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

Cover Page

Order ID : Q2818

Project ID : Reserve Turgyan Farms

Client : Earth Engineering Inc.

Lab Sample Number	Client Sample Number
Q2818-01	B-2-5-1
Q2818-02	B-3-5-2
Q2818-04	B-2-5-1
Q2818-05	B-3-5-2

I certify that the data package is in compliance with the terms and conditions of the contract,both technically and for completeness, for other than the conditions detailed above. Release of the data contained in this hard copy data package has been authorized by the laboratory manager or his designee, as verified by the following signature.

Signature : _____

Date: 8/21/2025

NYDOH CERTIFICATION NO - 11376

NJDEP CERTIFICATION NO - 20012

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CASE NARRATIVE

Earth Engineering Inc.
Project Name: Reserve Turgyan Farms
Project # N/A
Order ID # Q2818
Test Name: Cyanide

A. Number of Samples and Date of Receipt:
2 Soil sample was received on 08/11/2025.

B. Parameters:
According to the Chain of Custody document, the following analyses were requested: Cyanide. This data package contains results for Cyanide.

C. Analytical Techniques:
The analysis of Cyanide was based on method 9012B.

D. QA/ QC Samples:
The Holding Times were met for all analysis.
The Blank Spike met requirements for all compounds.
The Duplicate analysis met criteria for all compounds.
The Matrix Spike analysis met criteria for all compounds.
The Matrix Spike Duplicate analysis met criteria for all compounds.
The Blank analysis did not indicate the presence of lab contamination.
The Calibration met the requirements.

E. Additional Comments:
The temperature of the samples at the time of receipt was 6.1°C.

I certify that the data package is in compliance with the terms and conditions of the contract, both technically and for completeness, for other than the conditions detailed above. The laboratory manager or his designee, as verified by the following signature has authorized release of the data contained in this hard copy data package.

Signature_____

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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APPENDIX A

QA REVIEW GENERAL DOCUMENTATION

Project #: **Q2818**

	Completed
For thorough review, the report must have the following:	
GENERAL:	
Are all original paperwork present (chain of custody, record of communication,airbill, sample management lab chronicle, login page)	✓
Check chain-of-custody for proper relinquish/return of samples	✓
Is the chain of custody signed and complete	✓
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	✓
Collect information for each project id from server. Were all requirements followed	✓
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	✓
Do lab numbers and client Ids on cover page agree with the Chain of Custody	✓
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	✓
Do requested analyses on Chain of Custody agree with the log-in page	✓
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	✓
Were the samples received within hold time	✓
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	✓
ANALYTICAL:	
Was method requirement followed?	✓
Was client requirement followed?	✓
Does the case narrative summarize all QC failure?	✓
All runlogs and manual integration are reviewed for requirements	✓
All manual calculations and /or hand notations verified	✓

QA Review Signature: **KETAN PATEL** **Date:** **08/21/2025**

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LAB CHRONICLE

OrderID:	Q2818	**OrderDate:**	8/11/2025 11:57:00 AM
Client:	Earth Engineering Inc.	**Project:**	Reserve Turgyan Farms
Contact:	Frank Dougherty, LSRP	**Location:**	J21

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q2818-01	**B-2-5-1**	**SOIL**			**08/11/25 08:50**			**08/11/25**
			Cyanide	9012B		08/11/25	08/11/25 15:00	
			Hexavalent Chromium	7196A		08/19/25	08/19/25 12:44	
Q2818-02	**B-3-5-2**	**SOIL**			**08/11/25 09:35**			**08/11/25**
			Cyanide	9012B		08/11/25	08/11/25 15:05	
			Hexavalent Chromium	7196A		08/19/25	08/19/25 12:45	

SAMPLE DATA

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Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	08/11/25 08:50
Project:	Reserve Turgyan Farms	Date Received:	08/11/25
Client Sample ID:	B-2-5-1	SDG No.:	Q2818
Lab Sample ID:	Q2818-01	Matrix:	SOIL
		% Solid:	87.5

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.40		1	0.048	0.28	mg/Kg	08/11/25 12:45	08/11/25 15:00	9012B
Hexavalent Chromium	0.079	U	1	0.079	0.45	mg/Kg	08/19/25 09:00	08/19/25 12:44	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

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Report of Analysis

Client:	Earth Engineering Inc.	Date Collected:	08/11/25 09:35
Project:	Reserve Turgyan Farms	Date Received:	08/11/25
Client Sample ID:	B-3-5-2	SDG No.:	Q2818
Lab Sample ID:	Q2818-02	Matrix:	SOIL
		% Solid:	89.1

Parameter	Conc.	Qua.	DF	MDL	LOQ / CRQL	Units(Dry Weight)	Prep Date	Date Ana.	Ana Met.
Cyanide	0.33		1	0.045	0.27	mg/Kg	08/11/25 12:45	08/11/25 15:05	9012B
Hexavalent Chromium	0.078	U	1	0.078	0.45	mg/Kg	08/19/25 09:00	08/19/25 12:45	7196A

Comments:

U = Not Detected
LOQ = Limit of Quantitation
MDL = Method Detection Limit
LOD = Limit of Detection
D = Dilution
Q = indicates LCS control criteria did not meet requirements
H = Sample Analysis Out Of Hold Time

J = Estimated Value
B = Analyte Found in Associated Method Blank
* = indicates the duplicate analysis is not within control limits.
E = Indicates the reported value is estimated because of the presence of interference.
OR = Over Range
N =Spiked sample recovery not within control limits

QC RESULT SUMMARY

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Initial and Continuing Calibration Verification

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **RunNo.:** LB136777

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID:	**ICV1**						
Cyanide		mg/L	0.096	0.099	97	90-110	08/11/2025
Sample ID:	**CCV1**						
Cyanide		mg/L	0.25	0.25	100	90-110	08/11/2025
Sample ID:	**CCV2**						
Cyanide		mg/L	0.25	0.25	100	90-110	08/11/2025

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Initial and Continuing Calibration Verification

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **RunNo.:** LB136872

Analyte	Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: ICV						
Hexavalent Chromium	mg/L	0.499	0.5	100	90-110	08/19/2025
Sample ID: CCV1						
Hexavalent Chromium	mg/L	0.496	0.5	99	90-110	08/19/2025
Sample ID: CCV2						
Hexavalent Chromium	mg/L	0.487	0.5	97	90-110	08/19/2025
Sample ID: CCV3						
Hexavalent Chromium	mg/L	0.493	0.5	99	90-110	08/19/2025

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Initial and Continuing Calibration Blank Summary

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **RunNo.:** LB136777

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID:	ICB1							
Cyanide		mg/L	0.0014	0.0025	J	0.00096	0.005	08/11/2025
Sample ID:	CCB1							
Cyanide		mg/L	0.0016	0.0025	J	0.00096	0.005	08/11/2025
Sample ID:	CCB2							
Cyanide		mg/L	0.0014	0.0025	J	0.00096	0.005	08/11/2025

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Initial and Continuing Calibration Blank Summary

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **RunNo.:** LB136872

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: ICB							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/19/2025
Sample ID: CCB1							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/19/2025
Sample ID: CCB2							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/19/2025
Sample ID: CCB3							
Hexavalent Chromium	mg/L	< 0.0050	0.0050	U	0.0029	0.01	08/19/2025

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Preparation Blank Summary

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: PB169197BL							
Cyanide	mg/Kg	0.057	0.1250	J	0.042	0.25	08/11/2025
Sample ID: PB169305BL							
Hexavalent Chromium	mg/Kg	< 0.2000	0.2000	U	0.07	0.4	08/19/2025

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Matrix Spike Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2818-01
Client ID: B-2-5-1MS
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.40		0.40		2.2	1	91		08/11/2025

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Matrix Spike Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2818-01
Client ID: B-2-5-1MSD
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Cyanide	mg/Kg	75-125	2.50		0.40		2.3	1	91		08/11/2025

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Matrix Spike Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2888-01
Client ID: VNJ-210MS
Percent Solids for Spike Sample: 94.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	1280		0.073	U	1350	40	95		08/19/2025

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Matrix Spike Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2888-01
Client ID: VNJ-210MS
Percent Solids for Spike Sample: 94.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	85-115	38.3		0.073	U	42.1	2	91		08/19/2025

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Matrix Spike Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2888-01
Client ID: VNJ-210MS
Percent Solids for Spike Sample: 94.9

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	75-125	33.4		0.073	U	42.1	2	79		08/19/2025

284 Sheffield Street, Mountainside, New Jersey 07092, Phone : 908 789 8900,
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Duplicate Sample Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2818-01
Client ID: B-2-5-1DUP
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	0.40		0.39		1	3		08/11/2025

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Duplicate Sample Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2818-01
Client ID: B-2-5-1MSD
Percent Solids for Spike Sample: 87.5

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Cyanide	mg/Kg	+/-20	2.40		2.50		1	4		08/11/2025

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Fax : 908 789 8922

Duplicate Sample Summary

Client: Earth Engineering Inc.
SDG No.: Q2818
Project: Reserve Turgyan Farms
Sample ID: Q2888-01
Client ID: VNJ-210DUP
Percent Solids for Spike Sample: 94.9

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date
Hexavalent Chromium	mg/Kg	+/-20	0.073	U	0.072	U	1	0		08/19/2025

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Laboratory Control Sample Summary

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **Run No.:** LB136777

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169197BS								
Cyanide	mg/Kg	5	4.80		96	1	85-115	08/11/2025

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

Laboratory Control Sample Summary

Client: Earth Engineering Inc. **SDG No.:** Q2818

Project: Reserve Turgyan Farms **Run No.:** LB136872

Analyte	Units	True Value	Result	Conc. Qualifier	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID PB169305BS								
Hexavalent Chromium	mg/Kg	20	19.7		98	1	84-110	08/19/2025

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RAW DATA

Lb1

Test results | Aquakem 7.2AQ1 | Page: 1

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM | Instrument ID : Konelab

8/11/2025 15:25

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1	95.754	0.0	0.079	
ICB1	1.425	0.0	0.001	
CCV1	249.754	0.0	0.206	
CCB1	1.564	0.0	0.001	
PB169197BL	1.137	0.0	0.001	
PB169197BS	96.322	0.0	0.079	
Q2818-01	7.017	0.0	0.006	
Q2818-01DUP	7.014	0.0	0.006	
Q2818-01MS	42.762	0.0	0.035	
Q2818-01MSD	44.475	0.0	0.036	
Q2818-02	6.045	0.0	0.005	
CCV2	254.421	0.0	0.209	
CCB2	1.351	0.0	0.001	

N	13
Mean	62.234
SD	90.8999
CV%	146.06

Aquakem v. 7.2AQ1
Results from time period:
Mon Aug 11 14:52:58 2025
Mon Aug 11 15:24:46 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	1.6181	µg/l	8/11/2025 10:04:52	
5.0PPBCN	A	Total CN	P	5.6869	µg/l	8/11/2025 10:04:53	
10PPBCN	A	Total CN	P	10.3866	µg/l	8/11/2025 10:04:54	
50PPBCN	A	Total CN	P	48.0238	µg/l	8/11/2025 10:04:55	
100PPBCN	A	Total CN	P	100.1562	µg/l	8/11/2025 10:04:56	
250PPBCN	A	Total CN	P	247.9532	µg/l	8/11/2025 10:04:57	
500PPBCN	A	Total CN	P	501.1752	µg/l	8/11/2025 10:04:58	
ICV1	S	Total CN	P	95.7537	µg/l	8/11/2025 14:52:58	
ICB1	S	Total CN	P	1.4252	µg/l	8/11/2025 14:53:00	
CCV1	S	Total CN	P	249.7542	µg/l	8/11/2025 14:53:03	
CCB1	S	Total CN	P	1.5637	µg/l	8/11/2025 14:53:04	
PB169197BL	S	Total CN	P	1.1374	µg/l	8/11/2025 14:53:06	
PB169197BS	S	Total CN	P	96.3218	µg/l	8/11/2025 15:00:30	
Q2818-01	S	Total CN	P	7.0166	µg/l	8/11/2025 15:00:32	
Q2818-01DUP	S	Total CN	P	7.014	µg/l	8/11/2025 15:00:33	
Q2818-01MS	S	Total CN	P	42.7625	µg/l	8/11/2025 15:00:37	
Q2818-01MSD	S	Total CN	P	44.4753	µg/l	8/11/2025 15:00:38	
Q2818-02	S	Total CN	P	6.0454	µg/l	8/11/2025 15:05:45	
CCV2	S	Total CN	P	254.4214	µg/l	8/11/2025 15:05:47	
CCB2	S	Total CN	P	1.3506	µg/l	8/11/2025 15:05:50	

Calibration results Aquakem 7.2AQ1 Page:

Alliance Technical Group
284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

8/11/2025 11:15

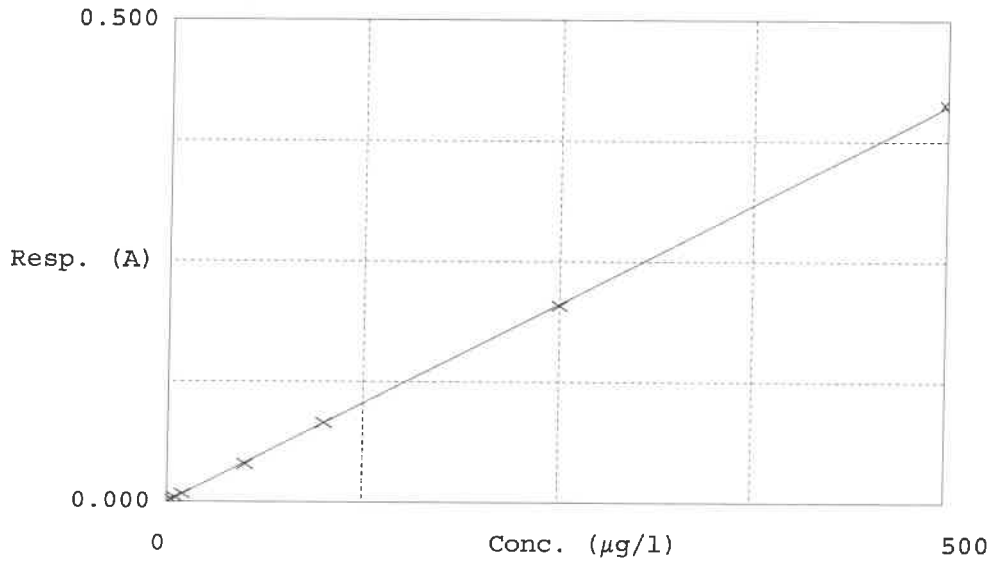
Test Total CN

Accepted 8/11/2025 11:15

Factor 1214
Bias 0

Coeff. of det. 0.999938

Errors



	Calibrator	Response	Calc. con.	Conc.	Errors
1	0.0PPBCN	0.001	1.6181	0.0000	-
2	5.0PPBCN	0.004	5.6869	5.0000	13.7
3	10PPBCN	0.008	10.3866	10.0000	3.9
4	50PPBCN	0.039	48.0238	50.0000	-4.0
5	100PPBCN	0.082	100.1562	100.0000	0.2
6	250PPBCN	0.204	247.9532	250.0000	-0.8
7	500PPBCN	0.413	501.1752	500.0000	0.2

Re

08/11/2025
RM

Reviewed By:jignesh
On:8/19/2025 2:51:17 PM
Inst Id :SPECTROPHOTOME

Analytical Summary Report

Analysis Method: ~~7196A~~

Parameter: ~~Hexavalent Chromium~~

Run Number: ~~LB136872~~

ANALYST: Eman

SUPERVISOR REVIEW BY: jignesh

pH Meter ID: pH Meter-1

Reagent/Standard	Lot/Log #
5N sulfuric acid	WP112831
HNO3 Hex-Chrome, 5M	WP112830
HEX LOD STD, 0.005PPM	WP114312
Hexchrome Cleaning Solution	WP114310
Hex LOQ Std, 0.01PPM	WP114313

Intercept: 0.001 **Slope:** 0.7682 **Regression:** 0.999996

Seq	Lab ID	True Value (mg/l)	DF	Initial Vol (ml)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at 540nm		Absorbance Difference	Result (mg/L)	%D	Anal Date	Anal Time
								Backgrnd	Color					
1	CAL1	0	1	100	100	7.52	2.10	0.000	0.000	0.000	-0.00		08/19/2025	12:30
2	CAL2	0.01	1	100	100	7.35	1.86	0.000	0.008	0.008	0.009	-10	08/19/2025	12:31
3	CAL3	0.025	1	100	100	7.65	2.24	0.000	0.021	0.021	0.026	4	08/19/2025	12:32
4	CAL4	0.05	1	100	100	7.46	2.45	0.000	0.039	0.039	0.049	-2	08/19/2025	12:33
5	CAL5	0.1	1	100	100	7.29	1.65	0.000	0.079	0.079	0.101	1	08/19/2025	12:34
6	CAL6	0.5	1	100	100	7.71	1.91	0.000	0.385	0.385	0.499	-0.2	08/19/2025	12:35
7	CAL7	1	1	100	100	7.37	2.15	0.000	0.769	0.769	0.999	-0.1	08/19/2025	12:36

Analytical Summary Report

Analysis Method: 7196A
ANALYST:Eman
Parameter: Hexavalent Chromium
SUPERVISOR REVIEW BY:jignesh
Run Number: LB136872
pH Meter ID:pH Meter-1

Seq	Lab ID	True Value	DF	Initial Vol (ml/gm)	Final Vol (ml)	pH HN03	pH H2SO4	Absorb.at540nm		Absorbance Difference	Intermediate Result (mg/L)	Anal Date	Anal Time
								Backgrnd	Color				
1	ICV	0.5	1	100	100	7.48	1.67	0.000	0.384	0.384	0.499	08/19/2025	12:37
2	ICB		1	100	100	7.61	1.74	0.000	0.000	0.000	-0.001	08/19/2025	12:38
3	CCV1	0.5	1	100	100	7.58	2.36	0.000	0.382	0.382	0.496	08/19/2025	12:39
4	CCB1		1	100	100	7.47	2.29	0.000	0.001	0.001	0.000	08/19/2025	12:40
5	RL Check	0.01	1	100	100	7.69	2.09	0.000	0.009	0.009	0.010	08/19/2025	12:41
6	PB169305BL		1	2.50	100	7.51	1.89	0.000	0.000	0.000	-0.001	08/19/2025	12:42
7	PB169305BS	20	1	2.50	100	7.46	1.75	0.000	0.379	0.379	0.492	08/19/2025	12:43
8	Q2818-01		1	2.52	100	7.43	1.99	0.035	0.035	0.000	-0.001	08/19/2025	12:44
9	Q2818-02		1	2.51	100	7.60	2.10	0.036	0.037	0.001	0.000	08/19/2025	12:45
10	Q2888-01		1	2.54	100	7.67	2.15	0.000	0.000	0.000	-0.001	08/19/2025	12:46
11	Q2888-01DU		1	2.57	100	7.46	2.35	0.000	0.000	0.000	-0.001	08/19/2025	12:47
12	Q2888-01MS	40	2	2.55	100	7.38	2.31	0.000	0.311	0.311	0.404	08/19/2025	12:48
13	Q2888-01MS	1284	40	2.53	100	7.62	2.29	0.000	0.592	0.592	0.769	08/19/2025	12:49
14	Q2888-01MS	40	2	2.57	100	7.39	2.32	0.000	0.360	0.360	0.467	08/19/2025	12:50
15	Q2893-01		1	2.50	100	7.45	2.41	0.000	0.005	0.005	0.005	08/19/2025	12:51
16	CCV2	0.5	1	100	100	7.51	1.96	0.000	0.375	0.375	0.487	08/19/2025	12:52
17	CCB2		1	100	100	7.56	1.87	0.000	0.000	0.000	-0.001	08/19/2025	12:53
18	Q2893-02		1	2.50	100	7.68	1.65	0.000	0.009	0.009	0.010	08/19/2025	12:54
19	CCV3	0.5	1	100	100	7.62	2.74	0.000	0.380	0.380	0.493	08/19/2025	12:55
20	CCB3		1	100	100	7.71	1.95	0.000	0.001	0.001	0.000	08/19/2025	12:56

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB169197

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

SDG No : N/A

Start Digest Date: 08/11/2025 **Time :** 12:45 **Temp :** 123 °C

Matrix : SOIL

End Digest Date: 08/11/2025 **Time :** 14:15 **Temp :** 126 °C

Pippete ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1 **Digestion tube ID :** M5595 **Block Thermometer ID :** WC CYANIDE

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

Weigh By : JP **pH Meter ID :** N/A **Supervisor Signature:** [signature]

Standared Name	MLS USED	STD REF. # FROM LOG
LCSS	1.0ML	WP113838
MS/MSD SPIKE SOL.	0.40ML	WP113837
PBS003	50.0ML	W3112
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
50% v/v H2SO4	5.0ML	WP112826
51% w/v MgCL2	2.0ML	WP112827
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	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	N/A
S5.0	S5.0	N/A	N/A
S10.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	S500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB169168
ICB	ICB	N/A	N/A
CCV	CCV	N/A	N/A
CCB	CCB	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB169168
LOWSTD	LOWSTD	N/A	AS PER PB169168

Extraction Conformance/Non-Conformance Comments:

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
08/11/2025 14:25	JP / WC	RM (WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Soil/Sludge Cyanide Preparation Sheet

PB169197

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB169197BL	PBS197	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
PB169197BS	LCS197	1.00	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-01DUP	B-2-5-1DUP	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-01MS	B-2-5-1MS	1.02	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-01MSD	B-2-5-1MSD	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-01	B-2-5-1	1.01	50	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-02	B-3-5-2	1.04	50	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : cn s q2818 **WorkList ID :** 191201 **Department :** Distillation **Date :** 08-11-2025 11:58:01

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2818-01	B-2-5-1	Solid	Cyanide	Cool 4 deg C	EARTH03		08/11/2025	9012B
Q2818-02	B-3-5-2	Solid	Cyanide	Cool 4 deg C	EARTH03		08/11/2025	9012B

Date/Time 08/11/2025 12.25
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 08/11/2025 13.00
Raw Sample Received by:
Raw Sample Relinquished by:

Alliance TECHNICAL GROUP

Soil/Sludge Hexavalent Chromium Preparation Sheet

PB169305

SOP ID : M3060A,7196A-Hex.Chromium-27

SDG No : N/A

Start Digest Date: 08/19/2025 **Time :** 09:00 **Temp :** 90 °C

Matrix : SOIL

End Digest Date: 08/19/2025 **Time :** 10:00 **Temp :** 95 °C

Pippete ID : WC

If below 08/19/2025 10:30 90 c
08/19/2025 11:30 94 c

Balance ID : WC SC-7

Hood ID : HOOD#3 **Digestion tube ID :** M6054 **Block Thermometer ID :** WC-Block#1

Block ID : WC S-2, WC S-1 **Filter paper ID :** 400213 **Prep Technician Signature:** RM

Weigh By : RM **pH Meter ID :** WC pH meter-1 **Supervisor Signature:**

Standared Name	MLS USED	STD REF. # FROM LOG
PRE-DIGESTION SPIKE	2.0ML	WP113880
INSOLUBLE SPIKE	0.02GM	W2202
POST-DIGESTION SPIKE	2.0ML	WP113880
LCSS	1.0ML	WP113881
PBS003	50.ML	W3112

Chemical Used	ML/SAMPLE USED	Lot Number
MAGNESIUM CHLORIDE	0.4GM	W3152
PHOSPHATE BUFFER	0.5ML	WP112903
HEX. DIGESTION SOLN.	50.0ML	WP114057
5M HNO3	5-7ML	WP112830
5N H2SO4	1-3ML	WP112831
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	Vol(ml)	Comment
CAL1	CAL1	2.5ML	W3112
CAL2	CAL2	0.2ML	WP114309
CAL3	CAL3	0.5ML	WP114309
CAL4	CAL4	1ML	WP114309
CAL5	CAL5	0.2ML	WP113880
CAL6	CAL6	1ML	WP113880
CAL7	CAL7	2.0ML	WP113880
ICV	ICV	1ML	WP113881
ICB	ICB	2.5ML	W3112
CCV	CCV	1ML	WP113880
CCB	CCB	2.5ML	W3112

08/19/2025 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 Hexavalent Chromium Preparation Sheet

PB169305

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB169305BL	PBS305	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
PB169305BS	LCS305	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-01	B-2-5-1	2.52	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2818-02	B-3-5-2	2.51	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2888-01	VNJ-210	2.54	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2888-01DUP	VNJ-210DUP	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2888-01MSPre	VNJ-210MSPRE	2.55	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2888-01MS2Ins	VNJ-210MS2INS	2.53	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2888-01MS3Post	VNJ-210MS3POST	2.57	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2893-01	LOD-MDL-SOIL-01-QT3-2025	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A
Q2893-02	LOQ-SOIL-02-QT3-2025	2.50	100	N/A	N/A	N/A	N/A	N/A	N/A

WORKLIST(Hardcopy Internal Chain)

WorkList Name : HEX-081925 **WorkList ID :** 191348 **Department :** Distillation **Date :** 08-19-2025 08:16:47

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2818-01	B-2-5-1	Solid	Hexavalent Chromium	Cool 4 deg C	EARTH03	J21	08/11/2025	7196A
Q2818-02	B-3-5-2	Solid	Hexavalent Chromium	Cool 4 deg C	EARTH03	J21	08/11/2025	7196A
Q2888-01	VNJ-210	Solid	Hexavalent Chromium	Cool 4 deg C	PSEG03	D21	08/15/2025	7196A
Q2893-01	LOD-MDL-SOIL-01-QT3-2025	Solid	Hexavalent Chromium	NONE	ALLI03	QA Of	08/18/2025	7196A
Q2893-02	LOQ-SOIL-02-QT3-2025	Solid	Hexavalent Chromium	NONE	ALLI03	QA Of	08/18/2025	7196A

Date/Time 08/19/2025 08:25
Raw Sample Received by: RM CWP
Raw Sample Relinquished by: [signature] (CWP)

Date/Time 08/19/2025 10:45
Raw Sample Received by: [signature] (CWP)
Raw Sample Relinquished by: RM (CWP)

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 # LB136777

Review By	rubina	Review On	8/12/2025 8:10:38 AM
Supervise By	Sohil	Supervise On	8/12/2025 3:09:49 PM
SubDirectory	LB136777	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP114243,WP114244,WP114245,WP114246,WP114247,WP114248,WP114249
ICV Standard	W3012
CCV Standard	WP114244
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113838
Chk Standard	WP112643,WP112900,WP114251

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	08/11/25 10:04		rubina	OK
2	5.0PPBCN	5.0PPBCN	CAL2	08/11/25 10:04		rubina	OK
3	10PPBCN	10PPBCN	CAL3	08/11/25 10:04		rubina	OK
4	50PPBCN	50PPBCN	CAL4	08/11/25 10:04		rubina	OK
5	100PPBCN	100PPBCN	CAL5	08/11/25 10:04		rubina	OK
6	250PPBCN	250PPBCN	CAL6	08/11/25 10:04		rubina	OK
7	500PPBCN	500PPBCN	CAL7	08/11/25 10:04		rubina	OK
8	ICV1	ICV1	ICV	08/11/25 14:52		rubina	OK
9	ICB1	ICB1	ICB	08/11/25 14:53		rubina	OK
10	CCV1	CCV1	CCV	08/11/25 14:53		rubina	OK
11	CCB1	CCB1	CCB	08/11/25 14:53		rubina	OK
12	PB169197BL	PB169197BL	MB	08/11/25 14:53		rubina	OK
13	PB169197BS	PB169197BS	LCS	08/11/25 15:00		rubina	OK
14	Q2818-01	B-2-5-1	SAM	08/11/25 15:00		rubina	OK
15	Q2818-01DUP	B-2-5-1DUP	DUP	08/11/25 15:00		rubina	OK
16	Q2818-01MS	B-2-5-1MS	MS	08/11/25 15:00		rubina	OK
17	Q2818-01MSD	B-2-5-1MSD	MSD	08/11/25 15:00		rubina	OK
18	Q2818-02	B-3-5-2	SAM	08/11/25 15:05		rubina	OK

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Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB136777

Review By	rubina	Review On	8/12/2025 8:10:38 AM
Supervise By	Sohil	Supervise On	8/12/2025 3:09:49 PM
SubDirectory	LB136777	Test	Cyanide

STD. NAME	STD REF.#
ICAL Standard	WP114243,WP114244,WP114245,WP114246,WP114247,WP114248,WP114249
ICV Standard	W3012
CCV Standard	WP114244
ICSA Standard	N/A
CRI Standard	N/A
LCS Standard	WP113838
Chk Standard	WP112643,WP112900,WP114251

19	CCV2	CCV2	CCV	08/11/25 15:05		rubina	OK
20	CCB2	CCB2	CCB	08/11/25 15:05		rubina	OK

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Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136872

Review By	Eman	Review On	8/19/2025 1:19:09 PM
Supervise By	jignesh	Supervise On	8/19/2025 2:51:17 PM
SubDirectory	LB136872	Test	Hexavalent Chromium

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	WP112831,WP112830,WP114312,WP114310,WP114313

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	CAL1	CAL1	CAL	08/19/25 12:30		Eman	OK
2	CAL2	CAL2	CAL	08/19/25 12:31		Eman	OK
3	CAL3	CAL3	CAL	08/19/25 12:32		Eman	OK
4	CAL4	CAL4	CAL	08/19/25 12:33		Eman	OK
5	CAL5	CAL5	CAL	08/19/25 12:34		Eman	OK
6	CAL6	CAL6	CAL	08/19/25 12:35		Eman	OK
7	CAL7	CAL7	CAL	08/19/25 12:36		Eman	OK
8	ICV	ICV	ICV	08/19/25 12:37		Eman	OK
9	ICB	ICB	ICB	08/19/25 12:38		Eman	OK
10	CCV1	CCV1	CCV	08/19/25 12:39		Eman	OK
11	CCB1	CCB1	CCB	08/19/25 12:40		Eman	OK
12	RL Check	RL Check	RL	08/19/25 12:41		Eman	OK
13	PB169305BL	PB169305BL	MB	08/19/25 12:42		Eman	OK
14	PB169305BS	PB169305BS	LCS	08/19/25 12:43		Eman	OK
15	Q2818-01	B-2-5-1	SAM	08/19/25 12:44		Eman	OK
16	Q2818-02	B-3-5-2	SAM	08/19/25 12:45		Eman	OK
17	Q2888-01	VNJ-210	SAM	08/19/25 12:46		Eman	OK
18	Q2888-01DUP	VNJ-210DUP	DUP	08/19/25 12:47		Eman	OK

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Fax : 908 789 8922

Instrument ID: SPECTROPHOTOMETER-1

Daily Analysis Runlog For Sequence/QCBatch ID # LB136872

Review By	Eman	Review On	8/19/2025 1:19:09 PM
Supervise By	jignesh	Supervise On	8/19/2025 2:51:17 PM
SubDirectory	LB136872	Test	Hexavalent Chromium

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	WP112831,WP112830,WP114312,WP114310,WP114313

19	Q2888-01MSPre	VNJ-210MS	MS	08/19/25 12:48		Eman	OK
20	Q2888-01MS2Ins	VNJ-210MS	MS	08/19/25 12:49		Eman	OK
21	Q2888-01MS3Post	VNJ-210MS	MS	08/19/25 12:50		Eman	OK
22	Q2893-01	LOD-MDL-SOIL-01-Q	SAM	08/19/25 12:51		Eman	OK
23	CCV2	CCV2	CCV	08/19/25 12:52		Eman	OK
24	CCB2	CCB2	CCB	08/19/25 12:53		Eman	OK
25	Q2893-02	LOQ-SOIL-02-QT3-20	SAM	08/19/25 12:54		Eman	OK
26	CCV3	CCV3	CCV	08/19/25 12:55		Eman	OK
27	CCB3	CCB3	CCB	08/19/25 12:56		Eman	OK

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Prep Standard - Chemical Standard Summary

Order ID : Q2818

Test : Cyanide,Hexavalent Chromium,Percent Solids

Prepbatch ID : PB169197,PB169305,

Sequence ID/Qc Batch ID: LB136777,LB136872,

Standard ID :

WP112643,WP112826,WP112827,WP112830,WP112831,WP112900,WP112903,WP113836,WP113837,WP113838,WP113880,WP113881,WP114057,WP114242,WP114243,WP114244,WP114245,WP114246,WP114247,WP114248,WP114249,WP114251,WP114309,WP114310,WP114312,WP114313,

Chemical ID :

M6041,M6151,M6158,M6162,W2202,W2651,W2652,W2668,W3012,W3019,W3112,W3113,W3139,W3152,W3163,W3168,W3203,W3206,W3214,W3224,

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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	WP112643	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 04/09/2025

FROM 138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP112826	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025

FROM 1000.00000ml of M6041 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP112827	04/25/2025	10/25/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 04/25/2025

FROM 500.00000ml of W3112 + 510.00000gram of W3152 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1836	HNO3 Hex-Chrome, 5M	WP112830	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025

FROM 320.00000ml of M6158 + 680.00000ml of W3112 = Final Quantity: 1000.000 ml

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Fax : 908 789 8922

Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
126	5N sulfuric acid	WP112831	04/25/2025	10/25/2025	Rubina Mughal	None	None	Iwona Zarych 04/25/2025

FROM 140.00000ml of M6041 + 860.00000ml of W3112 = Final Quantity: 1.000 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
607	PYRIDINE-BARBITURIC ACID	WP112900	05/01/2025	08/18/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	Glass Pipette-A	Iwona Zarych 05/01/2025

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
190	HEX CHROME PHOSPHATE BUFFER	WP112903	05/01/2025	11/01/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 05/01/2025

FROM 0.84500L of W3112 + 68.04000gram of W3206 + 87.09000gram of W3168 = Final Quantity: 1.000 L

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

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP113837	07/08/2025	11/30/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 07/08/2025

FROM 1.00000ml of W3214 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml

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
1993	HEXAVALENTCHROMIUM STOCK STD 1, 50PPM	WP113880	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/10/2025

FROM 0.14140gram of W2651 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1994	HEXAVALENTCHROMIUM STOCK STD 2, 50PPM	WP113881	07/10/2025	01/10/2026	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 07/10/2025

FROM 0.14140gram of W2652 + 1000.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
148	hexchrome digestion fluid	WP114057	07/24/2025	08/24/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Iwona Zarych 07/24/2025

FROM 120.00000gram of W3163 + 4.00000L of W3112 + 80.00000gram of W3113 = Final Quantity: 4000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3456	Cyanide Intermediate Working Std, 5PPM	WP114242	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 0.25000ml of W3214 + 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	WP114243	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 45.00000ml of WP113836 + 5.00000ml of WP114242 = 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	WP114244	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 2.50000ml of WP114242 + 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	WP114245	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 1.00000ml of WP114242 + 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	WP114246	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 0.50000ml of WP114242 + 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	WP114247	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 1.00000ml of WP114243 + 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	WP114248	08/11/2025	08/12/2025	Rubina Mughal	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 08/11/2025

FROM 0.50000ml of WP114243 + 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	WP114249	08/11/2025	08/12/2025	Rubina Mughal	None	None	Iwona Zarych 08/11/2025

FROM 50.00000ml of WP113836 = Final Quantity: 50.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP114251	08/11/2025	08/12/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 08/11/2025

FROM 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1103	HEX CHROME INTERMEDIATE STD SOURCE 1 (5PPM)	WP114309	08/19/2025	08/20/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 08/19/2025

FROM 9.00000ml of W3112 + 1.00000ml of WP113880 = Final Quantity: 10.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3354	Hexchrome Cleaning Solution	WP114310	08/19/2025	11/27/2025	Rubina Mughal	None	None	Jignesh Parikh 08/19/2025

FROM 182.00000ml of M6151 + 727.00000ml of W3112 + 91.00000ml of M6162 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1986	HEX LOD STD, 0.005PPM	WP114312	08/19/2025	08/20/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 08/19/2025

FROM 99.90000ml of W3112 + 0.10000ml of WP114309 = Final Quantity: 100.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3731	Hex LOQ Std, 0.01PPM	WP114313	08/19/2025	08/20/2025	Eman Mughal	None	WETCHEM_PIPETTE_3 (WC)	Jignesh Parikh 08/19/2025

FROM 99.80000ml of W3112 + 0.20000ml of WP114309 = Final Quantity: 100.000 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-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	08/16/2024 / mohan	08/16/2024 / mohan	M6041

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	09/09/2025	03/10/2025 / Eman	02/02/2025 / Sagar	M6158

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24H0162012	11/27/2025	05/27/2025 / Sagar	04/27/2025 / Sagar	M6162

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA14125-36 / LEAD (II) CHROMATE, ACS, 500G	U19B018	01/23/2027	01/23/2017 / apatel	01/23/2017 / apatel	W2202

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	AA13450-36 / Potassium Dichromate, 500g(NEW)	T15F019	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2651

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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.	P188-500 / Potassium Dichromate, 500g(new-2nd lot)	194664	01/24/2030	01/24/2020 / apatel	01/24/2020 / apatel	W2652

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	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2025	01/08/2025 / Iwona	02/20/2020 / Iwona	W3012

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 #
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.	01237-10KG / Megnasium Chloride Hexahydrate ACS 10KG	002126-2019-201	11/25/2029	11/25/2024 / Iwona	11/25/2024 / Iwona	W3152

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-SX0395-3 / SODIUM CARBONATE ANHYDR 2.5KG	24E3156178	09/30/2027	12/10/2024 / Iwona	12/10/2024 / Iwona	W3163

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3252-1 / POTAS PHOSPHATE, DIBASIC PWD, ACS, 500G	24H0856239	04/19/2028	01/03/2025 / Iwona	01/03/2025 / Iwona	W3168

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.	J3246-1 / POTAS PHOSPHATE, MONO, CRYS, ACS, 500G	MKCX1379	01/31/2029	04/29/2025 / Iwona	04/29/2025 / Iwona	W3206

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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.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1505H73	11/30/2025	05/21/2025 / Iwona	05/21/2025 / Iwona	W3214

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

Alfa Aesar

Certificate of analysis

Product No.	14125
Product:	Lead(II) chromate, ACS, 98%
Lot No.:	U19B018

Test	Limits	Results
Assay	98.0 % min	99.3 %
Soluble matter	0.15 % max	< 0.02 %
Carbon compounds	0.01 % max	< 0.01 %

Traceable to NIST? Yes

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ThermoFisher SCIENTIFIC

Certificate of Analysis

Product No.: 13450

Product: Potassium dichromate, ACS, 99.0% min

Lot No.: T15F019

Test	Limits	Results
Appearance	Orange-red crystals	Orange-red crystals
Identification	To Pass	Passes
Purity	99.0 % min	99.67 %
Insoluble matter	0.005 % max	0.004 %
Loss on drying	0.05 % max	0.03 %
Chloride	0.001 % max	< 0.001 %
Sulfate	0.005 % max	< 0.005 %
Iron	0.001 % max	< 0.001 %
Calcium	0.003 % max	0.0012 %
Sodium	0.02 % max	0.0047 %

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Sigma-Aldrich.

W3019
Rec 4/3/23

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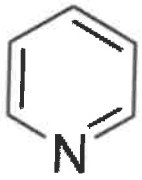
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

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

ThermoFisher SCIENTIFIC

Certificate of Analysis

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Fair Lawn, NJ 07410
201.796.7100 tel
201.796.1329 fax

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

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Catalog Number	P188	Quality Test / Release Date	08/12/2019
Lot Number	194664		
Description	POTASSIUM DICHROMATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Aug/2024
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		
Chemical Comment			

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Fine, orange-red crystals
ASSAY	%	>= 99	99.2
CALCIUM	%	<= 0.003	<0.003
CHLORIDE	%	<= 0.001	<0.001
LOSS ON DRYING @ 105 C	%	<= 0.05	<0.05
SULFATE (SO4)	%	<= 0.005	<0.005
INSOLUBLE MATTER	%	<= 0.005	0.003
IRON (Fe)	%	<= 0.001	<0.001
SODIUM (Na)	%	<= 0.02	<0.02
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST

Teresa Bailey-Wyche

Quality Assurance Specialist - Certificate of Analysis Fair Lawn

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

W3011
W3012
W3013
W3014
W3015

For ICP-MS use: dilute the ICV1 concentrate 50-fold with 1% (v/v) nitric acid; pipet 2 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 1% (v/v) nitric acid.

ICV5-0415 For the cold vapor analysis of mercury by AA: dilute the ICV5 concentrate 100-fold with 2% (v/v) nitric acid; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric acid. The ICV5 concentrate is prepared in 0.05% (w/v) $K_2Cr_2O_7$ and 5% (v/v) nitric acid.

ICV6-0400 For the analysis of cyanide: dilute the ICV6 concentrate 100-fold with Type II water; pipet 1 mL of the concentrate into a 100 mL volumetric flask and dilute to volume with Type II water. Distill this solution along with the samples before analysis. The cyanide concentrate is prepared from $K_3Fe(CN)_6$, Type II water, and 0.1 % sodium hydroxide, and will decompose rapidly if exposed to light.

NOTE: USE TYPE II WATER AND HIGH-PURITY ACIDS FOR ALL DILUTIONS.

(D) *CERTIFIED CONCENTRATIONS OF QATS ICV1, ICV5, AND ICV6 SOLUTIONS*

ICV1-1014		
Element	**Concentration (µg/L) (after 10-fold dilution)**	**Concentration (µg/L) (after 50-fold dilution)**
Al	2520	504
Sb	1010	202
As	997	199
Ba	518	104
Be	514	103
Cd	514	103
Ca	10000	2000
Cr	517	103
Co	521	104
Cu	505	101
Fe	10100	2020
Pb	1030	206
Mg	5990	1198
Mn	524	105
Ni	525	105
K	9940	1988
Se	1030	206
Ag	252	50
Na	10100	2020
Tl	1040	208
V	504	101
Zn	1010	202

ICV5-0415		ICV6-0400	
Element	**Concentration (µg/L) (after 100-fold dilution)**	**Analyte**	**Concentration (µg/L) (after 100-fold dilution)**
Hg	4.0	**CN^-**	99

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

M 6041-46
MS

avantor™ | J.T.Baker®

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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

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

For Laboratory,Research,or Manufacturing Use

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

R-02102/2025

M-6158

Material No.: 9606-03
Batch No.: 24D1062002
Manufactured Date: 2024-03-26
Retest Date: 2029-03-25
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 - 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities - Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities - Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities - Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities - Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities - Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities - Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24D1062002

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

m-5162

R. Date :- 04/27/2025

Material No.: 9606-03
Batch No.: 24H0162012
Manufactured Date: 2024-06-28
Retest Date: 2029-06-27
Revision No.: 0

Certificate of Analysis

Test	Specification	Result
Assay (HNO_3)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	< 1 ppm
Chloride (Cl)	≤ 0.08 ppm	0.03 ppm
Phosphate (PO_4)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO_4)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	0.1 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	0.1 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 1 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 1 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 1.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities - Potassium (K)	≤ 50 ppb	< 1 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	1 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Sodium (Na)	≤ 150.0 ppb	< 1.0 ppb
Trace Impurities - Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities - Tantalum (Ta)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Thallium (Tl)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count - 0.5 µm and greater	≤ 60 par/ml	13 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	5 par/ml

>>> Continued on page 3 >>>

Nitric Acid 69%
CMOS

avantor™ | J.T.Baker®

Material No.: 9606-03
Batch No.: 24H0162012

Test	Specification	Result

For Microelectronic Use

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

Jamie Croak
Director Quality Operations, Bioscience Production

Sodium Phosphate, Monobasic, Monohydrate,
Crystal
BAKER ANALYZED® A.C.S. Reagent

(sodium dihydrogen phosphate, monohydrate)

Material No.: 3818-05
Batch No.: 0000225799
Manufactured Date: 2018/12/05
Retest Date: 2025/12/03
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay ($NaH_2PO_4 \cdot H_2O$)	98.0 - 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 - 4.5	4.3
Insoluble Matter	<= 0.01 %	< 0.01
Chloride (Cl)	<= 5 ppm	< 5
ACS - Sulfate (SO_4)	<= 0.003 %	< 0.003
Calcium (Ca)	<= 0.005 %	<0.005
Potassium (K)	<= 0.01 %	< 0.01
Heavy Metals (as Pb)	<= 0.001 %	< 0.001
Trace Impurities - Iron (Fe)	<= 0.001 %	< 0.001

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

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

Jamie Ethier
Vice President Global Quality

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

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

Order our products online **thermofisher.com/chemicals**

This document has been electronically generated and does not require a signature.

W3152 Received on 11/25/24 by IZ

Chem-Impex International, Inc.

Tel: (630) 766-2112
Fax: (630) 766-2218
E-mail: sales@chemimpex.com
Web site: www.chemimpex.com
Shipping and Correspondence:
935 Dillon Drive
Wood Dale, IL 60191
Manufacturing site:
825 Dillon Drive
Wood Dale, IL 60191

Certificate of Analysis

Catalogue Number	01237
Lot Number	002126-2019-201
Product	**Magnesium chloride hexahydrate**
	Magnesium chloride•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
Molecular Weight	203.3

Appearance	White crystals
Solubility	167 g in 100 mL water
Melting Point	~ 115 °C
Heavy Metals	4.393 ppm
Anion	Nitrate (NO_3) : < 0.001% Phosphate (PO_4) : < 5 ppm Sulfate (SO_4) : < 0.002%
Cation	Ammonium (NH_4) : < 0.002% Barium (Ba) : 0.005% Calcium (Ca) : 0.01% Iron (Fe) : 4.5 ppm Manganese (Mn) : 0.624 ppm Potassium (K) : 0.004% Sodium (Na) : 0.000003% Strontium (Sr) : 0.005%
Insoluble material	0.0021%
Assay by titration	100.83%
Grade	ACS reagent
Storage	Store at RT

Certificate of Analysis

Catalog Number: 01237 **Lot Number: 002126-2019-201**

Remarks	See material safety data sheet for additional information
	For laboratory use only

The foregoing is a copy of the Certificate of Analysis as provided by our supplier

Bala Kumar
Quality Control Manager

W3163 Rec. on 12/10/24 by IZ

Certificate of Analysis

Material	BDH9284-2.5KG
Material Description	BDH SODIUM CARB ANHYD ACS 2.5KG
Grade	U S P REAGENT (ACS GRADE)
Batch	24E3156178
Reassay Date	09/30/2027
CAS Number	497-19-8
Molecular Formula	Na2CO3
Molecular Mass	105.99
Date of Manufacture	09/01/2023
Storage	Room Temperature

Material is hygroscopic. Protect from Moisture.
Additional Product Description:

Characteristics	Specifications	Measured Values
Appearance	Fine white granular powder	Fine white granular powder
Calcium	<= 0.03 %	0.003 %
Chloride	<= 0.001 %	0.0003 %
Heavy Metals (as Pb)	<= 0.0005 %	0.0001 %
Insolubles	<= 0.01 %	0.001 %
Iron	<= 0.0005 %	0.0001 %
Loss on Heating	<= 1.0 %	0.03 %
Magnesium	<= 0.005 %	0.001 %
Phosphate	<= 0.001 %	0.001 %
Potassium	<= 0.005 %	0.003 %
Purity	>= 99.5 %	100.0 %
Silica	<= 0.005 %	0.001 %
Sulfur Compounds	<= 0.003 %	0.002 %

Extra Description: Meets Reagent Specifications for testing USP/NF monographs

Internal ID #: 710

Signature

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

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

Material	BDH9266-500G
Material Description	BDH POTASS PHOSPHAT DBSC 500GM
Grade	ACS GRADE
Batch	24H0856239
Reassay Date	04/19/2028
CAS Number	7758-11-4
Molecular Formula	K2HPO4
Molecular Mass	174.18
Date of Manufacture	04/19/2024
Storage	Room Temperature

Characteristics	Specifications	Measured Values
Appearance	Fine white crystalline powder	Fine white crystalline powder
Chloride	<= 0.003 %	0.002 %
Heavy Metals (as Pb)	<= 0.0005 %	<0.0005 %
Insolubles	<= 0.01 %	<0.01 %
Iron	<= 0.001 %	<0.001 %
Loss on Drying	<= 1.0 %	<0.5 %
Nitrogen Compounds	<= 0.001 %	<0.001 %
pH (5%, Water) @25C	8.5 - 9.6	8.8
Purity	>= 98.0 %	99.1 %
Sodium	<= 0.05 %	<0.05 %
Sulfate	<= 0.005 %	<0.002 %

CUSTOMER PART # BDH9266-500G

Internal ID #: 793

Signature

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

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

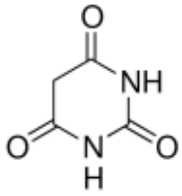
Product meets analytical specifications of the grades listed.

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

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:
Potassium phosphate monobasic - ACS reagent, ≥99.0%

KH_2PO_4

Product Number:	**P0662**
Batch Number:	**MKCX1379**
Brand:	SIGALD
CAS Number:	7778-77-0
MDL Number:	MFCD00011401
Formula:	H2KO4P
Formula Weight:	136.09 g/mol
Quality Release Date:	27 JAN 2025
Recommended Retest Date:	JAN 2029

Test	Specification	Result
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Crystals
Assay	≥ 99.0 %	99.9 %
Insoluble Matter	≤ 0.01 %	< 0.01 %
Loss on Drying At 105ºC	≤ 0.2 %	< 0.1 %
pH (c = 5%, 25 deg C)	4.1 - 4.5	4.5
Chloride Content	≤ 0.001 %	< 0.001 %
Sulfate (SO4)	≤ 0.003 %	< 0.003 %
Heavy Metals by ICP	≤ 0.001 %	< 0.001 %
Iron (Fe)	≤ 0.002 %	< 0.001 %
Sodium (Na)	≤ 0.005 %	< 0.001 %
Recommended Retest Period 4 Years	----------	----------

Larry Coers, Director
Quality Control
Milwaukee, WI US

RICCA CHEMICAL COMPANY®

W3214 Received on 5/21/25 by IZ

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: 1505H73 **Product Number:** 2543

Manufacture Date: MAY 08, 2025
Expiration Date: NOV 2025

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
Potassium Cyanide	151-50-8	ACS
Sodium Hydroxide	1310-73-2	Reagent (from 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)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

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

Ernest Mahan (05/08/2025)
Plant Manager

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

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/12/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
In Date: 08/11/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
OvenID: M OVEN#1

OVENTEMP OUT Celsius(°C): 104
Time OUT: 08:22
Out Date: 08/12/2025
Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136776

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
Q2817-01	LEAD-PAINT-CHIPS	1	1.00	1.00	2.00	2.00	100.0	LEAD-PAINT-CHIPS
Q2818-01	B-2-5-1	2	1.15	10.59	11.74	10.42	87.5	
Q2818-02	B-3-5-2	3	1.16	10.66	11.82	10.66	89.1	
Q2823-01	SU-04-081125	4	1.13	10.70	11.83	11.11	93.3	
Q2823-02	SU-04-081125-E2	5	1.14	11.10	12.24	11.34	91.9	
Q2826-01	WC1	6	1.18	10.81	11.99	10.7	88.1	
Q2827-01	TP-8	7	1.16	11.41	12.57	7.33	54.1	
Q2827-02	TP-8-EPH	8	1.16	10.21	11.37	7.68	63.9	
Q2827-03	TP-8-VOC	9	1.18	10.87	12.05	9.22	74.0	
Q2827-05	TP-9	10	1.19	10.61	11.8	9.66	79.8	
Q2827-06	TP-9-EPH	11	1.16	10.06	11.22	8.93	77.2	
Q2827-07	TP-9-VOC	12	1.15	10.48	11.63	9.59	80.5	
Q2828-01	POWDER	13	1.19	10.32	11.51	11.45	99.4	
Q2829-01	SILICA	14	1.00	1.00	2.00	2.00	100.0	silica
Q2830-01	BIN0009-DRIVEWAY-TP-SOUTH-EAST	15	1.18	10.57	11.75	10.37	86.9	
Q2830-02	BIN0009-DRIVEWAY-TP-SOUTH-EAST	16	1.18	10.03	11.21	9.83	86.2	
Q2830-03	BIN0009-DRIVEWAY-TP-WEST	17	1.18	10.74	11.92	10.37	85.6	
Q2830-04	BIN0009-DRIVEWAY-TP-WEST	18	1.15	10.59	11.74	10.21	85.6	
Q2830-05	BIN0009-DRIVEWAY-TP-WESTSIDE	19	1.19	10.46	11.65	9.66	81.0	
Q2830-06	BIN0009-DRIVEWAY-TP-WESTSIDE	20	1.15	10.94	12.09	9.36	75.0	
Q2830-07	BIN0009-DRIVEWAY-TP-EASTSIDE	21	1.18	10.48	11.66	9.22	76.7	
Q2830-08	BIN0009-DRIVEWAY-TP-EASTSIDE	22	1.19	10.66	11.85	9.67	79.5	
Q2831-01	VNJ-238	23	1.18	10.59	11.77	11.04	93.1	
Q2831-02	VNJ-238-VOC	24	1.19	10.62	11.81	11.04	92.7	

PERCENT SOLID

Supervisor: rubina
Analyst: jignesh
Date: 8/12/2025

OVENTEMP IN Celsius(°C): 108
Time IN: 17:10
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Weight Check 1.0g: 1.00
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Weight Check 1.0g: 1.00
Weight Check 10g: 10.00
BalanceID: M SC-4
Thermometer ID: % SOLID-OVEN

QC: LB136776

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

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

WORKLIST(Hardcopy Internal Chain)

VB136776

WorkList Name : %1-081125 **WorkList ID :** 191189 **Department :** Wet-Chemistry **Date :** 08-11-2025 08:22:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2817-01	LEAD-PAINT-CHIPS	Solid	Percent Solids	Cool 4 deg C	HOME01	D31	08/11/2025	Chemtech -SO
Q2818-01	B-2-5-1	Solid	Percent Solids	Cool 4 deg C	EARTH03	J21	08/11/2025	Chemtech -SO
Q2818-02	B-3-5-2	Solid	Percent Solids	Cool 4 deg C	EARTH03	J21	08/11/2025	Chemtech -SO
Q2823-01	SU-04-081125	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/11/2025	Chemtech -SO
Q2823-02	SU-04-081125-E2	Solid	Percent Solids	Cool 4 deg C	PSEG05	D31	08/11/2025	Chemtech -SO
Q2826-01	WC1	Solid	Percent Solids	Cool 4 deg C	GENV01	D31	08/11/2025	Chemtech -SO
Q2827-01	TP-8	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2827-02	TP-8-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2827-03	TP-8-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2827-05	TP-9	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2827-06	TP-9-EPH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2827-07	TP-9-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2828-01	POWDER	Solid	Percent Solids	Cool 4 deg C	VIVA01	D21	08/11/2025	Chemtech -SO
Q2829-01	SILICA	Solid	Percent Solids	Cool 4 deg C	VIVA01	D21	08/11/2025	Chemtech -SO
Q2830-01	BIN009-DRIVEWAY-TP-SOUTH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-02	BIN009-DRIVEWAY-TP-SOUTH	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-03	BIN009-DRIVEWAY-TP-WEST	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-04	BIN009-DRIVEWAY-TP-WEST	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-05	BIN009-DRIVEWAY-TP-WESTS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-06	BIN009-DRIVEWAY-TP-WESTS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2830-07	BIN009-DRIVEWAY-TP-EASTS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO

Date/Time 08.11.25 15:10

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

Date/Time 08.11.25 17:20

Raw Sample Received by: [signature]

Raw Sample Relinquished by: [signature]

WORKLIST(Hardcopy Internal Chain)

VB136776

WorkList Name : %1-081125 **WorkList ID :** 191189 **Department :** Wet-Chemistry **Date :** 08-11-2025 08:22:53

Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date	Method
Q2830-08	BIN009-DRIVEWAY-TP-EASTS	Solid	Percent Solids	Cool 4 deg C	PSEG03	D31	08/11/2025	Chemtech -SO
Q2831-01	VNJ-238	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/11/2025	Chemtech -SO
Q2831-02	VNJ-238-VOC	Solid	Percent Solids	Cool 4 deg C	PSEG03	D21	08/11/2025	Chemtech -SO

Date/Time 08.11.25 15:10
Raw Sample Received by:
Raw Sample Relinquished by:

Date/Time 08.11.25 17:20
Raw Sample Received by:
Raw Sample Relinquished by:

SHIPPING DOCUMENTS

Alliance TECHNICAL GROUP

284 Sheffield Street, Mountainside, NJ 07092
(908) 789-8900 • Fax (908) 789-8922
www.chemtech.net

ALLIANCE PROJECT NO.
QUOTE NO. Q 2818
COC Number 2047493

CLIENT INFORMATION

REPORT TO BE SENT TO:
COMPANY: EARTH ENGINEERING INCORPORATED
ADDRESS: 403 Commerce Lane
CITY West Berlin STATE: NJ ZIP: 08091
ATTENTION: Frank Dougherty
PHONE: 856-768-1001 FAX:

CLIENT PROJECT INFORMATION

PROJECT NAME: Reserve @ Turgyan Farms
PROJECT NO. 38745.JO LOCATION: NJ
PROJECT MANAGER: Frank DOUGHERTY
e-mail: Frankd@earthengineering.com
PHONE: 856-768-1001 FAX:

CLIENT BILLING INFORMATION

BILL TO: SAME PO#:
ADDRESS:
CITY STATE: ZIP:
ATTENTION: PHONE:

DATA TURNAROUND INFORMATION

FAX (RUSH) 3 DAYS*
HARDCOPY (DATA PACKAGE): DAYS*
EDD: DAYS*
*TO BE APPROVED BY CHEMTECH
STANDARD HARDCOPY TURNAROUND TIME IS 10 BUSINESS

DATA DELIVERABLE INFORMATION

☒ Level 1 (Results Only) ☐ Level 4 (QC + Full Raw Data)
☐ Level 2 (Results + QC) ☐ NJ Reduced ☐ US EPA CLP
☐ Level 3 (Results + QC + Raw Data) ☐ NYS ASP A ☐ NYS ASP B
☐ Other
☐ EDD FORMAT

ANALYSIS

1: TCL/TAL 2: EPH AF 3. 4 5 6 7 8 9

ALLIANCE SAMPLE ID	PROJECT SAMPLE IDENTIFICATION	SAMPLE MATRIX	SAMPLE TYPE COMP	SAMPLE TYPE GRAB	SAMPLE COLLECTION DATE	SAMPLE COLLECTION TIME	# OF BOTTLES	PRESERVATIVES 1	2	3	4	5	6	7	8	9	COMMENTS
1.	B-2-5-1	Soil		X	8-11-25	8:50	3	X	X								
2.	B-3-5-2	Soil		X	8-11-25	9:35	3	X	X								
3.																	
4.																	
5.																	
6.																	
7.																	
8.																	
9.																	
10.																	

← Specify Preservatives
A-HCl D-NaOH
B-HN03 E-ICE
C-H2SO4 F-OTHER

SAMPLE CUSTODY MUST BE DOCUMENTED BELOW EACH TIME SAMPLES CHANGE POSSESSION INCLUDING COURIER DELIVERY

RELINQUISHED BY SAMPLER:	DATE/TIME:	RECEIVED BY:
1.		1 1147 8-11-25
2.		2.
3.		3.

Conditions of bottles or coolers at receipt: ☐ COMPLIANT ☐ NON COMPLIANT ☐ COOLER TEMP 6 of 6 °C
Comments:

Page ____ of

CLIENT: ☐ Hand Delivered ☐ Other

Shipment Complete ☐ YES ☐ NO

WHITE - ALLIANCE COPY FOR RETURN TO CLIENT YELLOW - ALLIANCE COPY PINK - SAMPLER COPY

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

Laboratory Certification

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

QA Control Code: A2070148

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

DP 08/16/2025

LOGIN REPORT/SAMPLE TRANSFER

Order ID : Q2818 EARTH03
Client Name : Earth Engineering Inc.
Client Contact : Frank Dougherty, LSRP
Invoice Name : Earth Engineering Inc.
Invoice Contact : Frank Dougherty, LSRP

Order Date : 8/11/2025 11:57:00 AM
Project Name : ~~Leon Avenue~~ Reserve Turgyan Farms
Receive DateTime : 8/11/2025 11:47:00 AM
Purchase Order :

Project Mgr :
Report Type : NJ Reduced
EDD Type : EXCEL NJCLEANUP
Hard Copy Date :
Date Signoff :

LAB ID	CLIENT ID	MATRIX	SAMPLE DATE	SAMPLE TIME	TEST	TEST GROUP	METHOD	FAX DATE	DUE DATES
Q2818-01	B-2-5-1	Solid	08/11/2025	08:50					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	3 Bus. Days	
Q2818-02	B-3-5-2	Solid	08/11/2025	09:35					
					VOC-TCLVOA-10	TCL+30/TAL	8260D	3 Bus. Days	

JAN

stored in VOA Frz #02 after preservation

Relinguished By :
Date / Time : 8-11-25 1240

Received By :
Date / Time : 8-11-25 12:40 pm

Storage Area : VOA Refridgerator Room