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:	Q3790	**OrderDate:**	12/5/2025 10:01:00 AM
Client:	Tully Construction Co., Inc.	**Project:**	MTA 26 Stations - Pierrepont
Contact:	Dean Devoe	**Location:**	D31,VOA Lab

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3790-02	**304 FURMAN SOIL**	**SOIL**			**12/05/25 07:25**			**12/05/25**
			Corrosivity	9045D			12/08/25 12:22	
			Ignitability	1030			12/08/25 09:40	
			Reactive Cyanide	9012B		12/08/25	12/08/25 11:21	
			Reactive Sulfide	9034		12/09/25	12/09/25 13:05	

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SAMPLE DATA

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Report of Analysis

Client:	Tully Construction Co., Inc.	Date Collected:	12/05/25 07:25
Project:	MTA 26 Stations - Pierrepont	Date Received:	12/05/25
Client Sample ID:	304 FURMAN SOIL	SDG No.:	Q3790
Lab Sample ID:	Q3790-02	Matrix:	SOIL
		% Solid:	100

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Corrosivity	7.95	H	1	0	0	pH		12/08/25 12:22	9045D
Ignitability	NO		1	0	0	oC		12/08/25 09:40	1030
Reactive Cyanide	0.0084	U	1	0.0084	0.050	mg/Kg	12/08/25 08:50	12/08/25 11:21	9012B
Reactive Sulfide	3.19	J	1	0.20	10.0	mg/Kg	12/09/25 09:15	12/09/25 13:05	9034

Comments: pH result reported at temperature 20.8 °C

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: Tully Construction Co., Inc. **SDG No.:** Q3790

Project: MTA 26 Stations - Pierrepont **RunNo.:** LB138145

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV1						
Reactive Cyanide	mg/L	0.097	0.099	98	85-115	12/08/2025
Sample ID: CCV1						
Reactive Cyanide	mg/L	0.24	0.25	96	90-110	12/08/2025
Sample ID: CCV2						
Reactive Cyanide	mg/L	0.25	0.25	100	90-110	12/08/2025

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Initial and Continuing Calibration Verification

Client: Tully Construction Co., Inc. **SDG No.:** Q3790

Project: MTA 26 Stations - Pierrepont **RunNo.:** LB138148

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	ICV						
Corrosivity		pH	7.01	7	100	90-110	12/08/2025
Sample ID:	CCV1						
Corrosivity		pH	2.02	2.00	101	90-110	12/08/2025
Sample ID:	CCV2						
Corrosivity		pH	12.02	12.00	100	90-110	12/08/2025

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Initial and Continuing Calibration Blank Summary

Client: Tully Construction Co., Inc. **SDG No.:** Q3790

Project: MTA 26 Stations - Pierrepont **RunNo.:** LB138145

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	12/08/2025
Sample ID: CCB1							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	12/08/2025
Sample ID: CCB2							
Reactive Cyanide	mg/L	< 0.0025	0.0025	U	0.00096	0.005	12/08/2025

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Preparation Blank Summary

Client: Tully Construction Co., Inc. **SDG No.:** Q3790

Project: MTA 26 Stations - Pierrepont

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB170846BL							
Reactive Cyanide	mg/Kg	< 0.0250	0.0250	U	0.0084	0.05	12/08/2025
Sample ID: PB170869BL							
Reactive Sulfide	mg/Kg	< 5.0000	5.0000	U	0.201	10	12/09/2025

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Duplicate Sample Summary

Client: Tully Construction Co., Inc.
SDG No.: Q3790
Project: MTA 26 Stations - Pierrepont
Sample ID: Q3758-02
Client ID: 3462DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Cyanide	mg/Kg	+/-20	0.0083	U	0.0083	U	1	0		12/08/2025

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Duplicate Sample Summary

Client: Tully Construction Co., Inc.
SDG No.: Q3790
Project: MTA 26 Stations - Pierrepont
Sample ID: Q3790-02
Client ID: 304 FURMAN SOILDUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		12/08/2025

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Duplicate Sample Summary

Client: Tully Construction Co., Inc.
SDG No.: Q3790
Project: MTA 26 Stations - Pierrepont
Sample ID: Q3795-08
Client ID: RBR-200059DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Corrosivity	pH	+/-20	7.50		7.51		1	0.13		12/08/2025

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Duplicate Sample Summary

Client: Tully Construction Co., Inc.
SDG No.: Q3790
Project: MTA 26 Stations - Pierrepont
Sample ID: Q3805-02
Client ID: 91725DUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Ignitability	oC	+/-20	NO		NO		1	0		12/08/2025

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Duplicate Sample Summary

Client: Tully Construction Co., Inc.
SDG No.: Q3790
Project: MTA 26 Stations - Pierrepont
Sample ID: Q3815-02
Client ID: REDUP
Percent Solids for Spike Sample: 100

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Reactive Sulfide	mg/Kg	+/-20	1.58	J	1.58	J	1	0		12/09/2025

RAW DATA

Reviewed By:Iwona
On:12/8/2025 1:02:39 PM
Inst Id :FLAME
LB :LB138140

Analytical Summary Report

Analysis Method: 1030 **Reviewed By:** Eman

Parameter: Ignitability **Supervisor Review By:** Iwona

Run Number: LB138140

Seq	LabID	ClientID	DF	matrix	Result Status	Burning Rate	Anal Date	Anal Time
1	Q3790-02	304 FURMAN SOIL	1	Solid	NO	0.00	12/08/2025	09:40
2	Q3790-02DUP	304 FURMAN SOILDUP	1	Solid	NO	0.00	12/08/2025	09:47
3	Q3795-01	72-11966	1	Solid	NO	0.00	12/08/2025	09:54
4	Q3795-04	72-11966	1	Solid	NO	0.00	12/08/2025	10:02
5	Q3795-05	RBR 200059	1	Solid	NO	0.00	12/08/2025	10:10
6	Q3795-08	RBR-200059	1	Solid	NO	0.00	12/08/2025	10:17
7	Q3803-01	CHASE-A	1	Solid	NO	0.00	12/08/2025	10:25
8	Q3803-02	CHASE-B	1	Solid	NO	0.00	12/08/2025	10:32
9	Q3803-03	CHASE-C	1	Solid	NO	0.00	12/08/2025	10:40
10	Q3803-04	CHASE-D	1	Solid	NO	0.00	12/08/2025	10:47
11	Q3803-05	CHASE-E	1	Solid	NO	0.00	12/08/2025	10:55
12	Q3803-06	CHASE-F	1	Solid	NO	0.00	12/08/2025	11:02
13	Q3803-07	CHASE-G	1	Solid	NO	0.00	12/08/2025	11:10
14	Q3803-08	CHASE-H	1	Solid	NO	0.00	12/08/2025	11:17
15	Q3803-09	CHASE-I	1	Solid	NO	0.00	12/08/2025	11:25
16	Q3803-10	CHASE-J	1	Solid	NO	0.00	12/08/2025	11:32
17	Q3803-11	CHASE-K	1	Solid	NO	0.00	12/08/2025	11:40
18	Q3803-12	CHASE-L	1	Solid	NO	0.00	12/08/2025	11:47
19	Q3803-13	CHASE-M	1	Solid	NO	0.00	12/08/2025	11:55
20	Q3803-14	CHASE-N	1	Solid	NO	0.00	12/08/2025	12:02
21	Q3804-01	120325-A	1	Solid	NO	0.00	12/08/2025	12:10
22	Q3804-03	120325-B	1	Solid	NO	0.00	12/08/2025	12:17
23	Q3804-04	120325-C	1	Solid	NO	0.00	12/08/2025	12:25
24	Q3805-02	91725	1	Solid	NO	0.00	12/08/2025	12:32
25	Q3805-02DUP	91725DUP	1	Solid	NO	0.00	12/08/2025	12:39

$$\text{Burning Rate} = \frac{\text{Length(mm)}}{\text{Total Time(sec)}}$$

WORKLIST(Hardcopy Internal Chain)

1613814O

WorkList Name : IGN-120825 **WorkList ID :** 193520 **Department :** Wet-Chemistry **Date :** 12-08-2025 08:20:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3790-02	304 FURMAN SOIL	Solid	Ignitability	Cool 4 deg C	TULL02	D31	12/05/2025	1030
Q3795-01	72-11966	Solid	Ignitability	Cool 4 deg C	PSEG03	D11	12/05/2025	1030
Q3795-04	72-11966	Solid	Ignitability	Cool 4 deg C	PSEG03	D11	12/05/2025	1030
Q3795-05	RBR 200059	Solid	Ignitability	Cool 4 deg C	PSEG03	D11	12/05/2025	1030
Q3795-08	RBR-200059	Solid	Ignitability	Cool 4 deg C	PSEG03	D11	12/05/2025	1030
Q3803-01	CHASE-A	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-02	CHASE-B	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-03	CHASE-C	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-04	CHASE-D	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-05	CHASE-E	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-06	CHASE-F	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-07	CHASE-G	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-08	CHASE-H	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-09	CHASE-I	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-10	CHASE-J	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-11	CHASE-K	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-12	CHASE-L	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-13	CHASE-M	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3803-14	CHASE-N	Solid	Ignitability	Cool 4 deg C	PSEG03	A42	12/05/2025	1030
Q3804-01	120325-A	Solid	Ignitability	Cool 4 deg C	PSEG03	A23	12/05/2025	1030
Q3804-03	120325-B	Solid	Ignitability	Cool 4 deg C	PSEG03	A23	12/05/2025	1030

Date/Time 12/8/25 08:30
Raw Sample Received by: EM (WC)
Raw Sample Relinquished by: JD (WC)

Date/Time 12/8/25 12:50
Raw Sample Received by: JD (WC)
Raw Sample Relinquished by: EM (WC)

WORKLIST(Hardcopy Internal Chain)

WorkList Name : IGN-120825 **WorkList ID :** 193520 **Department :** Wet-Chemistry **Date :** 12-08-2025 09:34:06

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3804-04	120325-C	Solid	Ignitability	Cool 4 deg C	PSEG03	A23	12/05/2025	1030
Q3805-02	91725	Solid	Ignitability	Cool 4 deg C	PSEG03	A31	12/05/2025	1030

Date/Time 12/8/25 08:30
Raw Sample Received by: EM (WC)
Raw Sample Relinquished by: JO WOC

Date/Time 12/8/25 12:50
Raw Sample Received by: JO C WOC
Raw Sample Relinquished by: EM (WC)

LB138

Test results | Aquakem 7.2AQ1 | Page: 1

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Reviewed by : RM | Instrument ID : Konelab

12/8/2025 11:30

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	96.674	0.0	0.082	
ICB1	-0.204	0.0	0.001	
CCV1	244.011	0.0	0.203	
CCB1	-0.201	0.0	0.001	
PB17846BL	-0.525	0.0	0.001	
Q3758-02	-0.804	0.0	0.001	
Q3758-02DUP	-0.948	0.0	0.001	
Q3770-01	-0.309	0.0	0.001	
Q3775-01	-0.367	0.0	0.001	
Q3780-01	-0.613	0.0	0.001	
Q3790-02	-0.357	0.0	0.001	
Q3795-04	-0.536	0.0	0.001	
Q3795-08	-0.540	0.0	0.001	
CCV2	251.249	0.0	0.209	
CCB2	-0.255	0.0	0.001	

N	15
Mean	39.085
SD	88.2779
CV%	225.86

Aquakem v. 7.2AQ1
Results from time period:
Mon Dec 08 09:25:08 2025
Mon Dec 08 11:29:33 2025

Sample Id	Sam/Ctr/cA	Test short r	Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	A	Total CN	P	-0.2834	µg/l	12/8/2025 10:45:03	
5.0PPBCN	A	Total CN	P	3.8071	µg/l	12/8/2025 10:45:04	
10PPBCN	A	Total CN	P	9.438	µg/l	12/8/2025 10:45:05	
50PPBCN	A	Total CN	P	49.9363	µg/l	12/8/2025 10:45:06	
100PPBCN	A	Total CN	P	100.9069	µg/l	12/8/2025 10:45:07	
250PPBCN	A	Total CN	P	252.6937	µg/l	12/8/2025 10:45:08	
500PPBCN	A	Total CN	P	498.5013	µg/l	12/8/2025 10:45:09	
ICV1	S	Total CN	P	96.6741	µg/l	12/8/2025 11:13:22	
ICB1	S	Total CN	P	-0.204	µg/l	12/8/2025 11:13:24	
CCV1	S	Total CN	P	244.0112	µg/l	12/8/2025 11:13:26	
CCB1	S	Total CN	P	-0.2013	µg/l	12/8/2025 11:13:27	
PB17846BL	S	Total CN	P	-0.5246	µg/l	12/8/2025 11:13:29	
Q3758-02	S	Total CN	P	-0.8045	µg/l	12/8/2025 11:20:53	
Q3758-02DUP	S	Total CN	P	-0.948	µg/l	12/8/2025 11:20:57	
Q3770-01	S	Total CN	P	-0.3086	µg/l	12/8/2025 11:20:58	
Q3775-01	S	Total CN	P	-0.3673	µg/l	12/8/2025 11:20:59	
Q3780-01	S	Total CN	P	-0.6127	µg/l	12/8/2025 11:21:00	
Q3790-02	S	Total CN	P	-0.3573	µg/l	12/8/2025 11:21:01	
Q3795-04	S	Total CN	P	-0.5356	µg/l	12/8/2025 11:21:02	
Q3795-08	S	Total CN	P	-0.5396	µg/l	12/8/2025 11:21:03	
CCV2	S	Total CN	P	251.2485	µg/l	12/8/2025 11:25:44	
CCB2	S	Total CN	P	-0.255	µg/l	12/8/2025 11:29:32	

Calibration results Aquakem 7.2AQ1 Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

12/8/2025 10:48

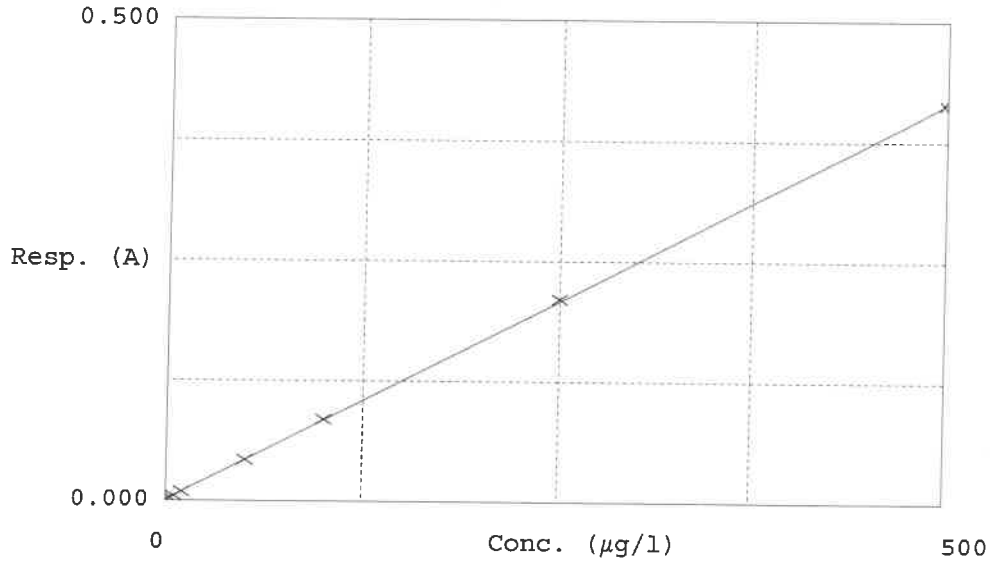
Test Total CN

Accepted 12/8/2025 10:48

Factor 1210
Bias 0.002

Coeff. of det. 0.999941

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	-0.2834	0.0000	-
2	5.0PPBCN	0.005	3.8071	5.0000	-23.9
3	10PPBCN	0.009	9.4380	10.0000	-5.6
4	50PPBCN	0.043	49.9363	50.0000	-0.1
5	100PPBCN	0.085	100.9069	100.0000	0.9
6	250PPBCN	0.210	252.6937	250.0000	1.1
7	500PPBCN	0.414	498.5013	500.0000	-0.3

12/8/2025
RM

Reviewed By:Iwona
On:12/8/2025 1:31:05 PM
Inst Id :WC PH METER-1

Analytical Summary Report

Analysis Method: 9045D
Analyst By : jignesh
Parameter: Corrosivity
Supervisor Review By : Iwona
Run Number: LB138148
Slope : 98.6
BalanceID: MSC-3
pH Meter ID : WC PH METER-1

Calibration Standards	Chemtech Log#
PH 4 BUFFER SOLUTION	W3178
BUFFER PH 7.00 GREEN 1PINT PK6	W3093
PH 10.01 BUFFER,COLOR CD 475ML	W3191
buffer solution pH 7 yellow	W3217
Buffer Solution, PH2 (500ml)	W3161
pH 12.00 Buffer	W3200

True Value of ICV = 7.00 Control Limits[+/- 0.1].

True Value of CCV1 = 2.00 Control Limits[+/- 0.05].

True Value of CCV2 = 12.00 Control Limits[+/- 0.05].

Seq	LabID	DF	Matrix	Weight (gm)	Volume (ml)	Temperature (°C)	Result (pH)	Anal Date	Anal Time
1	CAL1	1	Water	NA	NA	20.2	4.01	12/08/2025	11:11
2	CAL2	1	Water	NA	NA	20.2	7.00	12/08/2025	11:12
3	CAL3	1	Water	NA	NA	20.3	10.02	12/08/2025	11:13
4	ICV	1	Water	NA	NA	20.3	7.01	12/08/2025	11:15
5	CCV1	1	Water	NA	NA	20.3	2.02	12/08/2025	12:10
6	Q3780-01	1	Solid	20.02	20	20.2	5.30	12/08/2025	12:15
7	Q3790-02	1	Solid	20.03	20	20.8	7.95	12/08/2025	12:22
8	Q3795-04	1	Solid	20.03	20	20.1	7.99	12/08/2025	12:30
9	Q3795-08	1	Solid	20.05	20	20.2	7.50	12/08/2025	12:35
10	Q3795-08DUP	1	Solid	20.03	20	20.3	7.51	12/08/2025	12:37
11	CCV2	1	Water	NA	NA	20.3	12.02	12/08/2025	12:39

WORKLIST(Hardcopy Internal Chain)

VB 138148

WorkList Name : corrsovity q3803 **WorkList ID :** 193525 **Department :** Wet-Chemistry **Date :** 12-08-2025 10:51:36

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3780-01	PLASTIC SHEETING	Solid	Corrosivity	Cool 4 deg C	PSEG03	A11	12/04/2025	9045D
Q3790-02	304 FURMAN SOIL	Solid	Corrosivity	Cool 4 deg C	TULL02	D31	12/05/2025	9045D
Q3795-04	72-11966	Solid	Corrosivity	Cool 4 deg C	PSEG03	D11	12/05/2025	9045D
Q3795-08	RBR-200059	Solid	Corrosivity	Cool 4 deg C	PSEG03	D11	12/05/2025	9045D

Date/Time 12/08/25 11:10

Raw Sample Received by: WC

Raw Sample Relinquished by:

Date/Time 12/08/25 15:10

Raw Sample Received by:

Raw Sample Relinquished by: WC

CHEMTECH

Analytical Summary Report

Analysis Method: 9034
Parameter: Reactive Sulfide
Run Number: LB138172

ANALYST: rubina
SUPERVISOR REVIEW BY: Iwona
Constant: 16000
Normality1: 0.025
Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
1	PB170869BL		1	5.00	50	2.00	0.00	1.92	1.92	0.08	0.00	0.00	12/09/2025	13:00
2	Q3780-01		1	5.06	50	2.00	0.00	1.88	1.88	0.12	0.04	3.16	12/09/2025	13:03
3	Q3790-02		1	5.02	50	2.00	0.00	1.88	1.88	0.12	0.04	3.19	12/09/2025	13:05
4	Q3795-04		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:07
5	Q3795-08		1	5.04	50	2.00	0.00	1.86	1.86	0.14	0.06	4.76	12/09/2025	13:10
6	Q3814-02		1	5.07	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:13
7	Q3814-04		1	5.05	50	2.00	0.00	1.86	1.86	0.14	0.06	4.75	12/09/2025	13:16
8	Q3814-06		1	5.01	50	2.00	0.00	1.86	1.86	0.14	0.06	4.79	12/09/2025	13:18
9	Q3814-08		1	5.06	50	2.00	0.00	1.86	1.86	0.14	0.06	4.74	12/09/2025	13:20
10	Q3814-10		1	5.02	50	2.00	0.00	1.90	1.90	0.10	0.02	1.59	12/09/2025	13:23
11	Q3814-12		1	5.05	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:25
12	Q3814-14		1	5.05	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:27

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

CHEMTECH

Analytical Summary Report

Analysis Method: 9034
Parameter: Reactive Sulfide
Run Number: LB138172

ANALYST: rubina
SUPERVISOR REVIEW BY: Iwona
Constant: 16000
Normality1: 0.025
Normality2: 0.025

Reagent/Standard	Lot/Log #
SODIUM THIOSULFATE,0.025N,4LITRE	W3248
IODINE SOLUTION .025N 1L	W3213
Starch Solution, 4L	W3149

Seq	Lab ID	True Value (mg/l)	DF	Initial Weight (g)	Final Volume (ml)	T1 (ml)	T2 Initial	T2 Final	T2 Diff. (ml)	T1 - T2 Diff (mL)	Value Corrected With Blank	Result (ppm)	Anal Date	Anal Time
13	Q3814-16		1	5.07	50	2.00	0.00	1.86	1.86	0.14	0.06	4.73	12/09/2025	13:30
14	Q3815-02		1	5.06	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:33
15	Q3815-02DUP		1	5.06	50	2.00	0.00	1.90	1.90	0.10	0.02	1.58	12/09/2025	13:36

T1 = Titrant1

T2 = Titrant2

T2 Diff = T2 Final - T2 Initial

Value Corrected With Blank = ((T1 - T2 Diff) - Blank Correction(BL))

Result = ((T1 * Normality1) - ((T1 - Value Corrected With Blank) * Normality2)) * Constant / Initial Volume

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB170846

SOP ID : M9012B-Total, Amenable and Reactive Cyanide-21

SDG No : N/A

Start Digest Date: 12/08/2025 **Time :** 08:50 **Temp :** N/A

Matrix : SOIL

End Digest Date: 12/08/2025 **Time :** 10:20 **Temp :** N/A

Pippete ID : N/A

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** N/A

Block ID : MC-1 **Filter paper ID :** N/A **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** N/A **Supervisor Signature:** iz

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP113836
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID		Comment

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/8/2025 10:30	RM (WC)	RM (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Cyanide Preparation Sheet

PB170846

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170846BL	PBS846	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3758-02DUP	3462DUP	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3758-02	3462	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3770-01	4207	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3775-01	NGKO	5.08	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3780-01	PLASTIC SHEETING	5.03	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3790-02	304 FURMAN SOIL	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3795-04	72-11966	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3795-08	RBR-200059	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : rcn-12-8 **WorkList ID :** 193507 **Department :** Distillation **Date :** 12-08-2025 08:11:22

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3758-02	3462	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	A11	12/03/2025	9012B
Q3770-01	4207	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	A11	12/03/2025	9012B
Q3775-01	NGKO	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	A11	12/03/2025	9012B
Q3780-01	PLASTIC SHEETING	Solid	Reactive Cyanide	Cool 4 deg C	PSEG04	A11	12/03/2025	9012B
Q3790-02	304 FURMAN SOIL	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	A11	12/04/2025	9012B
Q3795-04	72-11966	Solid	Reactive Cyanide	Cool 4 deg C	TULL02	D31	12/05/2025	9012B
Q3795-08	RBR-200059	Solid	Reactive Cyanide	Cool 4 deg C	PSEG03	D11	12/05/2025	9012B

Date/Time 12/8/2025 08:25
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by:

Date/Time 12/8/2025 10:
Raw Sample Received by:
Raw Sample Relinquished by: RM (WC)

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB170869

SOP ID : M9030B-Sulfide-13

SDG No : N/A

Matrix : SOIL

Pippete ID : WC

Balance ID : M SC-4

Hood ID : HOOD#2

Block ID : WC-DIST-BLOCK-1

Weigh By : RM

Start Digest Date: 12/09/2025 **Time :** 09:15 **Temp :** N/A

End Digest Date: 12/09/2025 **Time :** 10:45 **Temp :** N/A

11 batch 12/09/2025 11.15 N/A

12/09/2025 12.45 N/A

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : N/A

Prep Technician Signature: RM

Supervisor Signature: 12

Standared Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.5M ZINC ACETATE	5.0ML	WP114311
FORMALDEHYDE	2.0ML	W3220
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

12/9/2025 RM

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Reactive Sulfide Preparation Sheet

PB170869

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB170869BL	PBS869	5.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3780-01	PLASTIC SHEETING	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3790-02	304 FURMAN SOIL	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3795-04	72-11966	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3795-08	RBR-200059	5.04	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-02	TP-5	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-04	TP-6	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-06	TP-7	5.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-08	TP-8	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-10	TP-9	5.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-12	TP-12	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-14	TP-10	5.05	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3814-16	TP-4	5.07	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3815-02	RE	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A
Q3815-02DUP	REDUP	5.06	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : RSUL-12-09 **WorkList ID :** 193548 **Department :** Distillation **Date :** 12-09-2025 08:17:25

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3780-01	PLASTIC SHEETING	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	A11	12/04/2025	9034
Q3790-02	304 FURMAN SOIL	Solid	Reactive Sulfide	Cool 4 deg C	TULL02	D31	12/05/2025	9034
Q3795-04	72-11966	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D11	12/05/2025	9034
Q3795-08	RBR-200059	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D11	12/05/2025	9034
Q3814-02	TP-5	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D11	12/05/2025	9034
Q3814-04	TP-6	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-06	TP-7	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-08	TP-8	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-10	TP-9	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-12	TP-12	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-14	TP-10	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3814-16	TP-4	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D41	12/08/2025	9034
Q3815-02	RE	Solid	Reactive Sulfide	Cool 4 deg C	PSEG03	D31	12/08/2025	9034

Date/Time 12/9/2025 08.30
Raw Sample Received by: RM (WC)
Raw Sample Relinquished by: [signature]

Date/Time 12/9/2025 12:00
Raw Sample Received by: [signature]
Raw Sample Relinquished by: RM (WC)

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

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB138140

Review By	Eman	Review On	12/8/2025 2:39:57 PM
Supervise By	Iwona	Supervise On	12/8/2025 1:02:39 PM
SubDirectory	LB138140	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	Q3790-02	304 FURMAN SOIL	SAM	12/08/25 09:40			OK
2	Q3790-02DUP	304 FURMAN SOILDUP	DUP	12/08/25 09:47			OK
3	Q3795-01	72-11966	SAM	12/08/25 09:54			OK
4	Q3795-04	72-11966	SAM	12/08/25 10:02			OK
5	Q3795-05	RBR 200059	SAM	12/08/25 10:10			OK
6	Q3795-08	RBR-200059	SAM	12/08/25 10:17			OK
7	Q3803-01	CHASE-A	SAM	12/08/25 10:25			OK
8	Q3803-02	CHASE-B	SAM	12/08/25 10:32			OK
9	Q3803-03	CHASE-C	SAM	12/08/25 10:40			OK
10	Q3803-04	CHASE-D	SAM	12/08/25 10:47			OK
11	Q3803-05	CHASE-E	SAM	12/08/25 10:55			OK
12	Q3803-06	CHASE-F	SAM	12/08/25 11:02			OK
13	Q3803-07	CHASE-G	SAM	12/08/25 11:10			OK
14	Q3803-08	CHASE-H	SAM	12/08/25 11:17			OK
15	Q3803-09	CHASE-I	SAM	12/08/25 11:25			OK
16	Q3803-10	CHASE-J	SAM	12/08/25 11:32			OK
17	Q3803-11	CHASE-K	SAM	12/08/25 11:40			OK
18	Q3803-12	CHASE-L	SAM	12/08/25 11:47			OK

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

Instrument ID: FLAME

Daily Analysis Runlog For Sequence/QCBatch ID # LB138140

Review By	Eman	Review On	12/8/2025 2:39:57 PM
Supervise By	Iwona	Supervise On	12/8/2025 1:02:39 PM
SubDirectory	LB138140	Test	Ignitability

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	N/A

19	Q3803-13	CHASE-M	SAM	12/08/25 11:55			OK
20	Q3803-14	CHASE-N	SAM	12/08/25 12:02			OK
21	Q3804-01	120325-A	SAM	12/08/25 12:10			OK
22	Q3804-03	120325-B	SAM	12/08/25 12:17			OK
23	Q3804-04	120325-C	SAM	12/08/25 12:25			OK
24	Q3805-02	91725	SAM	12/08/25 12:32			OK
25	Q3805-02DUP	91725DUP	DUP	12/08/25 12:39			OK

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB138145

Review By	rubina	Review On	12/8/2025 2:35:53 PM
Supervise By	Iwona	Supervise On	12/8/2025 4:06:13 PM
SubDirectory	LB138145	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992
ICV Standard	WP115993
CCV Standard	WP115987
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP115976,WP114324,WP115994

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	12/08/25 10:45		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	12/08/25 10:45		rubina	OK
3	10PPBCN	10PPBCN	CAL3	12/08/25 10:45		rubina	OK
4	50PPBCN	50PPBCN	CAL4	12/08/25 10:45		rubina	OK
5	100PPBCN	100PPBCN	CAL5	12/08/25 10:45		rubina	OK
6	250PPBCN	250PPBCN	CAL6	12/08/25 10:45		rubina	OK
7	500PPBCN	500PPBCN	CAL7	12/08/25 10:45		rubina	OK
8	ICV1	ICV1	ICV	12/08/25 11:13		rubina	OK
9	ICB1	ICB1	ICB	12/08/25 11:13		rubina	OK
10	CCV1	CCV1	CCV	12/08/25 11:13		rubina	OK
11	CCB1	CCB1	CCB	12/08/25 11:13		rubina	OK
12	PB170846BL	PB170846BL	MB	12/08/25 11:13		rubina	OK
13	Q3758-02	3462	SAM	12/08/25 11:20		rubina	OK
14	Q3758-02DUP	3462DUP	DUP	12/08/25 11:20		rubina	OK
15	Q3770-01	4207	SAM	12/08/25 11:20		rubina	OK
16	Q3775-01	NGKO	SAM	12/08/25 11:20		rubina	OK
17	Q3780-01	PLASTIC SHEETING	SAM	12/08/25 11:21		rubina	OK
18	Q3790-02	304 FURMAN SOIL	SAM	12/08/25 11:21		rubina	OK

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB138145

Review By	rubina	Review On	12/8/2025 2:35:53 PM
Supervise By	Iwona	Supervise On	12/8/2025 4:06:13 PM
SubDirectory	LB138145	Test	Reactive Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992
ICV Standard	WP115993
CCV Standard	WP115987
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	WP115976,WP114324,WP115994

19	Q3795-04	72-11966	SAM	12/08/25 11:21		rubina	OK
20	Q3795-08	RBR-200059	SAM	12/08/25 11:21		rubina	OK
21	CCV2	CCV2	CCV	12/08/25 11:25		rubina	OK
22	CCB2	CCB2	CCB	12/08/25 11:29		rubina	OK

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Fax : 908 789 8922

Instrument ID: WC PH METER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB138148

Review By	jignesh	Review On	12/8/2025 12:29:27 PM
Supervise By	Iwona	Supervise On	12/8/2025 1:31:05 PM
SubDirectory	LB138148	Test	Corrosivity

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3178,W3093,W3191,W3217,W3161,W3200

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	12/08/25 11:11		Jignesh	OK
2	CAL2	CAL2	CAL	12/08/25 11:12		Jignesh	OK
3	CAL3	CAL3	CAL	12/08/25 11:13		Jignesh	OK
4	ICV	ICV	ICV	12/08/25 11:15		Jignesh	OK
5	CCV1	CCV1	CCV	12/08/25 12:10		Jignesh	OK
6	Q3780-01	PLASTIC SHEETING	SAM	12/08/25 12:15		Jignesh	OK
7	Q3790-02	304 FURMAN SOIL	SAM	12/08/25 12:22		Jignesh	OK
8	Q3795-04	72-11966	SAM	12/08/25 12:30		Jignesh	OK
9	Q3795-08	RBR-200059	SAM	12/08/25 12:35		Jignesh	OK
10	Q3795-08DUP	RBR-200059DUP	DUP	12/08/25 12:37		Jignesh	OK
11	CCV2	CCV2	CCV	12/08/25 12:39		Jignesh	OK

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

Instrument ID: TITRAMETRIC

Daily Analysis Runlog For Sequence/QCBatch ID # LB138172

Review By	rubina	Review On	12/9/2025 2:02:14 PM
Supervise By	Iwona	Supervise On	12/9/2025 2:02:30 PM
SubDirectory	LB138172	Test	Reactive Sulfide

STD. NAME	STD REF.#
ICAL Standard	N/A
ICV Standard	N/A
CCV Standard	N/A
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	N/A
Chk Standard	W3248,W3213,W3149

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	PB170869BL	PB170869BL	MB	12/09/25 13:00		rubina	OK
2	Q3780-01	PLASTIC SHEETING	SAM	12/09/25 13:03		rubina	OK
3	Q3790-02	304 FURMAN SOIL	SAM	12/09/25 13:05		rubina	OK
4	Q3795-04	72-11966	SAM	12/09/25 13:07		rubina	OK
5	Q3795-08	RBR-200059	SAM	12/09/25 13:10		rubina	OK
6	Q3814-02	TP-5	SAM	12/09/25 13:13		rubina	OK
7	Q3814-04	TP-6	SAM	12/09/25 13:16		rubina	OK
8	Q3814-06	TP-7	SAM	12/09/25 13:18		rubina	OK
9	Q3814-08	TP-8	SAM	12/09/25 13:20		rubina	OK
10	Q3814-10	TP-9	SAM	12/09/25 13:23		rubina	OK
11	Q3814-12	TP-12	SAM	12/09/25 13:25		rubina	OK
12	Q3814-14	TP-10	SAM	12/09/25 13:27		rubina	OK
13	Q3814-16	TP-4	SAM	12/09/25 13:30		rubina	OK
14	Q3815-02	RE	SAM	12/09/25 13:33		rubina	OK
15	Q3815-02DUP	REDUP	DUP	12/09/25 13:36		rubina	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q3790

Test : Corrosivity,Ignitability,Percent Solids,Reactive Cyanide,Reactive Sulfide

Prepbatch ID : PB170846,PB170869,

Sequence ID/Qc Batch ID: LB138140,LB138145,LB138148,LB138172,

Standard ID :
WP113836,WP113838,WP114311,WP114324,WP115976,WP115985,WP115986,WP115987,WP115988,WP115989,WP115990,WP115991,WP115992,WP115993,WP115994,

Chemical ID :
M6151,W2926,W3019,W3093,W3112,W3113,W3139,W3149,W3161,W3178,W3191,W3200,W3203,W3213,W3217,W3220,W3224,W3248,W3254,W3257,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP113836	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/08/2025

FROM 21.00000L of W3112 + 210.00000gram of W3113 = Final Quantity: 21.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3371	Cyanide LCS Spike Solution, 5PPM	WP113838	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/08/2025

FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = 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
160	0.5M ZINC ACETATE	WP114311	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 08/19/2025

FROM 0.88900L of W3112 + 1.00000ml of M6151 + 110.00000gram of W2926 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Jignesh Parikh 08/19/2025

FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP115976	12/04/2025	06/05/2026	Rubina Mughal	WETCHEM_SCALE_6 (MSC-4)	None	Jignesh Parikh 12/05/2025

FROM 138.00000gram of W3254 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP115985	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 0.25000ml of W3257 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
4	Calibation standard 500 ppb	WP115986	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 45.00000ml of WP113836 + 5.00000ml of WP115985 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3761	Calibration-CCV CN Standard 250 ppb	WP115987	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 2.50000ml of WP115985 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
6	Calibration Standard 100 ppb	WP115988	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 1.00000ml of WP115985 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
7	Calibration Standard 50 ppb	WP115989	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 0.50000ml of WP115985 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
8	Calibration Standard 10 ppb	WP115990	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 1.00000ml of WP115986 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
9	Calibration Standard 5 ppb	WP115991	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 0.50000ml of WP115986 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
167	0 ppb CN calibration std	WP115992	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 50.00000ml of WP113836 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2168	RCN ICV STD, 100 PPB	WP115993	12/08/2025	12/09/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/08/2025

FROM 1.00000ml of WP113838 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP115994	12/08/2025	12/09/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 12/08/2025

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 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-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)	22G2862015	02/17/2026	02/18/2025 / Sagar	01/15/2025 / Sagar	M6151

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J4296-1 / ZINC ACETATE,DIHYD,CRYS,ACS,500G	383058	07/05/2027	07/05/2022 / ketankumar	07/05/2022 / ketankumar	W2926

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
SIGMA ALDRICH	270970-1L / Pyridine 1L	SHBQ2113	04/03/2028	04/03/2023 / Iwona	04/03/2023 / Iwona	W3019

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	566002 / BUFFER PH 7.00 GREEN 1PINT PK6	44001f99	12/31/2025	04/03/2024 / jignesh	04/02/2024 / jignesh	W3093

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113

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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.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL70850-8 / Starch Solution, 4L	4408P62	08/31/2026	10/16/2024 / Iwona	10/16/2024 / Iwona	W3149

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL13850-1 / Buffer Solution, PH2 (500ml)	2411E26	10/31/2026	12/09/2024 / Iwona	12/09/2024 / Iwona	W3161

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14055-3 / PH 4 BUFFER SOLUTION	2411A93	10/30/2026	04/01/2025 / JIGNESH	01/27/2025 / jignesh	W3178

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	1601-1 / PH 10.01 BUFFER,COLOR CD 475ML	2410F80	03/31/2026	04/01/2025 / JIGNESH	03/13/2025 / jignesh	W3191

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
RICCA CHEMICAL COMPANY	1615-16 / pH 12.00 Buffer	2504F20	09/30/2026	04/11/2025 / Iwona	04/11/2025 / Iwona	W3200

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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.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / Iwona	04/21/2025 / Iwona	W3203

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL35830-4 / IODINE SOLUTION .025N 1L	MK25A21527	01/20/2029	05/21/2025 / Iwona	05/21/2025 / Iwona	W3213

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL14455-3 / buffer solution pH 7 yellow	2504D34	03/31/2027	07/02/2025 / jignesh	06/26/2025 / Iwona	W3217

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EMD-FX0410-5 / FORMALDEHYDE SOLUTION 450ML	MKCW7614	12/31/2026	06/26/2025 / Iwona	06/26/2025 / Iwona	W3220

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	LC135457 / Cyanide Standard, 1000 PPM, Second Source	45060288	12/24/2025	07/07/2025 / Iwona	07/07/2025 / Iwona	W3224

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AL69870-8 / SODIUM THIOSULFATE,0.025N,4LITRE	250904J	02/28/2027	10/03/2025 / Iwona	10/03/2025 / Iwona	W3248

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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.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	25E0756587	07/10/2028	12/01/2025 / Iwona	11/19/2025 / Iwona	W3254

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	15100125	03/31/2026	11/19/2025 / Iwona	11/19/2025 / Iwona	W3257

Sigma-Aldrich.

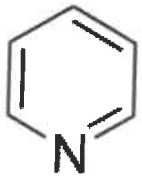
W3019
Rec 4/3/23

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:
Pyridine - anhydrous, 99.8%

Product Number:	**270970**
Batch Number:	**SHBQ2113**
Brand:	SIAL
CAS Number:	110-86-1
MDL Number:	MFCD00011732
Formula:	C5H5N
Formula Weight:	79.10 g/mol
Quality Release Date:	15 DEC 2022



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Purity (GC)	≥ 99.75 %	99.99 %
Water (by Karl Fischer)	≤ 0.003 %	0.002 %
Residue on Evaporation	≤ 0.0005 %	< 0.0001 %

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

Hydrochloric Acid, 36.5–38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

M6151

R→ 1/15/25

Material No.: 9530-33
Batch No.: 22G2862015
Manufactured Date: 2022-06-15
Retest Date: 2027-06-14
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
ACS – Assay (as HCl) (by acid-base titrn)	36.5 – 38.0 %	37.9 %
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Specific Gravity at 60°/60°F	1.185 – 1.192	1.191
ACS – Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS – Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS – Free Chlorine (as Cl_2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO_4)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO_3)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH_4)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result
Trace Impurities - Lead (Pb)	≤ 1.0 ppb	< 0.5 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Magnesium (Mg)	≤ 10.0 ppb	2.9 ppb
Trace Impurities - Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	0.1 ppb
Trace Impurities - Molybdenum (Mo)	≤ 10.0 ppb	< 3.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	< 0.3 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	0.8 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 2.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.3 ppb
Trace Impurities - Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Tantalum (Ta)	≤ 1.0 ppb	1.6 ppb
Trace Impurities - Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	4.0 ppb
Trace Impurities - Titanium (Ti)	≤ 1.0 ppb	1.5 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	0.3 ppb

>>> Continued on page 3 >>>

Hydrochloric Acid, 36.5-38.0%
BAKER INSTRA-ANALYZED® Reagent
For Trace Metal Analysis

avantor™ | J.T.Baker®

Material No.: 9530-33
Batch No.: 22G2862015

Test	Specification	Result

For Laboratory,Research,or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications
Storage Condition: Store below 25 °C.

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

James T Ethier

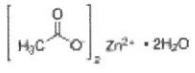
Jamie Ethier
Vice President Global Quality

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

W2926
open 7/5/22
received
on
7/5/22

Certificate of Analysis

Product Name:
Zinc acetate dihydrate - ACS reagent, ≥98%



Product Number:	**383058**
Batch Number:	**MKCQ9159**
Brand:	SIGALD
CAS Number:	5970-45-6
MDL Number:	MFCD00066961
Formula:	C4H6O4Zn · 2H2O
Formula Weight:	219.51 g/mol
Quality Release Date:	06 JAN 2022

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystal or Chunk(s)	Powder
Infrared Spectrum	Conforms to Structure	Conforms
Insoluble Matter	≤ 0.005 %	0.003 %
Calcium (Ca)	≤ 0.005 %	0.003 %
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 5 ppm
Potassium (K)	≤ 0.01 %	0.00 %
Magnesium (Mg)	≤ 0.005 %	0.003 %
Sodium (Na)	≤ 0.05 %	0.03 %
Lead (Pb)	≤ 0.002 %	< 0.001 %
pH	6.0 - 7.0	6.1
Sulfate (SO4)	≤ 0.005 %	< 0.005 %
Complexometric EDTA	98.0 - 101.0 %	100.3 %
Meets ACS Requirements	Meets Requirements	Meets Requirements

Larry Coers, Director
Quality Control
Milwaukee, WI US

RICCA CHEMICAL COMPANY®

1490 Lammers Pike
Batesville, IN 47006
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1-888-GO-RICCA
customerservice@riccachemical.com

W3093 0941 04/03/2024 LG

Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 4401F99 **Product Number:** 1551

Manufacture Date: JAN 08, 2024
Expiration Date: DEC 2025

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.004	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Batesville, IN laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.02) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-1	4 L natural poly	24 months
1551-1CT	4 L Cubitainer®	24 months
1551-2.5	10 L Cubitainer®	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (01/08/2024)
Production Manager
This document is designed to comply with ISO Guide 31 "Reference Materials -- Contents of Certificates and Labels."

This product was tested in an ISO 17025 Accredited Laboratory

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

Chemical Formula: NaOH
Molecular Weight: 40
CAS #: 1310-73-2
Appearance:

Pellets

Manufacture Date: 12/14/2022
Expiration Date: 12/31/2025

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<= 0.005 %	<0.005 %	PASS
Chloride	<= 0.005 %	0.002 %	PASS
Heavy Metals	<= 0.002 %	<0.002 %	PASS
Iron	<= 0.001 %	<0.001 %	PASS
Magnesium	<= 0.002 %	<0.002 %	PASS
Mercury	<= 0.1 ppm	<0.1 ppm	PASS
Nickel	<= 0.001 %	<0.001 %	PASS
Nitrogen Compounds	<= 0.001 %	<0.001 %	PASS
Phosphate	<= 0.001 %	<0.001 %	PASS
Potassium	<= 0.02 %	<0.02 %	PASS
Purity	>= 97.0 %	99.2 %	PASS
Sodium Carbonate	<= 1.0 %	0.5 %	PASS
Sulfate	<= 0.003 %	<0.003 %	PASS

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.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

Chemical Formula:	NaOH	Manufacture Date:	12/14/2022
Molecular Weight:	40	Expiration Date:	12/31/2025
CAS #:	1310-73-2		
Appearance:		Storage:	Room Temperature

Pellets

Spec Set: 0583ACS

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.

ThermoFisher SCIENTIFIC

Certificate of Analysis

W3139 Received on 9/9/24 by IZ

Product No.:	A12044
Product:	Chloramine-T trihydrate, 98%
Lot No.:	10239484

Appearance:	White powder
Melting Point:	166°C(dec)
Assay (Iodometric titration):	100.5%
Identification (FTIR):	Conforms

RICCA CHEMICAL COMPANY®

W3149 Received on 10/16/24 by IZ

1490 Lammers Pike
Batesville, IN 47006
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Starch Indicator, 0.5% (w/v), Mercury Free, for Iodometric Titrations

Lot Number: 4408P62 **Product Number:** 8000

Manufacture Date: AUG 28, 2024
Expiration Date: AUG 2026

This product is Mercury-free.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Starch, soluble	9005-84-9	ACS
Salicylic Acid	69-72-7	ACS

Test	Specification	Result
Appearance	White translucent liquid	Passed
Suitability for Use	Colorless (Iodine absent) - Blue (Iodine present)	Passed

Specification	Reference
Starch Solution	APHA (4500-S2- F)
Starch Indicator Solution	APHA (4500-Cl B)
Starch Indicator	APHA (4500-SO32- B)
Starch indicator solution	APHA (2350 B)
Starch indicator solution	APHA (2350 E)
Starch Solution	APHA (510 B)
Starch Solution	APHA (5530 C)
Starch Indicator	APHA (4500-Cl C)
Starch Indicator	EPA (345.1)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
8000-1	4 L natural poly	24 months
8000-16	500 mL natural poly	24 months
8000-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Paul Brandon (08/28/2024)
Production Manager

RICCA CHEMICAL COMPANY®

W3161 Rec. on 12/09/24 by IZ

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customerservice@riccachemical.com

Certificate of Analysis

Buffer, Reference Standard, pH 2.00 ± 0.01 at 25°C

Lot Number: 2411E26 **Product Number:** 1493

Manufacture Date: NOV 11, 2024
Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	10	15	20	25	30	35	40	45	50
pH	1.93	1.98	1.98	2.00	2.01	2.03	2.03	2.04	2.04

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Hydrochloric Acid	7647-01-0	ACS

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	1.994	0.02	185i, 186-I-g, 186-II-g

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1493-1	4 L natural poly	24 months
1493-16	500 mL natural poly	24 months
1493-1CT	4 L Cubitainer®	24 months
1493-2.5	10 L Cubitainer®	24 months
1493-32	1 L natural poly	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (11/11/2024)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

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Certificate of Analysis

W3178 58

Buffer, Reference Standard, pH 4.00 ± 0.01 at 25°C (Color Coded Red)

Lot Number: 2411A93 **Product Number:** 1501 **Manufacture Date:** NOV 04, 2024
Expiration Date: OCT 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST Traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	4.00	4.00	4.00	4.00	4.00	4.00	4.01	4.02	4.03	4.04	4.06

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Acid Phthalate	877-24-7	Buffer
Preservative	Proprietary	Commercial
Red Dye	Proprietary	Purified

Test	Specification	Result	
Appearance	Red liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	4.008	0.02	185i, 186-I-g, 186-II-g

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer B	ASTM (D 5464)
Buffer B	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1501-16	500 mL natural poly	24 months
1501-2.5	10 L Cubitainer®	24 months
1501-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

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W3191 W3191 Receive Date: 03/18/25 JP

Certificate of Analysis

Buffer, Reference Standard, pH 10.00 ± 0.01 at 25°C (Color Coded Blue)

Lot Number: 2410F80 **Product Number:** 1601 **Manufacture Date:** OCT 09, 2024

Expiration Date: MAR 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	50
pH	10.31	10.23	10.17	10.11	10.05	10.00	9.95	9.91	9.87	9.81

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Carbonate	497-19-8	ACS
Sodium Bicarbonate	144-55-8	ACS
Sodium Hydroxide	1310-73-2	Reagent
Preservative	Proprietary	
Blue Dye	Proprietary	

Test	Specification	Result	
Appearance	Blue liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	10.009	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	
Buffer C	ASTM (D 1293 B)
Buffer C	ASTM (D 5464)
	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1601-1	4 L natural poly	18 months
1601-16	500 mL natural poly	18 months
1601-1CT	4 L Cubitainer®	18 months
1601-2.5	10 L Cubitainer®	18 months
1601-32	1 L natural poly	18 months
1601-5	20 L Cubitainer®	18 months

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W3200 Received on 04/11/2025 by IZ

Certificate of Analysis

Buffer, Reference Standard, pH 12.00 ± 0.01 at 25°C

Lot Number: 2504F20 **Product Number:** 1615

Manufacture Date: APR 08, 2025
Expiration Date: SEP 2026

The certified value for this product is confirmed in independent testing by a second qualified chemist.

°C	15	20	25	30	35	40
pH	12.35	12.17	11.99	11.78	11.62	11.46

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Potassium Chloride	7447-40-7	ACS
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result	
Appearance	Colorless liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	12.009	0.02	186-I-g, 186-II-g, 191d

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1615-1	4 L natural poly	18 months
1615-16	500 mL clear PET-G	18 months
1615-5	20 L Cubitainer®	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (04/08/2025)
Operations Manager

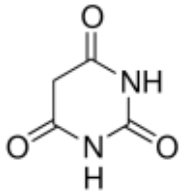
This product was tested in an ISO 17025 Accredited Laboratory

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:
Barbituric acid - ReagentPlus® , 99%

Product Number:	**185698**
Batch Number:	**WXBF3271V**
Brand:	SIAL
CAS Number:	67-52-7
Formula:	C4H4N2O3
Formula Weight:	128,09 g/mol
Quality Release Date:	16 MAY 2024



Test	Specification	Result
Appearance (Colour)	White to Off-White	White
Appearance (Form)	Powder	Powder
Infrared spectrum	Conforms to Structure	Conforms
Purity (Titration by NaOH)	98.5 - 101.5 %	100.4 %
GC (area %) VPCT	≥ 98 %	100 %

Kang Chen
Quality Manager
Wuxi , China CN

N3213 Received on 5/21/25 by 12

Certificate of Analysis

Material	BDHVBDH7206-1
Material Description	IODINE SOLUTION 0.025N
Lot	25A2461008
Expires end of	2029-Jan-20
Molecular mass	0
Last Quality Control	2025-Jan-24
Date of manufacture	2025-Jan-21
Made in	United States
Manufacturer Source Batch	MK25A21527

Additional infomation

Characteristics	Specifications	Measured values
Prepared to formulation on file	Confirmed	Confirmed
Appearance	Passes Test	Passes Test
Normality, N	0.0200 - 0.0300	0.0268

Signature

We certify that this batch conforms to the specifications listed above.

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

Michelle Bales - Sr. Manager Quality Assurance
Avantor Performance Materials, LLC

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Certificate of Analysis

Buffer, Reference Standard, pH 7.00 ± 0.01 at 25°C (Color Coded Yellow)

Lot Number: 2504D34 **Product Number:** 1551

Manufacture Date: APR 03, 2025
Expiration Date: MAR 2027

The certified value for this product is confirmed in independent testing by a second qualified chemist.
The NIST traceable pH value is certified to ±0.01 at 25 °C only. All other pH values at their corresponding temperatures are accurate to ± 0.05.

°C	0	5	10	15	20	25	30	35	40	45	50
pH	7.12	7.09	7.06	7.04	7.02	7.00	6.99	6.98	6.98	6.97	6.97

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Phosphate Dibasic	7558-79-4	ACS
Potassium Dihydrogen Phosphate	7778-77-0	ACS
Preservative	Proprietary	
Yellow Dye	Proprietary	
Sodium Hydroxide	1310-73-2	Reagent (from ACS)

Test	Specification	Result	
Appearance	Yellow liquid	Passed	*Not a certified value.

Test	Certified Value	Uncertainty	NIST SRM#
pH at 25°C (Method: SQCP027, SQCP033)	7.003	0.02	186-I-g, 186-II-g, 191d

Specification	Reference
Commercial Buffer Solutions	ASTM (D 1293 B)
Buffer A	ASTM (D 5464)
Buffer A	ASTM (D 5128)

pH measurements were performed in our Pocomoke City, MD laboratory under ISO/IEC 17025 accreditation (ANAB Certificate L2387.01) and are certified traceable to National Institute of Standards and Technology (NIST) Standard Reference Material as indicated above via an unbroken chain of comparisons. The uncertainty is calculated from the uncertainty of the measurement variation from sample to sample, the uncertainty in the NIST Standard Reference Material, and the uncertainty of the measurement process. The uncertainty is multiplied by k=2, corresponding to 95% coverage in a normal distribution. Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
1551-2.5	10 L Cubitainer®	24 months
1551-20	20 x 20 mL pack	24 months
1551-32	1 L natural poly	24 months
1551-5	20 L Cubitainer®	24 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (04/03/2025)
Operations Manager

This product was tested in an ISO 17025 Accredited Laboratory

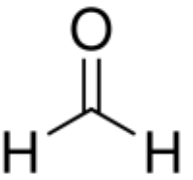
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Formaldehyde solution - ACS reagent, 37 wt. % in H_2O, contains 10-15% Methanol as stabilizer (to prevent polymerization)

Product Number:	**252549**
Batch Number:	**MKCW7614**
Brand:	SIAL
MDL Number:	MFCD00003274
Quality Release Date:	05 DEC 2024
Recommended Retest Date:	DEC 2026



Test	Specification	Result
Appearance (Color)	Colorless	Colorless
Appearance (Form)	Liquid	Liquid
Infrared Spectrum	Conforms to Structure	Conforms
Titration by H2SO4	36.5 - 38.0 %	36.6 %
Residue on ignition (Ash)	≤ 0.005 %	0.004 %
Color Test	≤ 10 APHA	5 APHA
Chloride (Cl)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 5 ppm	< 1 ppm
Heavy Metals by ICP-OES	≤ 5 ppm	2 ppm
Sulfate (SO4)	< = 0.002%	< = 0.002%
Titratable Acid (meq/g)	≤ 0.006	< 0.006
Note Stabilized with 10% to 15% Methanol	Confirmed	Conforms
Meets ACS Requirements	Current ACS Specification	Conforms
Recommended Retest Period 2 Years	----------	----------

Larry Coers, Director
Quality Control
Milwaukee, WI US

LabChem
Part of TCP Analytical Group
Jackson's Pointe Commerce Park- Building 1000
1010 Jackson's Pointe Court, Zelienople, PA 16063

Certificate of Analysis

Cyanide Standard 1000 ppm (1ml = 1mg CN)

Product Code: **LC13545**

Manufacture Date: June 25, 2025

Lot Number: **45060288**

Expiration Date: December 24, 2025

Test	Specification	Result
Appearance (clarity)	clear solution	clear solution
Appearance (color)	colorless	colorless
Concentration (CN)	0.990 - 1.010mg/mL	1.000mg/mL
Concentration (CN)	990 - 1,010ppm	1,000ppm
Traceable to NIST SRM	Report	999b

Intended Use *- Product is intended for use in manufacturing procedures and laboratory procedures and protocols.*

Storage Information *- Unless noted on the product label, store the product under normal lab conditions in its tightly closed, original container. Do not pipet directly from the container or return unused portions to the container.*

Instructions for Handling and Use - *Please refer to the associated product label and Safety Data Sheet (SDS) for information regarding safety and handling of this product.*

Preparation - *All products are manufactured and tested according to established, documented procedures and methodology. Production documentation records manufacturing data, raw material traceability and testing history on a per lot basis. Balances, thermometers, and glassware are calibrated before first use and on a regular schedule with references traceable to NIST*

The suffix of the product code may differ from what is on your product label. The suffix will designate the size and be associated with a numeric digit(s). Visit LabChem.com for more information

Suffix	1	2	3/3S/36/36S	4/4C	5	6	7	8	9	20	44	200	246	486
Size	500mL or g	1L or 1kg	2.5L/2.5L Coated/6x2.5L/6x2.5L Coated	4L	20L	10L	125mL	25g	100g	20x20mL	4x4L	200L	24x6mL	48x6mL

Michael Monteleone

Michael Monteleone
Chemistry Supervisor - Quality Control
2025070315:30:45ahoffman-0-0

ISO9001:2015 Registration #0306-01

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W3248 Received on 10/08/25 by IZ

Certificate of Analysis

Sodium Thiosulfate, 0.0250 Normal (N/40)

Lot Number: 250904J **Product Number:** 7900

Manufacture Date: SEP 03, 2025
Expiration Date: FEB 2027

This product is specially formulated to increase its stability. A preservative is added to prevent bacterial contamination. However, all Sodium Thiosulfate solutions are subject to slow chemical deterioration and should be restandardized periodically.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Organic Preservative	Proprietary	
Sodium Carbonate	497-19-8	ACS
Sodium Thiosulfate Pentahydrate	10102-17-7	ACS

Test	Specification	Result	NIST SRM#
Appearance	Colorless liquid	Passed	
Assay (vs. Potassium Iodate/Starch)	0.02499-0.02501 N at 20°C	0.02501 N at 20°C	136

Specification	Reference
Standard Sodium Thiosulfate Solution, 0.0250 N	APHA (4500-S2- F)
Standard Sodium Thiosulfate Titrant	APHA (4500-O D)
Standard Sodium Thiosulfate Titrant	APHA (4500-O E)
Standard Sodium Thiosulfate Titrant	APHA (4500-O F)
Standard Sodium Thiosulfate Titrant, 0.025 N	APHA (4500-Cl B)
Standard Sodium Thiosulfate Titrant	APHA (4500-O C)
Standard Sodium Thiosulfate Titrant, 0.025 M	APHA (5530 C)
Standard Sodium Thiosulfate Solution (0.025 N)	EPA (SW-846) (9031)
Standard Sodium Thiosulfate solution (0.025 N)	EPA (SW-846) (9034)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
7900-1	4 L natural poly	18 months
7900-16	500 mL natural poly	18 months
7900-32	1 L natural poly	18 months

Recommended Storage: 15°C - 30°C (59°F - 86°F)

Jose Pena (09/03/2025)
Operations Manager

Certificate of Analysis

SODIUM PHOSPHATE, MONOBASIC, MONOHYDRATE

Material: 0823-2.5KG
Grade: ACS GRADE
Batch Number: 25E0756587

Chemical Formula: NaH2PO4.H2O
Molecular Weight: 137.99
CAS#: 10049-21-5
Appearance:
White crystalline powder

Manufacture Date: 07-10-2024
Reassay Date: 07-10-2028

Storage: Room Temperature

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	<=0.005 %	<0.001 %	PASS
Chloride	<=0.0005 %	0.0003 %	PASS
Heavy metals	<=0.001 %	<0.001 %	PASS
Insolubles	<=0.01 %	<0.01 %	PASS
Iron	<=0.001 %	<0.000 %	PASS
pH (5%, Water) @25C	4.1-4.5	4.3	PASS
Potassium	<=0.01 %	<0.01 %	PASS
Purity	98.0-102.0 %	99.0 %	PASS
Sulfate	<=0.003 %	<0.003 %	PASS

Spec Set: 0823-2.5KGACS

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 infomation

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

Product meets analytical specifications of the grades listed.

RICCA CHEMICAL COMPANY®

448 West Fork Dr
Arlington, TX 76012
http://www.riccachemical.com
1-888-GO-RICCA
customerservice@riccachemical.com

Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 15100125 **Product Number:** 2543

Manufacture Date: OCT 06, 2025
Expiration Date: MAR 2026

This standard is prepared using accurate volumetric techniques from material that has been assayed against Silver Nitrate solution certifiec traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.
Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

Name	CAS#	Grade
Water	7732-18-5	ACS/ASTM/USP/EP
Sodium Hydroxide	1310-73-2	Reagent (from ACS)
Potassium Cyanide	151-50-8	ACS

Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN^-)	995-1005 ppm	1000 ppm

Specification	Reference
Stock Standard Cyanide Solution	APHA (4500-CN- F)
Stock Cyanide Solution	APHA (4500-CN- E)
Stock Cyanide Solution	APHA (4500-CN- K)
Stock Cyanide Solution	APHA (4500-CN- H)
Cyanide Reference Solution (1000 mg/L)	EPA (SW-846) (7.3.3.2)
Cyanide Calibration Stock Solution (1,000 mg/L CN-)	EPA (SW-846) (9213)
Stock Cyanide Solution	EPA (335.3)
Stock Cyanide Solution	EPA (335.2)
Cyanide Solution Stock	ASTM (D 4282)
Simple Cyanide Solution, Stock (1.0 g/L CN)	ASTM (D 4374)

Volumetric glassware complies with Class A tolerance requirements of ASTM E 288 and NIST Circular 434; it is calibrated before first use and recalibrated regularly in accordance with ASTM E 542 and NIST Procedure NBSIR 74-461. Balances are calibrated regularly with weights certified traceable to the NIST national mass standard. Thermometers and temperature probes are calibrated before first use and recalibrated regularly with a thermometer traceable to NIST standards. All products are prepared according to master documents that assure manufacture according to validated methods. Batch records document raw material traceability and production and testing history for each lot manufactured.

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-4	120 mL amber poly	6 months

Recommended Storage: 2°C - 8°C (36°F - 46°F)

Ernest Mahan (10/06/2025)
Plant Manager

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 12/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 12/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB138141

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3789-05	SVOC-GPC-BLANK	1	1.00	1.00	2.00	2.00	100.0	
Q3789-06	PEST-GPC-BLANK	2	1.00	1.00	2.00	2.00	100.0	
Q3789-07	PEST-GPC-BLANK-SPIKE	3	1.00	1.00	2.00	2.00	100.0	
Q3789-08	SVOC-GPC2-BLANK	4	1.00	1.00	2.00	2.00	100.0	
Q3789-09	PEST-GPC2-BLANK	5	1.00	1.00	2.00	2.00	100.0	
Q3789-10	PEST -GPC2-BLANK-SPIKE	6	1.00	1.00	2.00	2.00	100.0	
Q3790-01	304 FURMAN SOIL	7	1.14	10.35	11.49	10.07	86.3	
Q3790-03	304 FURMAN SOIL	8	1.18	10.08	11.26	9.81	85.6	
Q3790-04	304 FURMAN SOIL-TPH-1	9	1.13	10.55	11.68	10.3	86.9	
Q3790-05	304 FURMAN SOIL-TPH-2	10	1.18	10.53	11.71	10.22	85.8	
Q3790-06	304 FURMAN SOIL-TPH-3	11	1.15	10.38	11.53	10.00	85.3	
Q3795-01	72-11966	12	1.12	11.09	12.21	11.15	90.4	
Q3795-02	72-11966-EPH	13	1.15	10.84	11.99	11.13	92.1	
Q3795-03	72-11966-VOC	14	1.19	10.51	11.7	10.8	91.4	
Q3795-05	RBR 200059	15	1.18	10.81	11.99	9.81	79.8	
Q3795-06	RBR-200059-EPH	16	1.16	11.00	12.16	9.61	76.8	
Q3795-07	RBR-200059-VOC	17	1.16	10.62	11.78	10.6	88.9	
Q3800-01	ETGI-288	18	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3800-02	COMP#1	19	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3800-03	CONP#2	20	1.00	1.00	2.00	2.00	100.0	Concreate sample
Q3801-01	SOIL#1	21	1.11	10.55	11.66	10.6	90.0	
Q3801-02	SOIL#1-EPH	22	1.15	10.33	11.48	10.39	89.4	
Q3801-03	SOIL-1-VOC	23	1.19	10.65	11.84	10.64	88.7	
Q3801-04	SOIL#1-EPH-1	24	1.15	10.40	11.55	10.44	89.3	
Q3801-05	SOIL#1-EPH-2	25	1.18	10.53	11.71	10.6	89.5	
Q3801-06	SOIL#2	26	1.19	10.90	12.09	11.14	91.3	
Q3801-07	SOIL#2-EPH	27	1.11	10.68	11.79	10.77	90.4	
Q3801-08	SOIL#2-VOC	28	1.14	10.50	11.64	10.14	85.7	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 12/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 12/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB138141

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3801-09	SOIL#2-EPH-1	29	1.19	10.50	11.69	10.47	88.4	
Q3801-10	SOIL#2-EPH-2	30	1.12	11.08	12.2	10.82	87.5	
Q3802-01	12-5-2025-A	31	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3802-02	12-5-2025-B	32	1.00	1.00	2.00	2.00	100.0	WIPE SAMPLE
Q3803-01	CHASE-A	33	1.15	10.19	11.34	11.28	99.4	
Q3803-02	CHASE-B	34	1.15	10.18	11.33	11.27	99.4	
Q3803-03	CHASE-C	35	1.19	10.70	11.89	11.84	99.5	
Q3803-04	CHASE-D	36	1.16	10.77	11.93	11.87	99.4	
Q3803-05	CHASE-E	37	1.16	10.52	11.68	11.66	99.8	
Q3803-06	CHASE-F	38	1.16	10.47	11.63	11.6	99.7	
Q3803-07	CHASE-G	39	1.11	10.84	11.95	11.92	99.7	
Q3803-08	CHASE-H	40	1.18	10.22	11.4	11.37	99.7	
Q3803-09	CHASE-I	41	1.19	10.61	11.8	11.72	99.2	
Q3803-10	CHASE-J	42	1.18	10.65	11.83	11.78	99.5	
Q3803-11	CHASE-K	43	1.11	10.12	11.23	11.21	99.8	
Q3803-12	CHASE-L	44	1.19	10.30	11.49	11.47	99.8	
Q3803-13	CHASE-M	45	1.19	10.26	11.45	11.37	99.2	
Q3803-14	CHASE-N	46	1.19	10.51	11.7	11.65	99.5	
Q3804-01	120325-A	47	1.14	10.39	11.53	10.2	87.2	
Q3804-02	120325-A	48	1.14	10.39	11.53	10.2	87.2	
Q3804-03	120325-B	49	1.19	10.23	11.42	11.12	97.1	
Q3804-04	120325-C	50	1.16	10.54	11.7	11.33	96.5	
Q3805-02	91725	51	1.00	1.00	2.00	2.00	100.0	oily-debris
Q3806-01	TR-01-12-5-2025	52	1.11	10.19	11.3	10.53	92.4	
Q3806-02	TR-01-12-5-2025	53	1.16	10.56	11.72	10.65	89.9	
Q3806-03	TR-01-12-5-2025	54	1.15	10.47	11.62	10.89	93.0	
Q3806-04	TR-05-12-5-2025	55	1.16	10.48	11.64	11.00	93.9	
Q3806-05	TR-05-12-5-2025	56	1.13	10.95	12.08	11.33	93.2	

PERCENT SOLID

Supervisor: Iwona
Analyst: jignesh
Date: 12/9/2025

OVENTEMP IN Celsius(°C): 107
Time IN: 17:10
In Date: 12/08/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:25
Out Date: 12/09/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB138141

Lab ID	Client SampleID	Dish #	Dish Wt(g) (A)	Sample Wt(g)	Dish + Sample Wt(g) (B)	Dish+Dry Sample Wt(g) (C)	% Solid	Comments
Q3806-06	TR-05-12-5-2025	57	1.18	10.54	11.72	10.68	90.1	
Q3809-01	SW-1	58	1.15	10.52	11.67	10.7	90.8	
Q3809-02	SW-2	72	1.14	10.92	12.06	10.03	81.4	
Q3809-03	B-1	59	1.18	10.17	11.35	8.75	74.4	
Q3809-04	SW-3	60	1.19	10.70	11.89	10.89	90.7	
Q3809-05	SW-4	61	1.11	10.41	11.52	10.75	92.6	
Q3809-06	B-2	62	1.19	10.68	11.87	9.24	75.4	
Q3809-07	B-3	63	1.15	10.66	11.81	9.12	74.8	
Q3809-08	SW-5	64	1.16	10.63	11.79	9.62	79.6	
Q3809-09	SW-6	65	1.16	10.36	11.52	9.66	82.0	
Q3809-10	SW-7	66	1.13	10.50	11.63	8.77	72.8	
Q3809-11	SW-8	67	1.15	10.40	11.55	10.28	87.8	
Q3809-12	SW-9	68	1.13	10.29	11.42	9.22	78.6	
Q3809-13	SW-10	69	1.17	10.49	11.66	9.6	80.4	
Q3809-14	B-4	70	1.18	10.82	12.00	10.82	89.1	
Q3810-01	BP Dirt Sample	71	1.19	10.22	11.41	10.93	95.3	
Q3812-01	OR-02-120825	73	1.12	11.10	12.22	11.26	91.4	
Q3812-02	OR-02-120825-E2	74	1.19	10.62	11.81	10.84	90.9	

$$\% \text{ Solid} = \frac{(C-A) * 100}{(B-A)}$$

WORKLIST(Hardcopy Internal Chain)

VB 138141

WorkList Name : %1-120825 **WorkList ID :** 193511 **Department :** Wet-Chemistry **Date :** 12-08-2025 08:32:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3789-05	SVOC-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3789-06	PEST-GPC-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3789-07	PEST-GPC-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3789-08	SVOC-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3789-09	PEST-GPC2-BLANK	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3789-10	PEST -GPC2-BLANK-SPIKE	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3790-01	304 FURMAN SOIL	Solid	Percent Solids	Cool 4 deg C	ALLI03	A11	11/28/2025	Chemtech -SO
Q3790-03	304 FURMAN SOIL	Solid	Percent Solids	Cool 4 deg C	TULL02	D31	12/05/2025	Chemtech -SO
Q3790-04	304 FURMAN SOIL-TPH-1	Solid	Percent Solids	Cool 4 deg C	TULL02	D31	12/05/2025	Chemtech -SO
Q3790-05	304 FURMAN SOIL-TPH-2	Solid	Percent Solids	Cool 4 deg C	TULL02	D31	12/05/2025	Chemtech -SO
Q3790-06	304 FURMAN SOIL-TPH-3	Solid	Percent Solids	Cool 4 deg C	TULL02	D31	12/05/2025	Chemtech -SO
Q3795-01	72-11966	Solid	Percent Solids	Cool 4 deg C	TULL02	D31	12/05/2025	Chemtech -SO
Q3795-02	72-11966-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3795-03	72-11966-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3795-05	RBR 200059	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3795-06	RBR-200059-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3795-07	RBR-200059-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3800-01	ETGI-288	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3800-02	COMP#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3800-03	CONP#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-01	SOIL#1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO

Date/Time 12/08/25 15:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 12/08/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB138141

WorkList Name : %1-120825 **WorkList ID :** 193511 **Department :** Wet-Chemistry **Date :** 12-08-2025 08:32:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3801-02	SOIL#1-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-03	SOIL-1-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-04	SOIL#1-EPH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-05	SOIL#1-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-06	SOIL#2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-07	SOIL#2-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-08	SOIL#2-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-09	SOIL#2-EPH-1	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3801-10	SOIL#2-EPH-2	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3802-01	12-5-2025-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D11	12/05/2025	Chemtech -SO
Q3802-02	12-5-2025-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	12/05/2025	Chemtech -SO
Q3803-01	CHASE-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	D61	12/05/2025	Chemtech -SO
Q3803-02	CHASE-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-03	CHASE-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-04	CHASE-D	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-05	CHASE-E	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-06	CHASE-F	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-07	CHASE-G	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-08	CHASE-H	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-09	CHASE-I	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-10	CHASE-J	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO

Date/Time 12/08/25 15:00

Raw Sample Received by: SA WPC

Raw Sample Relinquished by:

Date/Time 12/08/25 17:30

Raw Sample Received by:

Raw Sample Relinquished by: SA WPC

WORKLIST(Hardcopy Internal Chain)

VB738141

WorkList Name : %1-120825 **WorkList ID :** 193511 **Department :** Wet-Chemistry **Date :** 12-08-2025 08:32:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3803-11	CHASE-K	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-12	CHASE-L	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-13	CHASE-M	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3803-14	CHASE-N	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3804-01	120325-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A42	12/05/2025	Chemtech -SO
Q3804-02	120325-A	Solid	Percent Solids	Cool 4 deg C	PSEG03	A23	12/05/2025	Chemtech -SO
Q3804-03	120325-B	Solid	Percent Solids	Cool 4 deg C	PSEG03	A23	12/05/2025	Chemtech -SO
Q3804-04	120325-C	Solid	Percent Solids	Cool 4 deg C	PSEG03	A23	12/05/2025	Chemtech -SO
Q3805-02	91725	Solid	Percent Solids	Cool 4 deg C	PSEG03	A23	12/05/2025	Chemtech -SO
Q3806-01	TR-01-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG03	A31	12/05/2025	Chemtech -SO
Q3806-02	TR-01-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D12	12/05/2025	Chemtech -SO
Q3806-03	TR-01-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A11	12/05/2025	Chemtech -SO
Q3806-04	TR-05-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D12	12/05/2025	Chemtech -SO
Q3806-05	TR-05-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	D12	12/05/2025	Chemtech -SO
Q3806-06	TR-05-12-5-2025	Solid	Percent Solids	Cool 4 deg C	PSEG05	A11	12/05/2025	Chemtech -SO
Q3809-01	SW-1	Solid	Percent Solids	Cool 4 deg C	PSEG05	D12	12/05/2025	Chemtech -SO
Q3809-02	SW-2	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-03	B-1	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-04	SW-3	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-05	SW-4	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-06	B-2	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO

Date/Time 12/08/25 13:00

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 12/08/25 17:30

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

WorkList Name : %1-120825 **WorkList ID :** 193511 **Department :** Wet-Chemistry VB138141 **Date :** 12-08-2025 08:32:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q3809-07	B-3	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-08	SW-5	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-09	SW-6	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-10	SW-7	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-11	SW-8	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-12	SW-9	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-13	SW-10	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3809-14	B-4	Solid	Percent Solids	Cool 4 deg C	TSLA01	A11	12/05/2025	Chemtech -SO
Q3810-01	BP Dirt Sample	Solid	Percent Solids	Cool 4 deg C	DALT01	D51	12/01/2025	Chemtech -SO
Q3812-01	OR-02-120825	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	12/08/2025	Chemtech -SO
Q3812-02	OR-02-120825-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D41	12/08/2025	Chemtech -SO

Date/Time 12/08/25 15:00
Raw Sample Received by: [signature] WC1
Raw Sample Relinquished by: [signature]

Date/Time 12/08/25 17:30
Raw Sample Received by: [signature]
Raw Sample Relinquished by: [signature] WC1

SHIPPING DOCUMENTS

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

Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
New Hampshire	255425
New Jersey	20012
New York	11376
Pennsylvania	68-00548
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
Virginia	460312

Alliance TECHNICAL GROUP

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

LOGIN REPORT/SAMPLE TRANSFER

Order ID :	Q3790 TULL02	**Order Date :**	12/5/2025 10:01:00 AM	**Project Mgr :**	
Client Name :	Tully Construction Co., Inc.	**Project Name :**	MTA 26 Stations - Pierrepoı	**Report Type :**	Level 1
Client Contact :	Dean Devoe	**Receive DateTime :**	12/5/2025 2:00:00 PM	**EDD Type :**	Excel NY 375
Invoice Name :	Tully Construction Co., Inc.	**Purchase Order :**		**Hard Copy Date :**	
Invoice Contact :	Dean Devoe			**Date Signoff :**	

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD		FAX DATE	DUE DATES
Q3790-03	304 FURMAN SOIL	Solid	12/05/2025	07:25						
					VOC-TCLVOA-10		8260D	5 Bus. Days		

Relinguished By : [signature]
Date / Time : 12/5/25 1636

Received By : [signature]
Date / Time : 12/08/25 8:00 NJ #6 R22

Storage Area : VOA Refridgerator Room