC	
P5350-01MSDX400.....	12.8399...	0.1477..	1.15...	TOC	..
CCV2	10.7064	0.1926	1.80	TOC	
CCB2	0.3393	0.0850	25.06	TOC	

Sample Results Report Print Date/Time: 2024/12/19 18:21:48

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	Sample	10	2024/12/19 13:44	
TOC 0 - 20 ppmC	Sample	12	2024/12/19 14:07	Low Sample Detected
TOC 0 - 20 ppmC	Sample	13	2024/12/19 14:54	Low Sample Detected
TOC 0 - 20 ppmC	...Sample	.. 14..	2024/12/19 15:25	..
TOC 0 - 20 ppmC	Sample	15	2024/12/19 15:53	
TOC 0 - 20 ppmC	Sample	17	2024/12/19 16:53	
TOC 0 - 20 ppmC	...Sample	.. 17..	2024/12/19 17:25	..
TOC 0 - 20 ppmC	Sample	14	2024/12/19 17:56	
TOC 0 - 20 ppmC	Sample	13	2024/12/19 18:18	

Detailed Analysis Report Print Date/Time: 2024/12/19 18:22:11

Sample ID: CCV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 13:44
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	1.4468	0.7234	49115	-2.441	-2.242	148
2	0.9618	0.4809	32649	-2.370	-2.172	127
3	0.9102	0.4551	30900	-2.349	-2.152	125
4	0.8215	0.4108	27888	-2.334	-2.136	122

<<<Statistics>>> Mean: 1.0351 Std Dev: 0.2805 RSD: 27.10

Sample ID: CCB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 14:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2739	0.1369	9297	-2.545	-2.529	120
2	0.2323	0.1161	7885	-2.536	-2.519	120
3	0.2325	0.1162	7892	-2.532	-2.509	120
4	0.2699	0.1350	9163	-2.597	-2.397	95

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.2521 Std Dev: 0.0229 RSD: 9.07

Sample ID: LB134013BLW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 14:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.2687	0.1344	9122	-2.663	-2.620	120
2	0.2526	0.1263	8577	-2.670	-2.621	120
3	0.2274	0.1137	7720	-2.618	-2.603	120
4	0.3321	0.1660	11273	-2.648	-2.555	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.2702 Std Dev: 0.0446 RSD: 16.52

Sample ID: LB134013BSW Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 15:25
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.4519	5.2259	354811	-2.597	-2.398	233
2	10.6307	5.3154	360883	-2.623	-2.423	233
3	10.6831	5.3415	362659	-2.639	-2.441	231
4	10.7797	5.3898	365939	-2.647	-2.448	233

<<<Statistics>>> Mean: 10.6363 Std Dev: 0.1376 RSD: 1.29

Sample ID: P5350-01X400 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 15:53
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.0178	6.5089	441918	-2.569	-2.373	187
2	13.1401	6.5701	446069	-2.531	-2.333	189
3	12.9669	6.4835	440190	-2.484	-2.286	182
4	13.0429	6.5215	442770	-2.504	-2.304	184

<<<Statistics>>> Mean: 13.0419 Std Dev: 0.0727 RSD: 0.56

Sample ID: P5350-01MSX400 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 16:53
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	13.6939	6.8469	464867	-2.562	-2.364	231
2	13.7331	6.8665	466198	-2.575	-2.377	232
3	13.6036	6.8018	461803	-2.589	-2.391	236
4	13.7783	6.8892	467734	-2.558	-2.359	230

<<<Statistics>>> Mean: 13.7022 Std Dev: 0.0742 RSD: 0.54

Sample ID: P5350-01MSDX400 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 17:25
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	12.8218	6.4109	435263	-2.466	-2.267	238
2	12.9676	6.4838	440213	-2.419	-2.220	234
3	12.6389	6.3194	429054	-2.423	-2.224	229
4	12.9315	6.4657	438986	-2.474	-2.274	235

<<<Statistics>>> Mean: 12.8399 Std Dev: 0.1477 RSD: 1.15

Sample ID: CCV2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 17:56
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.9221	5.4611	370774	-2.500	-2.302	235
2	10.8033	5.4016	366740	-2.459	-2.259	230
3	10.6069	5.3035	360075	-2.404	-2.205	229
4	10.4933	5.2467	356218	-2.389	-2.193	225

<<<Statistics>>> Mean: 10.7064 Std Dev: 0.1926 RSD: 1.80

Sample ID: CCB2 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 12191320
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/12/19 18:18

Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.4188	0.2094	14216	-2.372	-2.174	102
2	0.3922	0.1961	13315	-2.347	-2.148	99
3	0.3169	0.1585	10758	-2.311	-2.111	98
4	0.2294	0.1147	7787	-2.278	-2.081	97

<<<Statistics>>> Mean: 0.3393 Std Dev: 0.0850 RSD: 25.06

Reviewed By:Iwona
On:12/23/2024 8:56:33 AM
Inst Id :Appolo-9000
LB :LB134013

Sample Results Report Print Date/Time: 2024/10/17 10:38:53

Sample ID	Result	Std. Dev.	RSD	Mode	ALT
0.0PPM	3350	1590	47.47	TOC	
0.5PPM	25944	1031	3.97	TOC	
1.0PPM	45348	1939	4.27	TOC	
2.0PPM.....	78757...	1236..	1.57...	TOC	..
5.0PPM	189582	6966	3.67	TOC	
10.0PPM	356566	4394	1.23	TOC	
20.0PPM.....	684846...	13524..	1.97...	TOC	..
ICV1	10.1602	0.1106	1.09	TOC	
ICB1	0.1685	0.0421	25.01	TOC	
IC-20.....	0.1694...	0.0547..	32.30...	TOC	..
IC-R	0.1653	0.0346	20.94	TOC	

Reviewed By:Iwona
On:12/23/2024 8:56:33 AM
Inst Id :Appolo-9000
LB :LB134013

Sample Results Report Print Date/Time: 2024/10/17 10:38:53

Method ID	Sample Type	Vial	Timestamp	Message
TOC 0 - 20 ppmC	TOC Standard	1	2024/09/25 11:13	Low Sample Detected
TOC 0 - 20 ppmC	TOC Standard	2	2024/09/25 12:02	
TOC 0 - 20 ppmC	TOC Standard	3	2024/09/25 12:52	
TOC 0 - 20 ppmC	...TOC Standard ..	4..	2024/09/25 13:18 ..	
TOC 0 - 20 ppmC	TOC Standard	5	2024/09/25 13:45	
TOC 0 - 20 ppmC	TOC Standard	6	2024/09/25 14:12	
TOC 0 - 20 ppmC	...TOC Standard ..	7..	2024/09/25 14:40 ..	
TOC 0 - 20 ppmC	Sample	14	2024/09/25 15:07	
TOC 0 - 20 ppmC	Sample	12	2024/09/25 15:31	Low Sample Detected
TOC 0 - 20 ppmC	...Sample ..	13..	2024/09/25 15:54 ..	Low Sample Detected
TOC 0 - 20 ppmC	Sample	8	2024/09/25 16:18	Low Sample Detected

Detailed Analysis Report Print Date/Time: 2024/09/27 10:57:10

Sample ID: 0.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 11:13
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			3916	-2.644	-2.613	120
2			5339	-2.654	-2.615	120
3			1929	-2.655	-2.674	120
4			2215	-2.660	-2.636	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 3350 Std Dev: 1590 RSD: 47.47

Sample ID: 0.5PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:02
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			25019	-2.849	-2.652	147
2			26723	-2.855	-2.656	150
3			25092	-2.861	-2.663	153
4			26944	-2.879	-2.682	148

<<<Statistics>>> Mean: 25944 Std Dev: 1031 RSD: 3.97

Sample ID: 1.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 12:52
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			44529	-2.979	-2.784	155
2			43245	-2.995	-2.795	152
3			47787	-3.003	-2.807	157
4			45829	-2.984	-2.785	153

<<<Statistics>>> Mean: 45348 Std Dev: 1939 RSD: 4.27

Sample ID: 2.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:18
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			77003	-3.022	-2.827	154
2			79901	-3.020	-2.821	158
3			79145	-2.986	-2.786	160
4			78978	-2.987	-2.787	156

<<<Statistics>>> Mean: 78757 Std Dev: 1236 RSD: 1.57

Reviewed By:Iwona
On:12/23/2024 8:56:33 AM
Inst Id :Appolo-9000
LB :LB134013

Sample ID: 5.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 13:45
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			198547	-3.011	-2.812	170
2			190541	-2.994	-2.797	163
3			187362	-2.998	-2.798	165
4			181877	-2.957	-2.758	165

<<<Statistics>>> Mean: 189582 Std Dev: 6966 RSD: 3.67

Sample ID: 10.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:12
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			353287	-3.003	-2.806	174
2			362185	-2.970	-2.770	171
3			357930	-2.931	-2.731	174
4			352861	-2.910	-2.711	169

<<<Statistics>>> Mean: 356566 Std Dev: 4394 RSD: 1.23

Sample ID: 20.0PPM Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 14:40
Operator ID: NF IZ Sample Type: TOC Standard

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1			665638	-2.929	-2.730	183
2			686130	-2.882	-2.683	191
3			690849	-2.884	-2.685	185
4			696765	-2.868	-2.670	184

<<<Statistics>>> Mean: 684846 Std Dev: 13524 RSD: 1.97

Sample ID: ICV1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:07
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	10.0524	5.0262	341249	-2.955	-2.756	169
2	10.1120	5.0560	343275	-2.928	-2.729	169
3	10.1652	5.0826	345080	-2.920	-2.725	171
4	10.3110	5.1555	350027	-2.903	-2.706	169

<<<Statistics>>> Mean: 10.1602 Std Dev: 0.1106 RSD: 1.09

Sample ID: ICB1 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:31
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1868	0.0934	6340	-3.005	-2.908	120
2	0.1290	0.0645	4379	-2.978	-2.916	120
3	0.2191	0.1096	7439	-2.995	-2.919	120
4	0.1390	0.0695	4718	-2.969	-2.868	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1685 Std Dev: 0.0421 RSD: 25.01

Sample ID: IC-20 Mode: TOC
Method: TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 15:54
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1108	0.0554	3761	-2.957	-2.925	120
2	0.1349	0.0675	4580	-2.975	-2.943	120
3	0.2197	0.1099	7459	-2.964	-2.878	120
4	0.2121	0.1061	7202	-2.937	-2.906	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1694 Std Dev: 0.0547 RSD: 32.30

Sample ID: IC-R Mode: TOC
Method:
TOC 0 - 20 ppmC Filename: 09251050
Cal. Curve: TOC WATER 0-20PPM Timestamp: 2024/09/25 16:18
Operator ID: NF IZ Sample Type: Sample

Rep #	ppm C	ug C	Raw Data	Beginning Baseline	Ending Baseline	Integration Time
1	0.1389	0.0694	4715	-2.914	-2.867	120
2	0.1870	0.0935	6348	-2.915	-2.867	120
3	0.2024	0.1012	6871	-2.908	-2.827	120
4	0.1329	0.0665	4512	-2.881	-2.840	120

Last Message: Low Sample Detected
<<<Statistics>>> Mean: 0.1653 Std Dev: 0.0346 RSD: 20.94

Calibration Report Print Date/Time: 2024/09/25 14:41:00

Cal. Curve ID: TOC WATER 0-20PPM
Created: 2024/09/25 14:40
Calibration Factor (m): 6.789e+04
Y Intercept (b): 11061
r-squared: 0.99944

Standard ID	Y Raw Data	X Expected ug C	Measured ug C	Message	Date & Time
0.0PPM	3350	0.000	-0.114	—	2024/09/25 11:13
0.5PPM	25944	0.250	0.219	-12.4	2024/09/25 12:02
1.0PPM	45348	0.500	0.505	1.0	2024/09/25 12:52
2.0PPM	78757	1.000	0.997	-0.3	2024/09/25 13:18
5.0PPM	189582	2.500	2.629	5.2	2024/09/25 13:45
10.0PPM	356566	5.000	5.089	1.8	2024/09/25 14:12
20.0PPM	684846	10.000	9.924	-0.8	2024/09/25 14:40

AC

12
9/25/24

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Fax : 908 789 8922

Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB134013

Review By	Niha	Review On	12/20/2024 3:37:32 PM
Supervise By	Iwona	Supervise On	12/23/2024 8:56:33 AM
SubDirectory	LB134013	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP109852,WP109853,WP109854,WP109855,WP109856,WP109857
ICV Standard	WP109859
CCV Standard	WP111161
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111162
Chk Standard	WP109953,WP109860,WP109865

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPM	0.0PPM	CAL1	09/25/24 11:13		NF IZ	OK
2	0.5PPM	0.5PPM	CAL2	09/25/24 12:02		NF IZ	OK
3	1.0PPM	1.0PPM	CAL3	09/25/24 12:52		NF IZ	OK
4	2.0PPM	2.0PPM	CAL4	09/25/24 13:18		NF IZ	OK
5	5.0PPM	5.0PPM	CAL5	09/25/24 13:45		NF IZ	OK
6	10.0PPM	10.0PPM	CAL6	09/25/24 14:12		NF IZ	OK
7	20.0PPM	20.0PPM	CAL7	09/25/24 14:40		NF IZ	OK
8	ICV1	ICV1	ICV	09/25/24 15:07		NF IZ	OK
9	ICB1	ICB1	ICB	09/25/24 15:31		NF IZ	OK
10	IC-20	IC-20	SAM	09/25/24 15:54		NF IZ	OK
11	IC-R	IC-R	SAM	09/25/24 16:18		NF IZ	OK
12	CCV1	CCV1	CCV	12/19/24 13:44		NF IZ	OK
13	CCB1	CCB1	CCB	12/19/24 14:07		NF IZ	OK
14	LB134013BLW	LB134013BLW	MB	12/19/24 14:54		NF IZ	OK
15	LB134013BSW	LB134013BSW	LCS	12/19/24 15:25		NF IZ	OK
16	P5350-01	24121099-001A	SAM	12/19/24 15:53		NF IZ	OK
17	P5350-01MS	24121099-001AMS	MS	12/19/24 16:53	2.0ml WP111159 +38.0ml Sample	NF IZ	OK
18	P5350-01MSD	24121099-001AMSD	MSD	12/19/24 17:25	2.0ml WP111159 +38.0ml Sample	NF IZ	OK

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Instrument ID: TOC

Daily Analysis Runlog For Sequence/QCBatch ID # LB134013

Review By	Niha	Review On	12/20/2024 3:37:32 PM
Supervise By	Iwona	Supervise On	12/23/2024 8:56:33 AM
SubDirectory	LB134013	Test	TOC

STD. NAME	STD REF.#
ICAL Standard	WP109852,WP109853,WP109854,WP109855,WP109856,WP109857
ICV Standard	WP109859
CCV Standard	WP111161
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP111162
Chk Standard	WP109953,WP109860,WP109865

19	CCV2	CCV2	CCV	12/19/24 17:56		NF IZ	OK
20	CCB2	CCB2	CCB	12/19/24 18:18		NF IZ	OK

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Prep Standard - Chemical Standard Summary

Order ID : P5350

Test : TOC

Prepbatch ID :

Sequence ID/Qc Batch ID: LB134013,

Standard ID :
WP108534,WP109217,WP109218,WP109850,WP109851,WP109852,WP109853,WP109854,WP109855,WP109856,WP109857,WP109859,WP109860,WP109861,WP109862,WP109863,WP109864,WP109865,WP109953,WP 111159,WP111160,WP111161,WP111162,

Chemical ID :
M5501,M6041,W1993,W2606,W2647,W2784,W2800,W2860,W2862,W3016,W3017,W3018,W3020,W3022,W 3111,W3112,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3886	Inorganic carbon stock solution, 1000ppm	WP108534	06/24/2024	10/24/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 06/26/2024

FROM 3.49700gram of W2647 + 4.41220gram of W2862 + 993.00000ml of W2606 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2050	TOC STOCK STD, 4000PPM	WP109217	08/07/2024	01/18/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 08/16/2024

FROM 5.00000ml of W2860 + 8.51200gram of W3111 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2051	TOC STOCK STD-SS, 4000PPM	WP109218	08/07/2024	02/07/2025	Iwona Zarych	WETCHEM_SCALE_5 (WCSC-5)	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 08/16/2024

FROM 5.00000ml of W2860 + 8.51200gram of W2784 + 990.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3888	TOC Water Intermediate std-200ppm	WP109850	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3889	TOC Water Intermediate std SS-200ppm	WP109851	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
304	TOC CAL 0.00ppm	WP109852	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 100.00000ml of W3112 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
305	TOC CAL 0.5ppm	WP109853	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.75000ml of W3112 + 0.25000ml of WP109850 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
306	TOC CAL 1.0PPM	WP109854	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.50000ml of W3112 + 0.50000ml of WP109850 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
307	TOC CAL 2.0PPM	WP109855	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 99.00000ml of W3112 + 1.00000ml of WP109850 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
308	TOC CAL 5.0PPM	WP109856	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 97.50000ml of W3112 + 2.50000ml of WP109850 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
310	TOC CAL 20.0PPM	WP109857	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 90.00000ml of W3112 + 10.00000ml of WP109850 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1650	TOC ICV/LCS STD. 10PPM	WP109859	09/24/2024	10/01/2024	Niha Farheen Shaik	None	None	Mohan Bera 09/24/2024

FROM 190.00000ml of W3112 + 10.00000ml of WP109851 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3887	Inorganic carbon solution, 20ppm	WP109860	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 49.00000ml of W3112 + 1.00000ml of WP108534 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4003	Solution A	WP109861	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 1000.00000ml of W3112 + 2.56500gram of W3018 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4004	Solution B	WP109862	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.24800gram of W3020 + 0.28100gram of M5501 + 0.28300gram of W2800 + 0.59400gram of W1993 + 1000.00000ml of W3112 + 2.05000gram of W3017 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4005	Solution C	WP109863	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 0.70500gram of W3016 + 1000.00000ml of W3112 + 2.80600gram of W2647 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4006	Solution D	WP109864	09/24/2024	10/01/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Mohan Bera 09/24/2024

FROM 1.86200gram of W3022 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4007	IC-removal check solution	WP109865	09/24/2024	10/01/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Mohan Bera 09/24/2024

FROM 0.04000ml of M6041 + 10.00000ml of WP109861 + 10.00000ml of WP109862 + 10.00000ml of WP109863 + 10.00000ml of WP109864 = Final Quantity: 40.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
613	Phosphoric acid reagent	WP109953	09/25/2024	03/25/2025	Niha Farheen Shaik	None	None	Iwona Zarych 09/27/2024

FROM 150.00000ml of W3112 + 50.00000ml of W2860 = Final Quantity: 200.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3888	TOC Water Intermediate std-200ppm	WP111159	12/19/2024	12/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 12/20/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109217 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3889	TOC Water Intermediate std SS-200ppm	WP111160	12/19/2024	12/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 12/20/2024

FROM 95.00000ml of W3112 + 5.00000ml of WP109218 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3331	TOC CAL-CCV std, 10PPM	WP111161	12/19/2024	12/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 12/20/2024

FROM 190.00000ml of W3112 + 10.00000ml of WP111159 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1650	TOC ICV/LCS STD. 10PPM	WP111162	12/19/2024	12/26/2024	Niha Farheen Shaik	None	None	Iwona Zarych 12/20/2024

FROM 190.00000ml of W3112 + 10.00000ml of WP111160 = Final Quantity: 200.000 ml

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0660-1 / AMMONIUM CHLORIDE, ACS, 500G	XE09B	04/08/2025	04/08/2015 / apatel	04/08/2015 / apatel	W1993

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	10/24/2024	10/24/2019 / apatel	10/24/2019 / apatel	W2606

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3506-5 / SODIUM BICARBONATE, PWD, ACS, 2.5KG	0000240594	06/03/2026	02/24/2020 / AMANDEEP	01/20/2020 / apatel	W2647

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	201089	06/30/2025	12/23/2020 / apatel	12/16/2020 / apatel	W2784

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3040-1 / POTASSIUM CHLORIDE, CRYS, ACS, 500G	198947	09/30/2025	03/08/2021 / apatel	03/08/2021 / apatel	W2800

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J0260-3 / Phosphoric Acid, 2.5 L	0000278313	01/31/2026	07/12/2021 / apatel	07/12/2021 / apatel	W2860

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	20A225205	07/13/2026	07/19/2023 / Al-Terek	07/13/2021 / apatel	W2862

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	S9390-100G / Sodium phosphate dibasic heptahydrate	SLCP6576	11/30/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3016

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	C7902-500G / Calcium chloride dihydrate - 500G	SLCP4280	08/31/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3017

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J2500-1 / MAGNESIUM SULFATE 7-HYDRATE CRYSTALS 500G	SLCN3621	12/31/2024	04/03/2023 / Iwona	04/03/2023 / Iwona	W3018

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Thermo Fisher Scientific	012364.36 / Calcium nitrate tetrahydrate, ACS, 99.0-103.0%	MKCS4612	09/30/2025	04/03/2023 / Iwona	04/03/2023 / Iwona	W3020

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	S4392-250G / Sodium metasilicate nonahydrate	SLCM8472	03/31/2025	04/05/2023 / Iwona	04/05/2023 / Iwona	W3022

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	P243-500 / Potassium Hydrogen Phthalate, 500 gms	24A1956910	01/18/2025	06/26/2024 / Iwona	06/26/2024 / Iwona	W3111

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

Certificate of Analysis

Date of Release: ***5/12/2014***

Product: ***Ammonium Chloride GR ACS*** ***Catalog No.:*** ***AX1270 all size codes***

Grade: ***Meets ACS Specifications*** ***CAS #:*** ***12125-02-9***

Country of Origin: ***India*** ***FW:*** ***53.49***

Lot No.: ***XE09B*** ClH_4N

Characteristic	Requirement Minimum	Maximum	Results	UOM
Assay (argentometric)	99.5		99.8	%
Calcium (Ca)		0.001	0.0001	%
Form	White crystals		White crystals	
Heavy metals (as Pb)		5	5	ppm
Identification	To pass test		Passes	
Insoluble matter		0.005	0.002	%
Iron (Fe)		2	2	ppm
Loss on drying (105 C)		0.5	0.22	%
Magnesium (Mg)		5	0.7	ppm
pH of a 5% solution at 25 C	4.5	5.5	4.95	
Phosphate (PO4)		2	2	ppm
Residue after ignition		0.01	0.002	%
Sulfate (SO4)		0.002	0.002	%

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without a signature.

EMD Millipore Corporation
290 Concord Road
Billerica, MA 01821

Sodium Bicarbonate, Powder
BAKER ANALYZED® A.C.S. Reagent

(sodium hydrogen carbonate)

Material No.: 3506-05
Batch No.: 0000240594
Manufactured Date: 2019/06/05
Retest Date: 2026/06/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaHCO_3$) (dried basis)	99.7 - 100.3 %	100.1
Insoluble Matter	<= 0.015 %	< 0.002
Chloride (Cl)	<= 0.003 %	0.003
Phosphate (PO_4)	<= 0.001 %	0.001
Sulfur Compounds (as SO_4)	<= 0.003 %	0.003
Calcium (Ca)	<= 0.02 %	0.02
Trace Impurities - Iron (Fe)	<= 0.001 %	0.001
Magnesium (Mg)	<= 0.005 %	0.005
Potassium (K)	<= 0.005 %	0.005
Ammonium (NH_4)	<= 5 ppm	5
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	5

For Laboratory, Research or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Paris Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Phosphoric Acid
BAKER ANALYZED® A.C.S. Reagent

(orthophosphoric acid)

Material No.: 0260-03
Batch No.: 0000278313
Manufactured Date: 2021/02/01
Retest Date: 2026/01/31
Revision No: 2

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (H_3PO_4) (by acidimetry)	85.0 - 87.0 %	85.8
Calcium (Ca)	<= 0.002 %	< 0.001
Color (APHA)	<= 10	5
Insoluble Matter	<= 0.001 %	< 0.001
ACS - Magnesium (Mg)	<= 0.002 %	<0.002
Sulfate (SO_4)	<= 12 ppm	< 4
Volatile Acids (as CH_3COOH)	<= 0.001 %	0.001
Reducing Substances	Passes Test	PT
Chloride (Cl)	<= 3 ppm	< 1
Nitrate (NO_3)	<= 5 ppm	< 2
Trace Impurities - Antimony (Sb)	<= 20.000 ppm	0.007
Trace Impurities - Arsenic (As)	<= 0.500 ppm	< 0.001
Trace Impurities - Iron (Fe)	<= 10.000 ppm	< 1.000
Heavy Metals (as Pb)	<= 8 ppm	< 3
Trace Impurities - Manganese (Mn)	<= 0.500 ppm	0.005
Trace Impurities - Potassium (K)	<= 40.000 ppm	< 0.001
Trace Impurities - Sodium (Na)	<= 200.000 ppm	0.082

For Laboratory, Research or Manufacturing Use
Exceeds A.C.S. Specifications
Meets Reagent Specifications for testing USP/NF monographs

Country of Origin: US
Packaging Site: Phillipsburg Mfg Ctr & DC

Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Sigma-Aldrich.

W3016
Rec 04/03/23 12

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium phosphate dibasic heptahydrate - ACS reagent, 98.0-102.0%

$Na_2HPO_4 \cdot 7H_2O$

Product Number:	**S9390**
Batch Number:	**SLCP6576**
Brand:	SIGALD
CAS Number:	7782-85-6
MDL Number:	MFCD00149180
Formula:	HNa2O4P · 7H2O
Formula Weight:	268.07 g/mol
Quality Release Date:	02 NOV 2022
Recommended Retest Date:	NOV 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Assay	98.0 - 102.0 %	99.8 %
Insoluble Matter	≤ 0.005 %	0.003 %
Chloride (Cl) < or = 0.001%	Pass	Pass
Sulfate < or = 0.005%	Pass	Pass
Iron (Fe) < or = 0.001%	Pass	Pass
Heavy Metals by ICP	< = 0.001%	< 0.001%
pH of 5% solution at 25 deg C	8.7 - 9.3	9.2
Note ACS Tests	_____	_____

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich

W3017
Rec 4/3/23 12

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Calcium chloride dihydrate - BioReagent, suitable for cell culture, suitable for insect cell culture, suitable for plant cell culture, ≥99.0%

$CaCl_2 \cdot 2H_2O$

Product Number:	**C7902**
Batch Number:	**SLCP4280**
Brand:	SIGMA
CAS Number:	10035-04-8
MDL Number:	MFCD00149613
Formula:	CaCl2 · 2H2O
Formula Weight:	147.01 g/mol
Quality Release Date:	14 NOV 2022
Recommended Retest Date:	AUG 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 294 mg/mL, H2O	Clear	Clear
Titration with EDTA	99.0 - 105.0 %	103.3 %
Cell Culture Test	Pass	Pass
Insect Cell Test	Pass	Pass
Plant Cell Culture Test	Pass	Pass

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich

W3018
Rec. 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Magnesium sulfate heptahydrate - ReagentPlus®, ≥99.0%

Product Number:	**M1880**
Batch Number:	**SLCN3621**
Brand:	SIGALD
CAS Number:	10034-99-8
MDL Number:	MFCD00149785
Formula:	MgO4S · 7H2O
Formula Weight:	246.47 g/mol
Quality Release Date:	04 MAY 2022
Recommended Retest Date:	DEC 2024

$MgSO_4 \cdot 7H_2O$

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 100 mg/mL, H2O	Clear	Clear
Titration with EDTA	≥ 99.0 %	100.6 %

Brian Dulle

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

Sigma-Aldrich.

W 3020
Rec. 4/3/23
12

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Calcium nitrate tetrahydrate - ACS reagent, 99%

$Ca(NO_3)_2 \cdot 4H_2O$

Product Number:	**237124**
Batch Number:	**MKCS4612**
Brand:	SIGALD
CAS Number:	13477-34-4
MDL Number:	MFCD00149604
Formula:	CaN2O6 · 4H2O
Formula Weight:	236.15 g/mol
Quality Release Date:	27 FEB 2023
Recommended Retest Date:	SEP 2025

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form) Granular Powder or Crystals or Flakes	Conforms to Requirements	Crystals
Complexometric EDTA	99.0 - 103.0 %	99.6 %
X-Ray Diffraction	Conforms to Structure	Conforms
pH c = 5%, Water, 25 Deg C	5.0 - 7.0	5.4
Insoluble Matter c = 10%, Water	≤ 0.005 %	< 0.001 %
Chloride Content	≤ 0.005 %	< 0.005 %
Nitrite (NO2)	≤ 0.001 %	< 0.001 %
Sulfate (SO4)	≤ 0.002 %	< 0.002 %
Barium	≤ 0.005 %	< 0.001 %
Heavy Metals by ICP-OES	≤ 5.0 ppm	< 1.0 ppm
Iron (Fe)	≤ 5.0 ppm	< 1.0 ppm
Magnesium (Mg)	≤ 0.05 %	< 0.01 %
Potassium (K)	≤ 0.005 %	< 0.001 %
Sodium (Na)	≤ 0.01 %	< 0.01 %
Strontium (Sr)	≤ 0.05 %	< 0.01 %
Meets ACS Requirements	Current ACS Specification	Conforms

W3020

Sigma-Aldrich.

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Number: 237124
Batch Number: MKCS4612

Test	Specification	Result
Recommended Retest Period 3 Years	_____	_____

Larry Coers, Director
Quality Control
Milwaukee, WI US

Sigma-Aldrich.

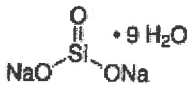
W 3022
Rec. 4/5/23 12

3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:
Sodium metasilicate nonahydrate - ≥98%

Product Number:	**S4392**
Batch Number:	**SLCM8472**
Brand:	ALDRICH
CAS Number:	13517-24-3
MDL Number:	MFCD00149175
Formula:	Na2O3Si · 9H2O
Formula Weight:	284.20 g/mol
Quality Release Date:	14 MAR 2022
Recommended Retest Date:	MAR 2025



Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity) 50 mg/ml, H2O	Clear	Clear
Titration with HCl	≥ 98 %	100 %

Brian Dulle, Supervisor
Quality Assurance
St. Louis, Missouri US

W2862
AP : 07/13/21

Certificate of Analysis

Date of Release: 10/24/2019

Name: Sodium carbonate anhydrous

Grade: Meets ACS Specifications. Meets Reagent Specifications for testing USP/NF monographs.

Item No: SX0395-3

Lot No.: 20A225205

Country of Origin: USA

Characteristic	Requirement	Results
Assay (calculated on dried substance)	Min. 99.5 %	100.1 %
Color	White	White
Form	Powder	Powder
Heavy metals (ICP-OES)	Max. 5 ppm	< 5 ppm
Insoluble matter	Max. 0.01 %	< 0.01 %
Loss on heating (285°C)	Max. 1.0 %	< 1.0 %
Sulphur compounds (as SO4)	Max. 0.003 %	< 0.003 %
Cl (Chloride)	Max. 0.001 %	< 0.001 %
PO4 (Phosphate)	Max. 0.001 %	< 0.001 %
SiO2 (Silica)	Max. 0.005 %	< 0.005 %
Ca (Calcium)	Max. 0.03 %	0.005 %
Fe (Iron)	Max. 5 ppm	< 5 ppm
K (Potassium)	Max. 0.005 %	< 0.005 %
Mg (Magnesium)	Max. 0.005 %	< 0.005 %

Joe Schoellkopff

Quality Control Manager

This document has been produced electronically and is valid without signature.

EMD Millipore is a division of Merck KGaA, Darmstadt, Germany

EMD Millipore Corporation
400 Summit Drive
Burlington, MA 01803
U.S.A.

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P217	Quality Test / Release Date	09/03/2020
Lot Number	198947		
Description	POTASSIUM CHLORIDE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Sep/2025
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	White crystals
ASSAY	%	Inclusive Between 99.0 - 100.5	99.7
BARIUM (Ba)	PASS/FAIL	= P.T. (ABOUT 0.001%)	P.T. (ABOUT 0.001%)
BROMIDE	%	<= 0.01	<0.01
CALCIUM	%	<= 0.002	<0.002
CHLORATE & NITRATE	%	<= 0.003	<0.001
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IODIDE	%	<= 0.002	<0.002
IRON (Fe)	ppm	<= 2	<1
MAGNESIUM	%	<= 0.001	<0.0005
PH 5% SOLUTION @ 25 DEG C		Inclusive Between 5.4 - 8.6	6.0
PHOSPHATE (PO4)	ppm	<= 5	<5
SODIUM (Na)	%	<= 0.005	<0.005
SULFATE (SO4)	%	<= 0.001	<0.001

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

ThermoFisher SCIENTIFIC

Certificate of Analysis

1 Reagent Lane
Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120632

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	P243	Quality Test / Release Date	06/19/2020
Lot Number	201089		
Description	POTASSIUM HYDROGEN PHTHALATE,ACIDIMETRIC STANDARD, A.C.S.		
Country of Origin	Spain	Suggested Retest Date	Jun/2025
Chemical Origin	Organic - non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	WHITE CRYSTALS
ASSAY POTASSIUM HYDROGEN PHTHALATE	%	Inclusive Between 99.95 - 100.05	100.03
CHLORINE COMPOUNDS	%	<= 0.003	<0.003
HEAVY METALS (as Pb)	ppm	<= 5	<5
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
INSOLUBLE MATTER	%	<= 0.005	<0.005
IRON (Fe)	ppm	<= 5	<5
PH OF 0.05M SOLUTION		Inclusive Between 4.00 - 4.02	4.00
SODIUM (Na)	%	<= 0.005	<0.005
SULFUR COMPOUNDS	%	<= 0.002	<0.002%
TRACEABLE TO NIST	SOD CARBONATE	= LOT 351a	351a
TRACEABLE TO NIST KHP STD	POT. ACID PHTHALATE	= LOT 84L	84L

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.
If there are any questions with this certificate, please call at (800) 227-6701.
*Based on suggested storage condition.

Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent

M5497 – M5508
Rec'd on 4/14/23
[illegible]

avantor™ | J.T.Baker®

Material No.: 3624-01
Batch No.: 0000281938
Manufactured Date: 2021-06-07
Retest Date: 2026-06-07
Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
Iodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO_3)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO_4)	≤ 5 ppm	< 5 ppm
Sulfate (SO_4)	≤ 0.004 %	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 0.005 %	0.001 %

For Laboratory,Research,or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
Packaging Site: Paris Mfg Ctr & DC

James T Ethier
Jamie Ethier
Vice President Global Quality

For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

M 6041-46
MS

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010
Manufactured Date: 2023-03-22
Retest Date: 2028-03-20
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (H_2SO_4)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO2)	≤ 2 ppm	< 2 ppm
Ammonium (NH_4)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO_3)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO_4)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

Sulfuric Acid
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis
Low Selenium

avantor™ | J.T.Baker®

Material No.: 9673-33
Batch No.: 23D2462010

Test	Specification	Result
Trace Impurities - Sodium (Na)	≤ 500.0 ppb	5.4 ppb
Trace Impurities - Strontium (Sr)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.8 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.4 ppb

For Laboratory,Research,or Manufacturing Use

Country of Origin: USA
Packaging Site: Phillipsburg Mfg Ctr & DC

James T Ethier

Jamie Ethier
Vice President Global Quality

Certificate of Analysis

POTASSIUM HYDROGEN PHTHALATE

Material: **N983**

Grade: **ACS GRADE**

Batch Number: **24A1956910**

Chemical Formula: HOOCC6H4COOK
Molecular Weight: 204.22
CAS #: 877-24-7
Appearance:

White crystals.

Manufacture Date: 01/19/2022
Reassay Date: 01/18/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Assay (dried basis)	99.95 - 100.05 %	99.97 %	PASS
Chlorine Compounds	<= 0.003 %	<0.003 %	PASS
Heavy Metals (as Pb)	<= 5 ppm	<5 ppm	PASS
Insoluble Matter	<= 0.005 %	0.003 %	PASS
Iron	<= 5 ppm	<5 ppm	PASS
pH (0.05M, Water) @25C	4.00 - 4.02	4.00	PASS
Sodium	<= 0.005 %	<0.005 %	PASS
Sulfur Compounds	<= 0.002 %	<0.002 %	PASS

Spec Set: N983ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

This document has been electronically produced and is valid without a signature.

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

Analysis may have been rounded to significant digits in specification limits.

Product meets analytical specifications of the grades listed.

SHIPPING DOCUMENTS

P5350

SUMMIT ENVIRONMENTAL TECHNOLOGIES, INC.
Analytical Laboratories

CHAIN OF CUSTODY RECORD

Omega COCID

PAGE: 1 1

ADDRESS
Summit Environmental Technologies, Inc.
3310 Win St.
Cuyahoga Falls, Ohio 44223
FAX: (330) 253-4489
Website: http://www.sett-k.com

SUB CONTRATOR: Alliance Technical Group
COMPANY: Alliance Technical Group
ADDRESS: 284 Sheffield Street
CITY, STATE, ZIP: Mountainside, NJ 07092
PHONE:FAX: (908) 789-8900
EMAIL:
ACCOUNT #:

SPECIAL INSTRUCTIONS / COMMENTS:
Please report to jwoolf@settek.com PO#24121099

ANALYTICAL PARAMETERS

ITEM #	SAMPLE ID	Client Sample ID	Bottle Type	MATRIX	DATE COLLECTED	Containers	TOC	COMMENTS
1	24121099-001A	6900 G Waste Tank	Glass 1 Liter	Sludge	12/13/24 06:00	1	X	
2								
3								
4								

COMMENTS
Methanol Preserved Weights
HOT Sample Notation etc.
Additional Sample Description,

Relinquished By:	Date:	Time:	Received By:	Date:Time:
Anthony Britton	12/18/24	17:40		
Relinquished By:	Date:	Time:	Received By:	Date:Time:
		9:44		9:44 12-19-24
Relinquished By:	Date:	Time:	Received By:	Date:Time:

TAT: Standard ☐ RUSH Next BD ☒ 2nd BD ☐ 3rd BD ☐

Note: RUSH requests will incur surcharges!

REPORT TRANSMITTAL DESIRED:
HARDCOPY (extra cost) | FAX | EMAIL | ONLINE

FOR LAB USE ONLY
Temp of samples 2.1 °C Attempt to Cool ?
Comments:

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

Laboratory Certification

Certified By	License No.
CAS EPA CLP Contract	68HERH20D0011
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255424 Rev 1
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	T104704488