

## DATA PACKAGE GENERAL CHEMISTRY

**PROJECT NAME: RFP 916** 

WESTON SOLUTIONS, INC. 1090 King Georges Post Road Suite 201

Edison, NJ - 08837-3703

Phone No: 732-585-4410

**ORDER ID: Q3179** 

**ATTENTION: Smita Sumbaly** 





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

Fax: 908 789 8922

### **Cover Page**

**Order ID:** Q3179

**Project ID:** RFP 916

**Client:** Weston Solutions, Inc.

Lab Sample Number Client Sample Number

Q3179-01 EME-TS14-01 Q3179-02 EME-TS14-01MS Q3179-03 EME-TS14-01MSD

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:

By Sohil Jodhani, QA/QC Director at 6:39 pm, Oct 02, 2025

APPROVED

NYDOH CERTIFICATION NO - 11376 NJDEP CERTIFICATION NO - 20012

10/1/2025

Date:

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### CASE NARRATIVE

Weston Solutions, Inc. Project Name: RFP 916

Project # N/A Order ID # Q3179

**Test Name: SPLP Cyanide** 

### A. Number of Samples and Date of Receipt:

3 Solid samples were received on 09/23/2025.

### **B. Parameters:**

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

### C. Analytical Techniques:

The analysis of SPLP 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:**

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\_

**APPROVED** 

By Sohil Jodhani, QA/QC Director at 6:39 pm, Oct 02, 2025

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### 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

**"T"** for Titrimetric

"C"

"NR" for analyte not required to be analyzed

for Manual Spectrophotometric

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

QA Control # A3040961

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### ALLIANCE 284 Sheffield Street, Mountainside New Jersey 07092

NEW JERSEY LAB ID#: 20012: NEW YORK LAB ID#: 11376

### GENERAL CHEMISTRY CONFORMANCE/NON-CONFORMANCE SUMMARY

ORDER ID: Q3179 MATRIX: Solid METHOD: 9012B NA NO YES 1. Blank Contamination - If yes, list compounds and concentrations in each blank: 2. Matrix Spike Duplicate Recoveries Met Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. The Blank Spike met requirements for all compounds. 3. Sample Duplicate Analysis Met QC Criteria If not met, list those compounds and their recoveries which fall outside the acceptable range. 4. Digestion Holding Time Met If not met, list number of days exceeded for each sample: ADDITIONAL COMMENTS: **APPROVED QA REVIEW** By Sohil Jodhani, QA/QC Director at 6:39 pm, Oct 02, 2025

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APPENDIX A

### **QA REVIEW GENERAL DOCUMENTATION**

**Project #: Q3179** 

	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)	<u> </u>
Check chain-of-custody for proper relinquish/return of samples	<u> </u>
Is the chain of custody signed and complete	<u> </u>
Check internal chain-of-custody for proper relinquish/return of samples /sample extracts	<del>'</del>
Collect information for each project id from server. Were all requirements followed	<u> </u>
COVER PAGE:	
Do numbers of samples correspond to the number of samples in the Chain of Custody on login page	<u> </u>
Do lab numbers and client Ids on cover page agree with the Chain of Custody	<u> </u>
CHAIN OF CUSTODY:	
Do requested analyses on Chain of Custody agree with form I results	<u> </u>
Do requested analyses on Chain of Custody agree with the log-in page	<del>'</del> <del>'</del> <del>'</del> <u>'</u> <u>'</u>
Were the correct method log-in for analysis according to the Analytical Request and Chain of Castody	<u> </u>
Were the samples received within hold time	<u> </u>
Were any problems found with the samples at arrival recorded in the Sample Management Laboratory Chronicle	<u> </u>
ANALYTICAL:	
Was method requirement followed?	<u> </u>
Was client requirement followed?	<u> </u>
Does the case narrative summarize all QC failure?	<del>'</del> <del>'</del> <del>'</del> <del>'</del> <del>'</del>
All runlogs and manual integration are reviewed for requirements	<u> </u>
All manual calculations and /or hand notations verified	<u> </u>

QA Review Signature: SOHIL JODHANI Date: 10/01/2025

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### LAB CHRONICLE

OrderID: Q3179 OrderDate: 9/24/2025 11:08:00 AM

Client:Weston Solutions, Inc.Project:RFP 916Contact:Smita SumbalyLocation:J42

LabID	ClientID	Matrix	Test	Method	Sample Date	Prep Date	Anal Date	Received
Q3179-01	EME-TS14-01	WATER			09/23/25			09/23/25
			SPLP Cyanide	9012B	12:45	09/29/25	09/29/25	
			Sele Cyanide	90120		09/29/23	15:57	

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# SAMPLE DATA



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

### **Report of Analysis**

Client:Weston Solutions, Inc.Date Collected:09/23/25 12:45Project:RFP 916Date Received:09/23/25

Client Sample ID: EME-TS14-01 SDG No.: Q3179

Lab Sample ID: Q3179-01 Matrix: WATER

% Solid: 0

Parameter	Conc. (	Qua.	DF N	MDL	LOQ / CRQL	Units	Prep Date	Date Ana.	Ana Met.
Cvanide	0.0032	J	1 0	0.00096	0.0050	mg/L	09/29/25 08:45	09/29/25 15:57	9012B

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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# QC RESULT SUMMARY

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### **Initial and Continuing Calibration Verification**

Client: Weston Solutions, Inc. SDG No.: Q3179

**Project:** RFP 916 **RunNo.:** LB137352

Analyte		Units	Result	True Value	% Recovery	Acceptance Window (%R)	Analysis Date
Sample ID: Cyanide	ICV1	mg/L	0.099	0.099	100	90-110	09/29/2025
Sample ID: Cyanide	CCV1	mg/L	0.24	0.25	96	90-110	09/29/2025
Sample ID: Cyanide	CCV2	mg/L	0.24	0.25	96	90-110	09/29/2025

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**Project:** 

RFP 916

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

LB137352

RunNo.:

Fax: 908 789 8922

### **Initial and Continuing Calibration Blank Summary**

Clie	<b>nt:</b> Weston Solutions, Inc.	SDG No.:	Q3179

Analyte		Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	ICB1	mg/L	< 0.0025	0.0025	Ū	0.00096	0.005	09/29/2025
Sample ID: Cyanide	CCB1	mg/L	< 0.0025	0.0025	U	0.00096	0.005	09/29/2025
Sample ID: Cyanide	CCB2	mg/L	0.0014	0.0025	J	0.00096	0.005	09/29/2025

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### **Preparation Blank Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

**Project:** RFP 916

Analyte	Units	Result	Acceptance Limits	Conc Qual	MDL	RDL	Analysis Date
Sample ID: Cyanide	PB169878BL mg/L	< 0.0025	0.0025	U	0.00096	0.005	09/29/2025
Sample ID: Cyanide	PB169878TB mg/L	0.0012	0.0025	J	0.00096	0.005	09/29/2025

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### **Matrix Spike Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

Project: RFP 916 Sample ID: Q3179-01

Client ID: EME-TS14-01MS Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit %R	Spiked Result	Conc. Qualifier	Sample Result	Conc. Qualifier	Spike Added	Dilution Factor	% Rec	Qual	Analysis Date	
Cvanide	mg/L	75-125	0.041		0.0032	J	0.04	1	95		09/29/2025	

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### **Matrix Spike Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

Project: RFP 916 Sample ID: Q3179-01

Client ID: EME-TS14-01MSD Percent Solids for Spike Sample: 0

		Acceptance	Spiked	Conc.	Sample	Conc.	Spike	Dilution	%		Analysis
Analyte	Units	Limit %R	Result	Qualifier	Result	Qualifier	Added	Factor	Rec	Qual	Date
Cyanide	mg/L	75-125	0.040		0.0032	J	0.04	1	92		09/29/2025

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### **Duplicate Sample Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

Project: RFP 916 Sample ID: Q3179-01

Client ID: EME-TS14-01DUP Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cyanide	mg/L	+/-20	0.0032	J	0.0030	J	1	6		09/29/2025	

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### **Duplicate Sample Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

Project: RFP 916 Sample ID: Q3179-01

Client ID: EME-TS14-01MSD Percent Solids for Spike Sample: 0

Analyte	Units	Acceptance Limit	Sample Result	Conc. Qualifier	Duplicate Result	Conc. Qualifier	Dilution Factor	RPD/ AD	Qual	Analysis Date	
Cyanide	mg/L	+/-20	0.041		0.040		1	2		09/29/2025	

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 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone: \; 908 \; 789 \; 8900, \\$ 

Fax: 908 789 8922

### **Laboratory Control Sample Summary**

Client: Weston Solutions, Inc. SDG No.: Q3179

**Project:** RFP 916 **Run No.:** LB137352

Analyte		Units	True Value		Conc. Qualifier F	% Recovery	Dilution Factor	Acceptance Limit %R	Analysis Date
Sample ID	PB169878BS								
Cvanide		mg/I	0.1	0.095		95	1	85-115	09/29/2025

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# RAW DATA

Reviewed By:lwona On:9/30/2025 12:22:03 PM

Inst Id :Konelab 20

10

LB :LB137352 Test results Aquakem 7.2AQ1 Page:

> Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : RM Instrument ID : Konelab

9/29/2025 16:07

Test: Total CN

Sample Id	Result	Dil. 1 +	Response	Errors
ICV1 ICB1 CCV1 CCB1 PB169878BL PB169878BS PB169878TB Q3177-01 Q3177-02 Q3177-03 Q3179-01 Q3179-01 Q3179-01DUP Q3179-02MS Q3179-03MSD CCV2 CCB2	98.562 0.948 236.792 0.915 0.922 95.388 1.167 2.023 1.432 2.849 3.224 3.027 41.016 40.388 240.582 1.407	0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0 0.0	0.087 0.001 0.209 0.001 0.001 0.084 0.001 0.002 0.001 0.002 0.003 0.002 0.003 0.002 0.036 0.036 0.212 0.001	

N	16
Mean	48.165
SD	81.2398
CV%	168.67

Q3179-GENCHEM

Aquakem v. 7.2AQ1

Q3179-GENCHEM

Results from time period:

Mon Sep 29 15:04:31 2025

Mon Sep 29 16:04:39 2025

•							
Sample Id	Sam/Cti	r/c/ Test shor	t r Test type	Result	Result unit	Result date and time	Stat
0.0PPBCN	Α	Total CN	Р	1.6875	μg/l	9/29/2025 15:22:22	
5.0PPBCN	Α	Total CN	Р	6.1275	µg/l	9/29/2025 15:22:23	
10PPBCN	Α	Total CN	Р	10.9412	µg/l	9/29/2025 15:22:24	
50PPBCN	Α	Total CN	Р	47.623	µg/l	9/29/2025 15:22:25	
100PPBCN	Α	Total CN	Р	99.8707	μg/l	9/29/2025 15:22:26	
250PPBCN	Α	Total CN	Р	247.0333	µg/l	9/29/2025 15:22:27	
500PPBCN	Α	Total CN	Р	501.7168	μg/l	9/29/2025 15:22:28	
ICV1	S	Total CN	Р	98.5621	µg/l	9/29/2025 15:49:52	
ICB1	S	Total CN	Р	0.9485	μg/l	9/29/2025 15:49:53	
CCV1	S	Total CN	Р	236.7922	µg/l	9/29/2025 15:49:56	
CCB1	S	Total CN	Р	0.9154	μg/l	9/29/2025 15:49:58	
PB169878BL	S	Total CN	Р	0.9222	μg/l	9/29/2025 15:50:00	
PB169878BS	S	Total CN	Р	95.3878	µg/l	9/29/2025 15:50:01	
PB169878TB	S	Total CN	Р	1.1667	µg/l	9/29/2025 15:57:24	
Q3177-01	S	Total CN	Р	2.0225	µg/l	9/29/2025 15:57:26	
Q3177-02	S	Total CN	Р	1.4325	µg/l	9/29/2025 15:57:27	
Q3177-03	S	Total CN	Р	2.849	µg/l	9/29/2025 15:57:28	
Q3179-01	S	Total CN	Р	3.2236	µg/l	9/29/2025 15:57:30	
Q3179-01DUP	S	Total CN	Р	3.0273 إ	ug/l	9/29/2025 15:57:32	
Q3179-02MS	S	Total CN	Р	41.0157 μ	ıg/l	9/29/2025 15:57:33	
Q3179-03MSD	S	Total CN	Р	40.3877 բ	ıg/l	9/29/2025 16:04:30	
CCV2	S	Total CN	P	240.5816 µ	ıg/l	9/29/2025 16:04:36	
CCB2	S	Total CN	P	1.4067 μ	ıg/l	9/29/2025 16:04:38	

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LB :LB137352

Calibration results

Aquakem 7.2AQ1

Page:

Alliance Technical Group 284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : \_\_\_\_\_\_ Instrument ID : Konelab

9/29/2025 15:23

Test Total CN

Accepted

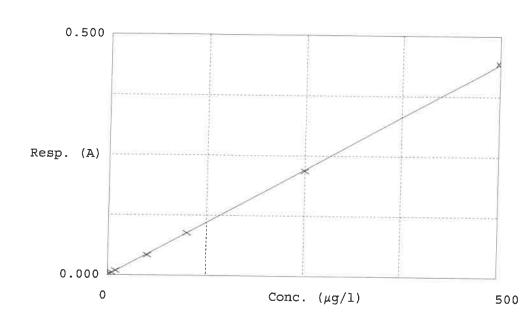
9/29/2025 15:23

Factor Bias

1131

Coeff. of det. 0.999891

Errors



	Calibrator	Response	Calc. con.	Conc.	& Errors	
1 2 3 4 5 6	0.0PPBCN 5.0PPBCN 10PPBCN 50PPBCN 100PPBCN 250PPBCN 500PPBCN	0.001 0.005 0.009 0.042 0.088 0.218 0.443	1.6875 6.1275 10.9412 47.6230 99.8707 247.0333 501.7168	0.0000 5.0000 10.0000 50.0000 100.0000 250.0000 500.0000	22.6 9.4 -4.8 -0.1 -1.2	

0912912025 RM

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SOP ID:	N/A								
SDG No:	N/A		Start	Digest Date:	09/29/2025	Time :	08:45	Temp :	123 °C
Matrix :	WATER		End	Digest Date:		Time :	10:15	Temp:	127 °C
Pippete ID :	wc			11 betch	09/29/2025		10.45		1232
Balance ID:	N/A				· [1 D] 1000		, ()		1005
Hood ID:	HOOD#1	Digestion tube ID:	M5595		Block Therm	omete	· ID: W	C CYANID	E
Block ID :	MC-1,MC-2	Filter paper ID :	N/A		Prep Technicia:	n Signa	ture:	20	
Weigh By :	N/A	pH Meter ID :	N/A		Superviso	r Signat	ture:	12	

Standared Name	MLS USED	STD REF. # FROM LOG	
LCSW	1.0ML	WP113838	
MS/MSD SPIKE SOL.	0.40ML	WP113837	
PBW	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
pH Paper 0-14	N/A	W3215
Nitrate/Nitrite Strip	N/A	W3182
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
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
510.0	S10.0	N/A	N/A
S100.0	S100.0	N/A	N/A
S250.0	S250.0	N/A	N/A
S500.0	5500.0	N/A	N/A
ICV	ICV	N/A	AS PER PB169884
ICB	ICB	N/A	N/A
ccv	CCV	N/A	N/A
ССВ	ССВ	N/A	N/A
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	AS PER PB169884
LOWSTD	LOWSTD	N/A	AS PER PB169884

### **Extraction Conformance/Non-Conformance Comments:**

N/A

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
09/29/2025 12.30	26/ac	RM (WI)
	Preparation Group	Analysis Group





Lab Sample ID	Client Sample ID	Initial Vol (mi)	Final Vol (ml)	рН	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep
PB169878BL	PBS878	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB169878BS	LCS878	50	50	>12	Negative	Negative	Negative	N/A	N/A
PB169878TB	LEB878	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3177-01	EME-TS12-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3177-02	EME-TS13-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3177-03	EME-TS14-02	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3179-01	EME-TS14-01	50	50	>12	Negative	Negative	Negative	N/A	N/A
Q3179-01DUP	EME-TS14-01DUP	50	50	>12	Negative	Negative	Negative	N/A	N/A
(3179-02	EME-TS14-01MS	50	50	>12	Negative	Negative	Negative	N/A	N/A
23179-03	EME-TS14-01MSD	50	50	>12	Negative	Negative	Negative	N/A	N/A

# WORKLIST(Hardcopy Internal Chain)

WorkList Name:	SPLP CN	WorkList ID :	0: 192156	Department: Distillation	Distillation	Daí	Date: 09-29-2025 07:24:26	5 07:24:26
Sample	Customer Sample	Matrix	Test	Preservative	Customer	Raw Sample Storage Location	Collect Date Method	Method
Q3177-01	EME-TS12-01	Solid						
20 11700		DIIDO	orth Cyanide	Cool 4 deg C	ROYF02	J23	09/23/2025 9012B	9012B
W31//-UZ	EME-TS13-01	Solid	SPLP Cyanide	Cool 4 deg C	ROYE02	193	1000,000	1070
03177-03	EME TO 44 00			,	30 11 001	050	US/23/2025 9012B	90128
	LIVIE-1314-02	Solid	SPLP Cyanide	Cool 4 deg C	ROYF02	.123	00/23/20/26 004/26	00400
Q3179-01	EME-TS14-01	Solid	SPI P Cvanide	0 - 1 4 1 - 0			202/2020	90120
20 20 20 20 20 20 20 20 20 20 20 20 20 2			Si i oyamaa	Cool 4 deg C	ROYF02	J42	09/23/2025 9012B	9012B
Q3179-02	EME-TS14-01MS	Solid	SPLP Cyanide	Cool 4 dea C	ROYE02	CZ	10000000	
03179-03	EME TEST OTHER	:			20 1105	245	US/23/2025 9012B	9012B
	LIME 10 14-0 IMOD	Solid	SPLP Cyanide	Coal 4 deg C	ROYF02	J42	09/23/2025 9012R	9012B
								00.00

Raw Sample Relinquished by: Raw Sample Received by: Date/Time

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09/29/2025 Date/Time

Raw Sample Relinquished by: Raw Sample Received by:



**Instrument ID:** 

KONELAB

### Daily Analysis Runlog For Sequence/QCBatch ID # LB137352

Review By	rub	ina	Review On	9/30/2025 9:45:47 AM
Supervise By	lwc	ona	Supervise On	9/30/2025 12:22:03 PM
SubDirectory	LB	137352	Test	SPLP Cyanide
STD. NAME STD REF.#				
ICAL Standard		WP114945,WP114946,	WP114947,WP114948,WP114949,WP1	14950,WP114951
ICV Standard		W3012		
CCV Standard		WP114946		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		WP113838		
Chk Standard		WP112643,WP114324,	WP114952	

		l					L
Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	0.0PPBCN	0.0PPBCN	CAL1	09/29/25 15:22		rubina	ОК
2	5.0PPBCN	5.0PPBCN	CAL2	09/29/25 15:22		rubina	ок
3	10PPBCN	10PPBCN	CAL3	09/29/25 15:22		rubina	ОК
4	50PPBCN	50PPBCN	CAL4	09/29/25 15:22		rubina	ОК
5	100PPBCN	100PPBCN	CAL5	09/29/25 15:22		rubina	ОК
6	250PPBCN	250PPBCN	CAL6	09/29/25 15:22		rubina	ОК
7	500PPBCN	500PPBCN	CAL7	09/29/25 15:22		rubina	ОК
8	ICV1	ICV1	ICV	09/29/25 15:49		rubina	ОК
9	ICB1	ICB1	ICB	09/29/25 15:49		rubina	ОК
10	CCV1	CCV1	CCV	09/29/25 15:49		rubina	ОК
11	CCB1	CCB1	ССВ	09/29/25 15:49		rubina	ОК
12	PB169878BL	PB169878BL	МВ	09/29/25 15:50		rubina	ОК
13	PB169878BS	PB169878BS	LCS	09/29/25 15:50		rubina	ОК
14	PB169878TB	PB169878TB	МВ	09/29/25 15:57		rubina	ОК
15	Q3177-01	EME-TS12-01	SAM	09/29/25 15:57		rubina	ок
16	Q3177-02	EME-TS13-01	SAM	09/29/25 15:57		rubina	ОК
17	Q3177-03	EME-TS14-02	SAM	09/29/25 15:57		rubina	ОК
18	Q3179-01	EME-TS14-01	SAM	09/29/25 15:57		rubina	ок

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**Instrument ID:** 

KONELAB

### Daily Analysis Runlog For Sequence/QCBatch ID # LB137352

Review By	rub	pina	Review On	9/30/2025 9:45:47 AM
Supervise By	lwc	ona	Supervise On	9/30/2025 12:22:03 PM
SubDirectory	LB	137352	Test	SPLP Cyanide
STD. NAME		STD REF.#		
ICAL Standard		WP114945,WP114946,	WP114947,WP114948,WP114949,WP1	14950,WP114951
ICV Standard		W3012		
CCV Standard		WP114946		
ICSA Standard		N/A		
CRI Standard		N/A		
LCS Standard		WP113838		
Chk Standard WP112643,WP114324,WP114952				

19	Q3179-01DUP	EME-TS14-01DUP	DUP	09/29/25 15:57	rubina	ок
20	Q3179-02	EME-TS14-01MS	MS	09/29/25 15:57	rubina	ок
21	Q3179-03	EME-TS14-01MSD	MSD	09/29/25 16:04	rubina	ок
22	CCV2	CCV2	CCV	09/29/25 16:04	rubina	ОК
23	CCB2	CCB2	ССВ	09/29/25 16:04	rubina	OK

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### **Prep Standard - Chemical Standard Summary**

Order ID: Q3179

Test: SPLP Cyanide

Prepbatch ID: PB169878,

Sequence ID/Qc Batch ID: LB137352,

### Standard ID:

WP112643,WP112826,WP112827,WP113836,WP113837,WP113838,WP114324,WP114944,WP114945,WP114946,WP114947,WP114948,WP114949,WP114951,WP114951,WP114952,

### Chemical ID:

M6041,M6151,W2668,W3012,W3019,W3112,W3113,W3139,W3152,W3182,W3203,W3214,W3215,W3224,

Q3179-GENCHEM **29 of 61** 



Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
539	CN BUFFER	<u>WP112643</u>	04/09/2025	10/09/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC	None	04/09/2025
FROM	138.00000gram of W2668 + 862.000	00ml of W3	112 = Final Q	uantity: 1000.0	000 ml	SC-5)		

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

FROM 1000.0000ml of M6041 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

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Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP112827	04/25/2025	10/25/2025	Rubina Mughal	WETCHEM_S CALE_8 (WC		04/25/2025

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

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
11	Sodium hydroxide absorbing	WP113836	07/08/2025	12/31/2025	Rubina Mughal	WETCHEM_S	None	•
	solution 0.25 N					CALE_8 (WC		07/08/2025

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

Q3179-GENCHEM 31 of 61



Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3850	Cyanide MS-MSD spiking solution, 5PPM	WP113837	07/08/2025	11/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	07/08/2025
FROM	1.00000ml of W3214 + 199.00000ml	of WP11383	36 = Final Qu	antitv: 200.000	) ml		(WC)	

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
3371	Cyanide LCS Spike Solution, 5PPM	<u>WP113838</u>	07/08/2025	12/24/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	07/08/2025

FROM 1.00000ml of W3224 + 199.00000ml of WP113836 = Final Quantity: 200.000 ml

Q3179-GENCHEM 32 of 61



Recipe				Expiration	Prepared			Supervised By	
<u>ID</u>	NAME	NO.	Prep Date	Date	By	<u>ScaleID</u>	<u>PipetteID</u>	Jignesh Parikh	
607	PYRIDINE-BARBITURIC ACID	WP114324	08/19/2025	02/17/2026	Rubina Mughal	WETCHEM_S	Glass	3 3 3	
						CALE_5 (WC	Pipette-A	08/19/2025	
FROM	FROM 145.00000ml of W3112 + 15.00000gram of W3203 + 15.00000ml of M6151 + 75.00000ml of W3019 = Final Quantity: 250.000								

ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarvch
3456	Cyanide Intermediate Working Std, 5PPM	<u>WP114944</u>	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3 (WC)	09/29/2025

**FROM** 0.25000ml of W3214 + 49.75000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych
4	Calibation standard 500 ppb	WP114945	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_F	•
							IPETTE_3	09/29/2025
FROM	(WC)							

3761 Calibration-CCV CN Standard 250 WP114946 09/29/2025 09/30/2025 Rubina Mughal None WETCHEM_F IPETTE 3 09/29/2025	Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
	3761	Calibration-CCV CN Standard 250 ppb	WP114946	09/29/2025	09/30/2025	Rubina Mughal	None	_	09/29/2025

**FROM** 2.50000ml of WP114944 + 47.50000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe ID	NAME.	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Iwona Zarych
6	Calibration Standard 100 ppb	<u>WP114947</u>	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_P IPETTE_3	,
FROM	1.00000ml of WP114944 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml							

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarvch
7	Calibration Standard 50 ppb	<u>WP114948</u>	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	, .

FROM 0.50000ml of WP114944 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

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Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych	
8	Calibration Standard 10 ppb	<u>WP114949</u>	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_F IPETTE_3	09/29/2025	
FROM	1.00000ml of WP114945 + 49.00000ml of WP113836 = Final Quantity: 50.000 ml								

Recipe				<b>Expiration</b>	<u>Prepared</u>			Supervised By	
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Iwona Zarych	
9	Calibration Standard 5 ppb	<u>WP114950</u>	09/29/2025	09/30/2025	Rubina Mughal	None	WETCHEM_F		
							IPETTE_3	09/29/2025	l
							(VVC)		1

FROM 0.50000ml of WP114945 + 49.50000ml of WP113836 = Final Quantity: 50.000 ml

Q3179-GENCHEM 36 of 61



#### Wet Chemistry STANDARD PREPARATION LOG

Recipe				Expiration	<u>Prepared</u>			Supervised By
<u>ID</u>	NAME	NO.	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	lwona Zarych
167	0 ppb CN calibration std	WP114951	09/29/2025	09/30/2025	Rubina Mughal	None	None	•
								09/29/2025
FROM	FROM 50.00000ml of WP113836 = Final Quantity: 50.000 ml							

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Iwona Zarych
1582	Chloramine T solution, 0.014M	WP114952	09/29/2025	09/30/2025	Rubina Mughal	_		
						CALE_5 (WC	Pipette-A	09/29/2025

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-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 #
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 / lwona	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

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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.	PC19510-7 / Sodium Hydroxide Pellets 12 Kg	23B1556310	12/31/2025	07/08/2024 / Iwona	07/08/2024 / Iwona	W3113
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.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	436101	04/30/2027	08/05/2025 / Iwona	02/26/2025 / Iwona	W3182
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	WXBF3271V	05/16/2029	04/21/2025 / lwona	04/21/2025 / Iwona	W3203
Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	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

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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.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	10D3242	12/31/2028	06/09/2025 / Iwona	06/09/2025 / Iwona	W3215

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

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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

**Product Name:** 

**Certificate of Analysis** 

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 %
Nater (by Karl Fischer)	_ < 0.003 %	0.002 %
Residue on Evaporation	_ < 0.0005 %	< 0.0001 %

Larry Coers, Director **Quality Control** 

Sheboygan Falls, WI US

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.





#### QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

Instructions for QATS Reference Material: Inorganic ICV Solutions

## QATS LABORATORY INORGANIC REFERENCE MATERIAL INITIAL CALIBRATION VERIFICATION SOLUTIONS (ICV1, ICV5, AND ICV6)

**NOTE:** These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

**APPLICATION:** For use with the CLP SFAM01.0 SOW and revisions.

CAUTION: Read instructions carefully before opening bottle(s) and proceeding with

the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions HAZARDOUS MATERIAL

> Safety Data Sheets Available Upon Request

W2160, W2161, W2162, W2163, W2164 Receive by AP on 9/2/2016

#### (A) SAMPLE DESCRIPTION

Enclosed is a set of one (1) or more Aqueous Inorganic Reference Materials containing various analyte concentrations. ICV1 and ICV5 are in a matrix of dilute nitric acid. ICV6 is in a matrix of dilute basic solution. For the reference material source in reporting ICVs use "USEPA". For the reference material lot number for the ICV1, ICV5, and ICV6 solutions use "ICV1-1014", "ICV5-0415", and "ICV6-0400", respectively.

#### (B) BREAKAGE OR MISSING ITEMS

Check the contents of the shipment carefully for any broken, leaking, or missing items. Check that the seal is intact on each bottle. Refer to the enclosed chain of custody record. Report any problems to Mr. Keith Strout, APTIM Federal Services, LLC, at (702) 895-8722. If requested, return the chain-of-custody record with appropriate annotations and signatures to the address provided below.

QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY
APTIM Federal Services, LLC
2700 Chandler Avenue - Building C
Las Vegas, NV 89120

#### (C) ANALYSIS OF SAMPLES

The Initial Calibration Verification Solutions (ICVs) are to be used to evaluate the accuracy of the initial calibrations of ICP, AA, and Cyanide colorimetric instruments, and are to be used with the CLP SOWs and revisions. The values for each element in the ICVs are listed below in  $\mu g/L$  (ppb) for the resulting solution(s) after the dilution of the concentrate(s) according to the following instructions. Use Class 'A' glassware to prepare the solution(s).

ICV1-1014 For ICP-AES analysis, use a 10-fold dilution by pipetting 10 mL of the ICV1 concentrate into a 100 mL volumetric flask and dilute to volume with 2% (v/v) nitric

acid.

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QATS Form 20-007F188R00, 04-19-2021



RMs ICV 1, 5, 6 SFAM.docx

The Quality Assurance Technical Support (QATS) contract is operated by APTIM Federal Services, LLC.

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### QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY "An ISO 9001:2015 Certified Program"

#### Instructions for QATS Reference Material: Inorganic ICV Solutions

ICV1-1014

<u>For ICP-MS analysis</u>, use a 50-fold dilution by pipetting 2 mL of the ICV1 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, use a 100-fold dilution by pipetting 1 mL of the ICV5 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, use a 100-fold dilution by pipetting 1 mL of the ICV6 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<sub>3</sub>Fe(CN)<sub>6</sub>, 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	2500	500
Sb	1000	200
As	1000	200
Ва	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Со	520	100
Cu	510	100
Fe	10000	2000
Pb	1000	200
Mg	6000	1200
Mn	520	100
Ni	530	110
K	9900	2000
Se	1000	200
Ag	250	50
Na	10000	2000
TI	1000	210
V	500	100
Zn	1000	200

IC	CV5-0415	ICV6-0400		
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution)	
Hg	4.0	CN <sup>-</sup>	99	

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QATS Form 20-007F188R00, 04-19-2021

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RMs ICV 1, 5, 6 SFAM.docx

Q3179-GENCHEM

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





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 <sub>2</sub> SO <sub>4</sub> )	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 <sub>4</sub> )	≤ 1 ppm	1 ppm
Chloride (CI)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO <sub>3</sub> )	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (AI)	≤ 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
Frace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Frace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
race Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
race Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
race Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
race Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
race Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
race Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
race Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
race Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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





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

Test	Considiant	
7.000	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

Jamie Ethier
Vice President Global Quality

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M 6151

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 HCI) (by acid-base titrn)	36.5 - 38.0 %	
ACS - Color (APHA)	≤ 10	37.9 %
ACS - Residue after Ignition	≤ 3 ppm	5
ACS - Specific Gravity at 60°/60°F	≥ 3 ppm 1.185 – 1.192	< 1 ppm
ACS – Bromide (Br)	≤ 0.005 %	1.191
ACS - Extractable Organic Substances		< 0.005 %
ACS - Free Chlorine (as Cl <sub>2</sub> )	≤ 5 ppm	< 1 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.5 ppm	< 0.5 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.05 ppm	< 0.03 ppm
Sulfite (SO <sub>3</sub> )	≤ 0.5 ppm	< 0.3 ppm
Ammonium (NH <sub>4</sub> )	≤ 0.8 ppm	0.3 ppm
Trace Impurities - Arsenic (As)	≤ 3 ppm	< 1 ppm
Trace Impurities – Aluminum (AI)	≤ 0.010 ppm	< 0.003 ppm
Arsenic and Antimony (as As)	≤ 10.0 ppb	1.3 ppb
Trace Impurities - Barium (Ba)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Cadmium (Cd)	≤ 20.0 ppb	< 5.0 ppb
	≤ 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
Frace Impurities - Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Frace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Frace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
race Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
race Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
leavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
race Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>





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 (TI)	≤ 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
Frace Impurities – Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Frace Impurities – Zinc (Zn)	≤ 5.0 ppb	0.8 ppb
Frace 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





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



Sodium Phosphate, Monobasic, Monohydrate, Crystal BAKER ANALYZED® A.C.S. Reagent **C**Vavantor™ J.T.Bake

(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 (NaH2PO4 · H2O)	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 (CI)	<= 5 ppm	< 5		
ACS - Sulfate (SO <sub>4</sub> )	<= 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



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

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12/14/2022

12/31/2025

### **Sodium Hydroxide (Pellets)**

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance: Storage: Room Temperature

**Pellets** 

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

Manufacture Date:

**Expiration Date:** 

Internal ID #: 710

#### Signature Additional Information

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

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

Product meets analytical specifications of the grades listed.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed: 02/15/2023

Page 1 of 2

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### **Sodium Hydroxide (Pellets)**

Material: 0583

Grade: ACS GRADE Batch Number: 23B1556310

Chemical Formula: NaOH Molecular Weight: 40

CAS #: 1310-73-2

Appearance:

**Pellets** 

Spec Set: 0583ACS

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

Storage: Room Temperature

Internal ID #: 710

Signature

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

We certify that this batch conforms to the specifications listed.

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.

VWR International LLC, Radnor Corporate Center, Suite 200, 100 Matsonford Road, Radnor, PA 19087, USA

Date Printed:

02/15/2023

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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.

Products are processed under ISO 9001:2015 quality management systems and samples are tested for conformance to the noted specifications. Certain data may have been supplied by third parties. We disclaim the implied warranties of merchantability and fitness for a particular purpose, and the accuracy of third party data or information associated with the product. Products are for research and development use only. Products are not for direct administration to humans or animals. It is the responsibility of the final formulator or end user to determine suitability, and to qualify and/or validate each product for its intended use.

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### Chem-Impex International, Inc.

Tel: (630) 766-2112 Fax: (630) 766-2218

E-mail: sales@chemimpex.com Web site: www.chemimpex.com

825 Dillon Drive

Shipping and Correspondence: Manufacturing site:

Wood Dale, IL 60191 Wood Dale, IL 60191

### Certificate of Analysis

Catalogue Number 01237

935 Dillon Drive

Q3179-GENCHEM

**Lot Number** 002126-2019-201

Product Magnesium chloride hexahydrate

Magnesium chloride•6H<sub>2</sub>O

CAS Number 7791-18-6 Molecular Formula MgCl₂•6H₂O

Molecular Weight 203.3

**Appearance** White crystals

**Solubility** 167 g in 100 mL water

Melting Point $\sim 115$  °CHeavy Metals4.393 ppm

Anion Nitrate (NO<sub>3</sub>): < 0.001%Phosphate (PO<sub>4</sub>): < 5 ppm

Phosphate (PO<sub>4</sub>) : < 5 ppm Sulfate (SO<sub>4</sub>) : < 0.002% Ammonium (NH<sub>4</sub>) : < 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 material0.0021%Assay by titration100.83%GradeACS reagentStorageStore at RT

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Page 1 of 2

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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** 

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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

Barbituric acid - ReagentPlus®, 99%

Product Name:

**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

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

Kang Chen

Quality Manager Wuxi, China CN

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

Version Number: 1 Q3179-GENCHEM

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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 certified 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)

Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 1 of 2

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Ernest Mahan (05/08/2025)

Plant Manager

This test report shall not be reproduced, except in full, without the written approval of Ricca Chemical Company.

Version: 1.3 Lot Number: 1505H73 Product Number: 2543 Page 2 of 2

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#### 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

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# SHIPPING DOCUMENTS

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USEPA

AirbillNo:

DateShipped: 9/23/2025

CarrierName: Hand-Delivered

PA CHAIN OF CUSTODY RECORD

Case #:

Contact Name: Leticia Campiglia

Contact Phone: 732-570-4993

No: 2-092325-0004-0049-

Cooler #: 2 of 2

Lab: Alliance Technical Group LLC (non-

CLP)

Lab Phone: 908-789-8900

Lab#	Sample #	Analyses	Matrix	Sample Date	Sample Time	Numb Cont		Preservative	Lab QC
7	EME-TS14-01	TAL VOCs,	Soil	9/23/2025	12:45	9	5 g Encore sampler	4 C	Υ
Ċ	EME-TS14-01	EPH	Soil	9/23/2025	12:45	2	4 oz glass jar	4 C	Υ
6	EME-TS14-01	SPLP VOCs	Soil	9/23/2025	12:45	9	5 g Encore sampler	4 C	Υ
4	EME-TS14-01	SPLP SVOCs, Pesticides, PCBs	Soil	9/23/2025	12:45	4	8 oz amber glass jar	4 C	Υ
7	EME-TS14-01	SPLP EPH	Soil	9/23/2025	12:45	2	4 oz glass jar	4 C	Υ
1	EME-TS14-01	TAL Metals + Hg and Cn	Soil	9/23/2025	12:45	2	8 oz clear glass jar	4 C	Υ
•	EME-TS14-01	SPLP Metals + Hg and Cn	Soil	9/23/2025	12:45	2	8 oz clear glass jar	4 C	Υ
	EME-TS14-01	Percent Moisture	Soil	9/23/2025	12:45	2	4 oz jar w/ septum	4 C	Υ
	EME-TS14-01	TAL SVOCs, PCBs, Pesticides	Soil	9/23/2025	12:45	4	8 oz amber glass jar	4 C	Υ
/						7			7

Special Instructions: RFP # 916. Please email results to leticia.campiglia@westonsolutions.com, smita.sumbaly@westonsolutions.com, ronan.clynch@westonsolutions.com and michael.lang@westonsolutions.com. 7 day preliminary TAT.

SAMPLES TRANSFERRED FROM CHAIN OF CUSTODY #

Items/Reason	Relinquished by (Signature and Organization)	Date/Time	Received by (Signature and Organization)	Date/Time	Sample Condition Upon Receipt
Samples	1 START VI	9/23/25	A	9-23-25	1.3.C
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### Laboratory Certification

Certified By	License No.
Connecticut	PH-0830
DOD ELAP (ANAB)	L2219
Maine	2024021
Maryland	296
•	
New Hampshire	255425
F	
New Jersey	20012
New York	11376
Pennsylvania	68-00548
į	
Soil Permit	525-24-234-08441
Texas	TX-C25-00189
.0.00	523 33 100
Virginia	460312

QA Control Code: A2070148

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