

EPA SAMPLE NO.

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Y6

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-01  
% Solids: 83.9 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.59	U	12/18/2024	1338

NOTE: Hardness (total) is reported in mg/L

Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Y7

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-02  
% Solids: 81.3 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.59	U	12/18/2024	1345

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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EPA SAMPLE NO.

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Y8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-03  
% Solids: 82.7 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.62		12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Y9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-04  
% Solids: 79.8 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	J	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

ME28Z0

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-05  
% Solids: 77.5 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.47	J	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-06  
% Solids: 81.7 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.61	U	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z2

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-07  
% Solids: 80.3 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.48	J	12/18/2024	1345

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z3

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-08  
% Solids: 78.3 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.59	J	12/18/2024	1345

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z4

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-09  
% Solids: 81.4 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.30	J	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z5

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-10  
% Solids: 79.9 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.33	J	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

ME28Z6

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-11  
% Solids: 79.1 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.28	J	12/18/2024	1345

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

ME28Z7

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-12  
% Solids: 81.5 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.60	U	12/18/2024	1345

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME28Z8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-13  
% Solids: 82.5 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	12/18/2024	1353

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

FORM 1 - IN

ME28Z9

## INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6

Matrix: SOIL Lab Sample ID: P5266-14

% Solids: 87.6 Date Received: 12/12/2024

Analytical Method: CN

Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):  $\text{mg/kg}$ 

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.54	U	12/18/2024	1353

NOTE: Hardness (total) is reported in  $\text{mg/L}$ 

Comments:

EPA SAMPLE NO.

ME2900

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-15  
% Solids: 85.2 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                      mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.22	J	12/18/2024	1353

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

ME2901

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-16  
% Solids: 82.1 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.59	U	12/18/2024	1353

NOTE: Hardness (total) is reported in mg/L

Comments:  

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EPA SAMPLE NO.

ME2902

FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-17  
% Solids: 82.5 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.21	J	12/18/2024	1353

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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FORM 1 - IN  
INORGANIC ANALYSIS DATA SHEET

ME2903

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011  
Lab Code: ACE Case No.: 51847 MA No. :                      SDG No.: ME28Y6  
Matrix: SOIL Lab Sample ID: P5266-18  
% Solids: 68.9 Date Received: 12/12/2024  
Analytical Method: CN  
Concentration Units ( $\mu\text{g/L}$ ,  $\text{mg/L}$ ,  $\text{mg/kg}$  dry weight,  $\mu\text{g}$ , or  $\mu\text{g/cm}^2$ ):                       $\text{mg/kg}$

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	6.3		12/18/2024	1353

NOTE: Hardness (total) is reported in  $\text{mg/L}$ Comments:  

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Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC  
284 Sheffield Street, Mountainside, NJ 07092

12/18/2024 14:16

Reviewed by : NF Instrument ID : Konelab

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Errors
ICV001 ICV001	96.231	0.0	0.087	
ICB001 ICB001	0.960	0.0	0.002	
CCV001 CCV001	242.078	0.0	0.218	
CCB001 CCB001	0.710	0.0	0.001	
PB165712BL PBS712	0.883	0.0	0.002	
P5266-01 ME28Y6	0.325	0.0	0.001	
P5266-02 ME28Y7	3.171	0.0	0.004	
P5266-03 ME28Y8	10.367	0.0	0.010	
P5266-04 ME28Y9	9.403	0.0	0.009	
P5266-05 ME28Z0	7.645	0.0	0.008	
P5266-06 ME28Z1	1.636	0.0	0.002	
P5266-07 ME28Z2	7.918	0.0	0.008	
P5266-08 ME28Z3	9.344	0.0	0.009	
P5266-09 ME28Z4	5.115	0.0	0.005	
P5266-10 ME28Z5	5.373	0.0	0.006	
P5266-11 ME28Z6	4.455	0.0	0.005	
P5266-12 ME28Z7	-0.259	0.0	0.001	
P5266-13 ME28Z8	0.431	0.0	0.001	
P5266-14 ME28Z9	0.671	0.0	0.001	
P5266-15 ME2900	3.754	0.0	0.004	
P5266-16 ME2901	1.668	0.0	0.002	
P5266-17 ME2902	3.665	0.0	0.004	
P5266-18 ME2903	88.183	0.0	0.080	
P5266-19 ME28Y9D	9.123	0.0	0.009	
P5266-20 ME28Y9S	103.002	0.0	0.093	
CCV002 CCV002	253.437	0.0	0.229	
CCB002 CCB002	1.048	0.0	0.002	

N 27  
Mean 32.235  
SD 68.7898  
CV% 213.40

NF  
12/18/2024

Aquakem v. 7.2AQ1

Results from time period:

Wed Dec 18 11:54:53 2024

Wed Dec 18 14:14:34 2024

Sample Id	Sam	Test short name	Test	Result	Result unit	Result date and time	Stat
S0.0	A	CNEPA-NEW	P	-0.4635	µg/l	12/18/2024 12:36:18	
S5.0	A	CNEPA-NEW	P	4.6831	µg/l	12/18/2024 12:36:19	
S10.0	A	CNEPA-NEW	P	9.561	µg/l	12/18/2024 12:36:20	
S100.0	A	CNEPA-NEW	P	101.1074	µg/l	12/18/2024 12:36:21	
S250.0	A	CNEPA-NEW	P	250.6432	µg/l	12/18/2024 12:36:22	
S500.0	A	CNEPA-NEW	P	499.4689	µg/l	12/18/2024 12:36:23	
ICV001 ICV001	S	CNEPA-NEW	P	96.2315	µg/l	12/18/2024 13:37:59	
ICB001 ICB001	S	CNEPA-NEW	P	0.9599	µg/l	12/18/2024 13:38:00	
CCV001 CCV001	S	CNEPA-NEW	P	242.0783	µg/l	12/18/2024 13:38:02	
CCB001 CCB001	S	CNEPA-NEW	P	0.7102	µg/l	12/18/2024 13:38:04	
PB165712BL PBS712	S	CNEPA-NEW	P	0.8832	µg/l	12/18/2024 13:38:07	
P5266-01 ME28Y6	S	CNEPA-NEW	P	0.3252	µg/l	12/18/2024 13:38:08	
P5266-02 ME28Y7	S	CNEPA-NEW	P	3.1713	µg/l	12/18/2024 13:45:30	
P5266-03 ME28Y8	S	CNEPA-NEW	P	10.3673	µg/l	12/18/2024 13:45:31	
P5266-04 ME28Y9	S	CNEPA-NEW	P	9.4033	µg/l	12/18/2024 13:45:32	
P5266-05 ME28Z0	S	CNEPA-NEW	P	7.6453	µg/l	12/18/2024 13:45:33	
P5266-06 ME28Z1	S	CNEPA-NEW	P	1.6364	µg/l	12/18/2024 13:45:34	
P5266-07 ME28Z2	S	CNEPA-NEW	P	7.9183	µg/l	12/18/2024 13:45:35	
P5266-08 ME28Z3	S	CNEPA-NEW	P	9.3444	µg/l	12/18/2024 13:45:36	
P5266-09 ME28Z4	S	CNEPA-NEW	P	5.1147	µg/l	12/18/2024 13:45:37	
P5266-10 ME28Z5	S	CNEPA-NEW	P	5.3735	µg/l	12/18/2024 13:45:38	
P5266-11 ME28Z6	S	CNEPA-NEW	P	4.4545	µg/l	12/18/2024 13:45:39	
P5266-12 ME28Z7	S	CNEPA-NEW	P	-0.2594	µg/l	12/18/2024 13:45:40	
P5266-13 ME28Z8	S	CNEPA-NEW	P	0.4309	µg/l	12/18/2024 13:53:05	
P5266-14 ME28Z9	S	CNEPA-NEW	P	0.6713	µg/l	12/18/2024 13:53:06	
P5266-15 ME2900	S	CNEPA-NEW	P	3.7536	µg/l	12/18/2024 13:53:07	
P5266-16 ME2901	S	CNEPA-NEW	P	1.6681	µg/l	12/18/2024 13:53:08	
P5266-17 ME2902	S	CNEPA-NEW	P	3.6646	µg/l	12/18/2024 13:53:09	
P5266-18 ME2903	S	CNEPA-NEW	P	88.1831	µg/l	12/18/2024 13:53:10	
P5266-19 ME28Y9D	S	CNEPA-NEW	P	9.1227	µg/l	12/18/2024 13:53:11	
P5266-20 ME28Y9S	S	CNEPA-NEW	P	103.0024	µg/l	12/18/2024 13:53:12	
CCV002 CCV002	S	CNEPA-NEW	P	253.4375	µg/l	12/18/2024 13:56:28	
CCB002 CCB002	S	CNEPA-NEW	P	1.048	µg/l	12/18/2024 13:56:29	

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC  
284 Sheffield Street, Mountainside, NJ 07092

12/18/2024 12:36

Reviewed by : NF

Instrument ID : Konelab

Test CNEPA-NEW

Accepted 12/18/2024 12:36

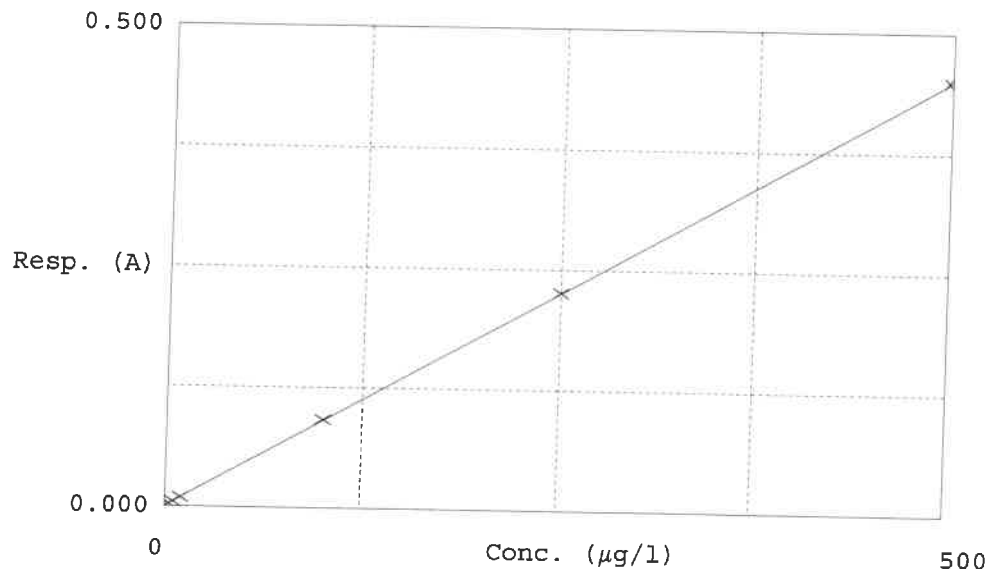
~~Factor~~ *slope* ~~1113~~ 0.000899  
~~Bias~~ *intercept* 0.001

NF

12.19.2024

Coeff. of det. 0.999988

Errors



Calibrator	Response	Calc. con.	Conc.	Errors
1 <del>0.0</del> 0.0PPBCN	0.000	-0.4635	0.0000	
2 <del>5.0</del> 5.0PPBCN	0.005	4.6831	5.0000	-6.3
3 <del>10.0</del> 10PPBCN	0.009	9.5610	10.0000	-4.4
4 <del>100.0</del> 100PPBCN	0.092	101.1074	100.0000	1.1
5 <del>250.0</del> 250PPBCN	0.226	250.6432	250.0000	0.3
6 <del>500.0</del> 500PPBCN	0.450	499.4689	500.0000	-0.1

NF

12.18.2024

## Prep Standard - Chemical Standard Summary

**Order ID :** P5266

**Test :** Cyanide

**Prepbatch ID :** PB165712,

**Sequence ID/Qc Batch ID:** LB133995,

**Standard ID :**

WP108640,WP108688,WP109089,WP110103,WP110390,WP110391,WP110899,WP111116,WP111117,WP111118,WP111119,WP111120,WP111121,WP111122,WP111123,WP111124,WP111128,

**Chemical ID :**

E3657,M5673,M5951,W2668,W2882,W3001,W3011,W3019,W3112,W3113,W3139,W3154,



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
11	Sodium hydroxide absorbing solution 0.25 N	<a href="#">WP108640</a>	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_S CALE_4 (WC SC-4)	None	Iwona Zarych  07/08/2024
<b><u>FROM</u></b> 21.00000L of W3112 + 210.00000gram of E3657 = Final Quantity: 21.000 L								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1581	Sodium hydroxide solution, 1.25N	<a href="#">WP108688</a>	07/11/2024	01/11/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych  07/11/2024
<u>FROM</u>	50.00000gram of W3113 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml							



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
2816	CN-EPA Pyridine-Burbituric Acid solution	<a href="#">WP109089</a>	08/07/2024	12/27/2024	Rubina Mughal	WETCHEM_SCALE_5 (WC SC-5)	None	Iwona Zarych 08/07/2024
<b><u>FROM</u></b> 15.00000gram of W2882 + 15.00000ml of M5951 + 75.00000ml of W3019 + 895.00000ml of W3112 = Final Quantity: 1000.000 ml								

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
539	CN BUFFER	<a href="#">WP110103</a>	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych  10/08/2024
<u>FROM</u>	138.00000gram of W2668 + 862.00000ml of W3112 = Final Quantity: 1000.000 ml							





<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	<a href="#">WP110390</a>	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych  10/24/2024
<u>FROM</u>	500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1714	Sulfuric Acid, 50% (v/v)	<a href="#">WP110391</a>	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024
<b><u>FROM</u></b> 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml								

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
3850	Cyanide MS-MSD spiking solution, 5PPM	<a href="#">WP110899</a>	12/02/2024	01/05/2025	Iwona Zarych	None	WETCHEM_FIPETTE_3 (WC)	Jignesh Parikh 12/03/2024

**FROM** 1.00000ml of W3154 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1585	Cyanide Intermediate standard solution, 10PPM	<a href="#">WP111116</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 12/18/2024

**FROM** 1.00000ml of W3154 + 79.00000ml of W3112 + 20.00000ml of WP108688 = Final Quantity: 100.000 ml

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1586	Cyanide Cal Std, 500 PPB	<a href="#">WP11117</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 12/18/2024

**FROM** 5.00000ml of WP11116 + 95.00000ml of WP108640 = Final Quantity: 0.100 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1587	Cyanide Cal Std, 250 PPB	<a href="#">WP11118</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 12/18/2024

**FROM** 2.50000ml of WP11116 + 97.50000ml of WP108640 = Final Quantity: 0.100 L

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1588	Cyanide Cal Std, 100 PPB	<a href="#">WP111119</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 12/18/2024

**FROM** 1.00000ml of WP111116 + 99.00000ml of WP108640 = Final Quantity: 0.100 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1589	Cyanide Cal Std, 10 PPB	<a href="#">WP111120</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 12/18/2024

**FROM** 4.00000ml of WP111118 + 96.00000ml of WP108640 = Final Quantity: 0.100 L

## Wet Chemistry STANDARD PREPARATION LOG

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1590	Cyanide Cal Std, 5 PPB	<a href="#">WP111121</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 12/18/2024

**FROM** 2.00000ml of WP111118 + 98.00000ml of WP108640 = Final Quantity: 0.100 L

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1591	Cyanide blank std, 0 PPB	<a href="#">WP111122</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	None	Iwona Zarych 12/18/2024

**FROM** 100.00000ml of WP108640 = Final Quantity: 0.100 L



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1763	Cyanide ICV Std	<a href="#">WP111123</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/18/2024
<u>FROM</u>	0.50000ml of W3011 + 49.50000ml of WP108640 = Final Quantity: 50.000 ml							

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1592	Cyanide CCV Std, 250 PPB	<a href="#">WP111124</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 12/18/2024
<b><u>FROM</u></b> 2.50000ml of WP111116 + 97.50000ml of WP108640 = Final Quantity: 0.100 L								



<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
1582	Chloramine T solution, 0.014M	<a href="#">WP111128</a>	12/18/2024	12/19/2024	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-5)	None	Iwona Zarych 12/18/2024
<u>FROM</u>	0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml							

## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	PC19510-5 / Sodium Hydroxide Pellets 2.5 Kg, Pk of 4	23B1556310	12/31/2025	12/04/2023 / Rajesh	12/01/2023 / Rajesh	E3657

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	09/21/2023 / mohan	09/05/2023 / mohan	M5673

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	12/27/2024	07/04/2024 / Jaswal	06/23/2024 / Al-Terek	M5951

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, CRYST, 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 #
PCI Scientific Supply, Inc.	EM-BX0035-3 / Barbituric Acid, 100 gms	1.00132.0100	04/30/2025	12/07/2021 / jaswal	11/30/2021 / apatel	W2882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	01237-10KG / Magnesium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / lwona	06/06/2022 / lwona	W3001



## CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	/ ICV-CN	ICV6-400	12/31/2024	01/03/2024 / lwona	02/20/2020 / lwona	W3011

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 / lwona	04/03/2023 / lwona	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 / lwona	07/03/2024 / lwona	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 / lwona	07/08/2024 / lwona	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 / lwona	09/09/2024 / lwona	W3139

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	1411J58	05/31/2025	12/02/2024 / lwona	12/02/2024 / lwona	W3154

W2918  
W3001  
rec. 06/06/22  
exp. 06/06/27

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## Chem-Impex International, Inc.

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**Tel:** (630) 766-2112  
**E-mail:** sales@chemimpex.com  
**Shipping and Correspondence:**  
935 Dillon Drive  
Wood Dale, IL 60191

**Fax:** (630) 766-2218  
**Web site:** www.chemimpex.com  
**Manufacturing site:**  
825 Dillon Drive  
Wood Dale, IL 60191

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### Certificate of Analysis

<b>Catalogue Number</b>	01237
<b>Product</b>	<b>Magnesium chloride hexahydrate</b>
<b>Lot Number</b>	002251-03319 Magnesium chloride•6H <sub>2</sub> O
<b>CAS Number</b>	7791-18-6
<b>Molecular Formula</b>	MgCl <sub>2</sub> •6H <sub>2</sub> O
<b>Molecular Weight</b>	203.3

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<b>Appearance</b>	Colorless crystals, very deliquescent
<b>Heavy Metals</b>	< 5 ppm
<b>Anion</b>	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
<b>Cation</b>	Ammonium : < 0.002% Barium : < 0.005% Calcium : 0.0006% Iron : < 5 ppm Manganese : 1.8 ppm Potassium : 0.0006% Sodium : 0.0008% Strontium : 0.0015%
<b>Insoluble material</b>	0.0025%
<b>Assay by titration</b>	100.29%
<b>Grade</b>	ACS reagent
<b>Storage</b>	Store at RT
<b>Country of Origin</b>	India

## ***Certificate of Analysis***

**Catalog Number: 01237**

**Lot Number: 002251-03319**

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**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**

W3019  
rec 4/3/23

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: [www.sigmaaldrich.com](http://www.sigmaaldrich.com)Email USA: [techserv@sial.com](mailto:techserv@sial.com)Outside USA: [eurtechserv@sial.com](mailto: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:

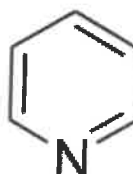
C<sub>5</sub>H<sub>5</sub>N

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

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](http://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.





# 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:

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

Storage: Room Temperature

Pellets

TEST	SPECIFICATION	ANALYSIS	DISPOSITION
Calcium	$\leq 0.005 \%$	$< 0.005 \%$	PASS
Chloride	$\leq 0.005 \%$	0.002 %	PASS
Heavy Metals	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Iron	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Magnesium	$\leq 0.002 \%$	$< 0.002 \%$	PASS
Mercury	$\leq 0.1 \text{ ppm}$	$< 0.1 \text{ ppm}$	PASS
Nickel	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Nitrogen Compounds	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Phosphate	$\leq 0.001 \%$	$< 0.001 \%$	PASS
Potassium	$\leq 0.02 \%$	$< 0.02 \%$	PASS
Purity	$\geq 97.0 \%$	99.2 %	PASS
Sodium Carbonate	$\leq 1.0 \%$	0.5 %	PASS
Sulfate	$\leq 0.003 \%$	$< 0.003 \%$	PASS

Internal ID #: 710

### Signature

We certify that this batch conforms to the specifications listed.

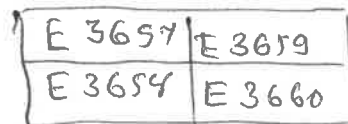
This document has been electronically produced and is valid without a signature.

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.





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 µg/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.



Instructions for QATS Reference Material: *Inorganic ICV Solutions*

**ICV1-1014** For ICP-MS analysis, 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  $K_3Fe(CN)_6$ , 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	2500	500
Sb	1000	200
As	1000	200
Ba	520	100
Be	510	100
Cd	510	100
Ca	10000	2000
Cr	520	100
Co	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
Tl	1000	210
V	500	100
Zn	1000	200

ICV5-0415		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

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

 **avantor**™



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 SO <sub>2</sub> )	≤ 2 ppm	< 2 ppm
Ammonium (NH <sub>4</sub> )	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 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 (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



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

Test	Specification	Result
Trace Impurities – Sodium (Na)	$\leq 500.0$ ppb	5.4 ppb
Trace Impurities – Strontium (Sr)	$\leq 5.0$ ppb	< 0.2 ppb
Trace Impurities – Tin (Sn)	$\leq 5.0$ ppb	< 0.8 ppb
Trace Impurities – Zinc (Zn)	$\leq 5.0$ 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

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



MS947 MS948 MS949  
MS950 MS951 MS952

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 <sub>2</sub> )	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO <sub>4</sub> )	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO <sub>4</sub> )	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO <sub>3</sub> )	≤ 0.8 ppm	0.3 ppm
Ammonium (NH <sub>4</sub> )	≤ 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™**



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

 **avantorsm**

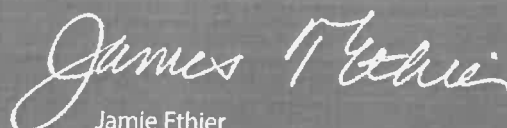


Material No.: 9530-33  
Batch No.: 22G2862015

Test	Specification	Result
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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



Jamie Ethier  
Vice President Global Quality



# Certificate of Analysis

1.00132.0000 Barbituric acid for analysis EMSURE®  
Batch N020065932

	Spec. Values		Batch Values	
Assay (acidimetric)	≥ 99	%	99.6	%
Identity (IR-spectrum)	passes test		passes test	
Chloride (Cl)	≤ 40	ppm	≤ 40	ppm
Heavy metals (as Pb)	≤ 50	ppm	≤ 50	ppm
Fe (Iron)	≤ 10	ppm	≤ 10	ppm
Sulfated ash	≤ 0.1	%	≤ 0.1	%
Loss on Drying (105 °C)	≤ 0.1	%	≤ 0.1	%
Suitability as reagent (for cyanide determination)	passes test		passes test	

Date of release (DD.MM.YYYY) 17.04.2020  
Minimum shelf life (DD.MM.YYYY) 30.04.2025

Ioannis Chartomatsidis  
Responsible laboratory manager quality control

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

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 ( $\text{NaH}_2\text{PO}_4 \cdot \text{H}_2\text{O}$ )	98.0 – 102.0 %	99.5
pH of 5% Solution at 25°C	4.1 – 4.5	4.3
Insoluble Matter	$\leq 0.01$ %	$< 0.01$
Chloride (Cl)	$\leq 5$ ppm	$< 5$
ACS – Sulfate ( $\text{SO}_4$ )	$\leq 0.003$ %	$< 0.003$
Calcium (Ca)	$\leq 0.005$ %	$< 0.005$
Potassium (K)	$\leq 0.01$ %	$< 0.01$
Heavy Metals (as Pb)	$\leq 0.001$ %	$< 0.001$
Trace Impurities – Iron (Fe)	$\leq 0.001$ %	$< 0.001$

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:

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

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

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.



## Sodium Hydroxide (Pellets)

**Material:** 0583  
**Grade:** ACS GRADE  
**Batch Number:** 23B1556310

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

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

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.



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

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**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.



# Certificate of Analysis

## Cyanide Standard, 1000 ppm CN<sup>-</sup>

**Lot Number:** 1411J58**Product Number:** 2543**Manufacture Date:** NOV 22, 2024**Expiration Date:** MAY 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

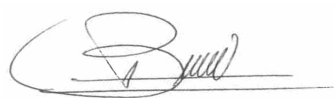
Test	Specification	Result
Appearance	Colorless liquid	Passed
Cyanide (CN <sup>-</sup> )	995-1005 ppm	1000 ppm

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 <sup>-</sup> )	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 <sup>-</sup> )	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)

A handwritten signature in black ink, appearing to read 'L. Briceno', with a horizontal line underneath.

Luis Briceno (11/22/2024)  
Operations Supervisor

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

SOP ID : MSFAM01.1-Cyanide-2

SDG No : ME28Y6

Matrix : SOIL

Pipette ID : WC

Balance ID : WC SC-7

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : JP

Start Digest Date: 12/18/2024 Time : 08:00 Temp : 123 °C

End Digest Date: 12/18/2024 Time : 09:30 Temp : 127 °C

*II batch*  
 12/18/2024 10:00 123 °C  
 12/18/2024 11:30 128 °C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

 Prep Technician Signature: *rd*

pH Meter ID : N/A

Supervisor Signature: 12

Standard Name	MLS USED	STD REF. # FROM LOG
PBS003	50.0ML	W3112
MATRIX SPIKE SOLUTION	1.0ML	WP110899
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
0.25N NaOH	50.0ML	WP108640
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
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	50.0ML	WP111122 <i>II batch</i>
S5.0	S5.0	50.0ML	WP111121 ✓
S10.0	S10.0	50.0ML	WP111120 ✓
S100.0	S100.0	50.0ML	WP111119 //
S250.0	S250.0	50.0ML	WP111118 //
S500.0	S500.0	50.0ML	WP111117 //
ICV	ICV	50.0ML	WP111123 ✓
ICB	ICB	50.0ML	WP108640 //
CCV	CCV	50.0ML	WP111124 ✓
CCB	CCB	50.0ML	WP108640 ✓
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

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

 MIDI-DISTILLATION\_SOIL; I-ST BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 126C; II-ND BATCH MC-2  
 START TEMP:123 C; MC-2 END TEMP: 127 C; Block Therm.ID: WC-CYANIDE-2

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12-18-2024, 11:45	<i>rd</i> CUCG	NFCwey
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
P5266-01	ME28Y6	1.01	50	N/A	N/A	N/A	N/A	N/A <i>Batch</i>	N/A
P5266-02	ME28Y7	1.04	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-03	ME28Y8	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-04	ME28Y9	1.01	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-05	ME28Z0	1.05	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-06	ME28Z1	1.01	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-07	ME28Z2	1.03	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-08	ME28Z3	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11 Batch</i>	N/A
P5266-09	ME28Z4	1.04	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-10	ME28Z5	1.01	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-11	ME28Z6	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-12	ME28Z7	1.03	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-13	ME28Z8	1.04	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-14	ME28Z9	1.05	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-15	ME2900	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-16	ME2901	1.03	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-17	ME2902	1.04	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-18	ME2903	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-19	ME28Y9D	1.10	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
P5266-20	ME28Y9S	1.02	50	N/A	N/A	N/A	N/A	N/A <i>11</i>	N/A
PB165712BL	PBS712	1.00	50	N/A	N/A	N/A	N/A	N/A <i>11 Batch</i>	N/A

**Instrument ID:** KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133995**

Review By	Niha Farheen Shaik	Review On	12/19/2024 11:00:05 AM
Supervise By	Iwona Zarych	Supervise On	12/19/2024 3:37:43 PM

STD. NAME	STD REF.#
ICAL Standard	WP111122,WP111121,WP111120,WP111119,WP111118,WP111117
ICV Standard	WP111123
CCV Standard	WP111124
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP109089,WP111128

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0.0	S0	CAL1	12/18/24 12:36		Niha	OK
2	S5.0	S01	CAL2	12/18/24 12:36		Niha	OK
3	S10.0	S02	CAL3	12/18/24 12:36		Niha	OK
4	S100.0	S03	CAL4	12/18/24 12:36		Niha	OK
5	S250.0	S04	CAL5	12/18/24 12:36		Niha	OK
6	S500.0	S05	CAL6	12/18/24 12:36		Niha	OK
7	ICV001	ICV001	ICV	12/18/24 13:37		Niha	OK
8	ICB001	ICB001	ICB	12/18/24 13:38		Niha	OK
9	CCV001	CCV001	CCV	12/18/24 13:38		Niha	OK
10	CCB001	CCB001	CCB	12/18/24 13:38		Niha	OK
11	PB165712BL	PBS712	MB	12/18/24 13:38		Niha	OK
12	P5266-01	ME28Y6	SAM	12/18/24 13:38		Niha	OK
13	P5266-02	ME28Y7	SAM	12/18/24 13:45		Niha	OK
14	P5266-03	ME28Y8	SAM	12/18/24 13:45		Niha	OK
15	P5266-04	ME28Y9	SAM	12/18/24 13:45		Niha	OK
16	P5266-05	ME28Z0	SAM	12/18/24 13:45		Niha	OK
17	P5266-06	ME28Z1	SAM	12/18/24 13:45		Niha	OK
18	P5266-07	ME28Z2	SAM	12/18/24 13:45		Niha	OK

Instrument ID: KONELAB

**Daily Analysis Runlog For Sequence/QC Batch ID # LB133995**

Review By	Niha Farheen Shaik	Review On	12/19/2024 11:00:05 AM
Supervise By	Iwona Zarych	Supervise On	12/19/2024 3:37:43 PM
<b>STD. NAME</b>	<b>STD REF.#</b>		
ICAL Standard	WP111122,WP111121,WP111120,WP111119,WP111118,WP111117		
ICV Standard	WP111123		
CCV Standard	WP111124		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	WP110103,WP109089,WP111128		

19	P5266-08	ME28Z3	SAM	12/18/24 13:45		Niha	OK
20	P5266-09	ME28Z4	SAM	12/18/24 13:45		Niha	OK
21	P5266-10	ME28Z5	SAM	12/18/24 13:45		Niha	OK
22	P5266-11	ME28Z6	SAM	12/18/24 13:45		Niha	OK
23	P5266-12	ME28Z7	SAM	12/18/24 13:45		Niha	OK
24	P5266-13	ME28Z8	SAM	12/18/24 13:53		Niha	OK
25	P5266-14	ME28Z9	SAM	12/18/24 13:53		Niha	OK
26	P5266-15	ME2900	SAM	12/18/24 13:53		Niha	OK
27	P5266-16	ME2901	SAM	12/18/24 13:53		Niha	OK
28	P5266-17	ME2902	SAM	12/18/24 13:53		Niha	OK
29	P5266-18	ME2903	SAM	12/18/24 13:53		Niha	OK
30	P5266-19	ME28Y9D	DUP	12/18/24 13:53		Niha	OK
31	P5266-20	ME28Y9S	MS	12/18/24 13:53		Niha	OK
32	CCV002	CCV002	CCV	12/18/24 13:56		Niha	OK
33	CCB002	CCB002	CCB	12/18/24 13:56		Niha	OK