

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCH8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-15
% Solids: 79.9 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.60	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCH9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-16
% Solids: 86.6 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.55	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCJ0

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-17
% Solids: 80.9 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.60	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCJ1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-18
% Solids: 77.2 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.62	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCJ2

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-19
% Solids: 75.7 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.65	U	10/25/2024	1244

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

Comments:

EPA SAMPLE NO.

MBHCJ3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-20
% Solids: 86.9 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.57	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCJ5

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-21
% Solids: 84.3 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.57	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHCJ6

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-22
% Solids: 80.7 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.38	J	10/25/2024	1251

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDD1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-01
% Solids: 82.7 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.60	U	10/25/2024	1229

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

Comments:

EPA SAMPLE NO.

MBHDD2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-02
% Solids: 83.3 Date Received: 10/23/2024

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	10/25/2024	1236

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDD8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-03
% Solids: 94.7 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.52	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDD9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-04
% Solids: 90 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.55	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE0

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-05
% Solids: 85.9 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.55	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-06
% Solids: 76.4 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.65	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE2

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-07
% Solids: 78.3 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.62	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-08
% Solids: 86.8 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.56	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-09
% Solids: 83.5 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	10/25/2024	1315

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

Comments:

EPA SAMPLE NO.

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDF0

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-10
% Solids: 86.7 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.56	U	10/25/2024	1236

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDF1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-13
% Solids: 85.6 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	10/25/2024	1244

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDF2

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51698 MA No. : SDG No.: MBHCH8
Matrix: SOIL Lab Sample ID: P4498-14
% Solids: 84 Date Received: 10/23/2024
Analytical Method: CN
Concentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	0.58	U	10/25/2024	1244

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

Comments:

Test results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC
284 Sheffield Street, Mountainside, NJ 07092Reviewed by : NF Instrument ID : Konelab

10/25/2024 14:04

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Errors
ICV001 ICV001	96.880	0.0	0.086	
ICB001 ICB001	0.447	0.0	0.001	
CCV001 CCV001	247.147	0.0	0.219	
CCB001 CCB001	0.262	0.0	0.001	
PB164384 PBS384	0.160	0.0	0.001	
P4498-01 MBHDD1	-0.050	0.0	0.001	
P4498-02 MBHDD2	0.016	0.0	0.001	
P4498-03 MBHDD8	-0.013	0.0	0.001	
P4498-04 MBHDD9	0.272	0.0	0.001	
P4498-05 MBHDE0	-0.102	0.0	0.000	
P4498-06 MBHDE1	0.429	0.0	0.001	
P4498-07 MBHDE2	0.520	0.0	0.001	
P4498-08 MBHDE8	2.068	0.0	0.002	
P4498-10 MBHDF0	0.055	0.0	0.001	
P4498-11 MBHDF0D	-0.443	0.0	0.000	
P4498-12 MBHDF0S	92.226	0.0	0.082	
P4498-13 MBHDF1	0.532	0.0	0.001	
P4498-14 MBHDF2	0.775	0.0	0.001	
P4498-15 MBHCH8	1.187	0.0	0.002	
P4498-16 MBHCH9	-0.115	0.0	0.000	
P4498-17 MBHCJ0	0.666	0.0	0.001	
P4498-18 MBHCJ1	0.874	0.0	0.001	
P4498-19 MBHCJ2	0.375	0.0	0.001	
P4498-20 MBHCJ3	0.699	0.0	0.001	
P4498-21 MBHCJ5	0.690	0.0	0.001	
P4498-22 MBHCJ6	6.280	0.0	0.006	
CCV002 CCV002	237.625	0.0	0.211	
CCB002 CCB002	1.059	0.0	0.002	
PB164385 PBS385	1.123	0.0	0.002	
P4499-01 MBHCJ7	0.526	0.0	0.001	
P4499-02 MBHCJ8	1.118	0.0	0.002	
P4499-03 MBHCJ9	3.795	0.0	0.004	
P4499-04 MBHCK0	2.613	0.0	0.003	
P4499-05 MBHCK1	2.496	0.0	0.003	
P4499-06 MBHCK2	1.589	0.0	0.002	
P4499-07 MBHCK8	1.733	0.0	0.002	
P4499-09 MBHCL0	0.051	0.0	0.001	
P4499-10 MBHCL1	0.476	0.0	0.001	
P4499-11 MBHCL2	0.606	0.0	0.001	
P4499-12 MBHCY0	0.264	0.0	0.001	
P4499-13 MBHCL8	0.268	0.0	0.001	
P4499-14 MBHCL9	0.681	0.0	0.001	
P4499-15 MBHCM0	0.410	0.0	0.001	
P4499-16 MBHCM1	0.603	0.0	0.001	
P4499-17 MBHCM2	0.280	0.0	0.001	
P4499-18 MBHCM8	1.566	0.0	0.002	
P4499-19 MBHCM9	2.447	0.0	0.003	
P4499-20 MBHCN0	15.353	0.0	0.014	
P4499-21 MBHCN0D	15.678	0.0	0.014	
P4499-22 MBHCN0S	99.058	0.0	0.088	
P4499-08 MBHCK9	0.728	0.0	0.001	
P4498-09 MBHDE9	0.121	0.0	0.001	
CCV003 CCV003	255.865	0.0	0.227	
CCB003 CCB003	0.526	0.0	0.001	

NF
10.25.2024NF
10.25.2024

Test results

Aquakem 7.2AQ1

Page:

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

10/25/2024 14:04

Reviewed by : NF Instrument ID : Konelab

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Ø□,,
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N	54			
Mean	20.380			
SD	59.6957			
CV%	292.92			

Aquakem v. 7.2AQ1

Results from time period:

Fri Oct 25 10:21:12 2024

Fri Oct 25 13:50:28 2024

Sample Id	Sam/C	Test short name	Test type	Result	Result unit	Result date and time
S0.0	A	CNEPA-NEW	P	0.1673	µg/l	10/25/2024 11:21:17
S5.0	A	CNEPA-NEW	P	4.976	µg/l	10/25/2024 11:21:18
S10.0	A	CNEPA-NEW	P	10.4804	µg/l	10/25/2024 11:21:19
S100.0	A	CNEPA-NEW	P	100.863	µg/l	10/25/2024 11:21:20
S250.0	A	CNEPA-NEW	P	247.3906	µg/l	10/25/2024 11:21:21
S500.0	A	CNEPA-NEW	P	501.1227	µg/l	10/25/2024 11:21:22
ICV001 ICV001	S	CNEPA-NEW	P	96.8795	µg/l	10/25/2024 12:29:09
ICB001 ICB001	S	CNEPA-NEW	P	0.4472	µg/l	10/25/2024 12:29:11
CCV001 CCV001	S	CNEPA-NEW	P	247.1472	µg/l	10/25/2024 12:29:13
CCB001 CCB001	S	CNEPA-NEW	P	0.262	µg/l	10/25/2024 12:29:15
PB164384BL PBS384	S	CNEPA-NEW	P	0.1598	µg/l	10/25/2024 12:29:17
P4498-01 MBHDD1	S	CNEPA-NEW	P	-0.0498	µg/l	10/25/2024 12:29:18
P4498-02 MBHDD2	S	CNEPA-NEW	P	0.0159	µg/l	10/25/2024 12:36:42
P4498-03 MBHDD8	S	CNEPA-NEW	P	-0.0126	µg/l	10/25/2024 12:36:43
P4498-04 MBHDD9	S	CNEPA-NEW	P	0.272	µg/l	10/25/2024 12:36:44
P4498-05 MBHDE0	S	CNEPA-NEW	P	-0.1023	µg/l	10/25/2024 12:36:45
P4498-06 MBHDE1	S	CNEPA-NEW	P	0.4293	µg/l	10/25/2024 12:36:46
P4498-07 MBHDE2	S	CNEPA-NEW	P	0.5197	µg/l	10/25/2024 12:36:48
P4498-08 MBHDE8	S	CNEPA-NEW	P	2.0677	µg/l	10/25/2024 12:36:49
P4498-10 MBHDF0	S	CNEPA-NEW	P	0.0554	µg/l	10/25/2024 12:36:51
P4498-11 MBHDF0D	S	CNEPA-NEW	P	-0.4425	µg/l	10/25/2024 12:36:52
P4498-12 MBHDF0S	S	CNEPA-NEW	P	92.2264	µg/l	10/25/2024 12:44:18
P4498-13 MBHDF1	S	CNEPA-NEW	P	0.5319	µg/l	10/25/2024 12:44:20
P4498-14 MBHDF2	S	CNEPA-NEW	P	0.7747	µg/l	10/25/2024 12:44:21
P4498-15 MBHCH8	S	CNEPA-NEW	P	1.1874	µg/l	10/25/2024 12:44:22
P4498-16 MBHCH9	S	CNEPA-NEW	P	-0.1153	µg/l	10/25/2024 12:44:23
P4498-17 MBHCJ0	S	CNEPA-NEW	P	0.6662	µg/l	10/25/2024 12:44:24
P4498-18 MCHCJ1	S	CNEPA-NEW	P	0.8739	µg/l	10/25/2024 12:44:25
P4498-19 MBHCJ2	S	CNEPA-NEW	P	0.3745	µg/l	10/25/2024 12:44:26
P4498-20 MBHCJ3	S	CNEPA-NEW	P	0.6986	µg/l	10/25/2024 12:44:27
P4498-21 MBHCJ5	S	CNEPA-NEW	P	0.6903	µg/l	10/25/2024 12:44:28
P4498-22 MBHCJ6	S	CNEPA-NEW	P	6.2798	µg/l	10/25/2024 12:51:50
CCV002 CCV002	S	CNEPA-NEW	P	237.6251	µg/l	10/25/2024 12:51:51
CCB002 CCB002	S	CNEPA-NEW	P	1.0587	µg/l	10/25/2024 12:51:52
PB164385BL PBS385	S	CNEPA-NEW	P	1.1227	µg/l	10/25/2024 12:51:53
P4499-01 MBHCJ7	S	CNEPA-NEW	P	0.5265	µg/l	10/25/2024 12:51:54
P4499-02 MBHCJ8	S	CNEPA-NEW	P	1.1185	µg/l	10/25/2024 12:51:55
P4499-03 MBHCJ9	S	CNEPA-NEW	P	3.7953	µg/l	10/25/2024 12:51:56
P4499-04 MBHCK0	S	CNEPA-NEW	P	2.6125	µg/l	10/25/2024 12:51:57

P4499-05 MBHCK1	S	CNEPA-NEW	P	2.4957 µg/l	10/25/2024 12:51:58
P4499-06 MBHCK2	S	CNEPA-NEW	P	1.5894 µg/l	10/25/2024 12:51:59
P4499-07 MBHCK8	S	CNEPA-NEW	P	1.7334 µg/l	10/25/2024 12:52:00
P4499-09 MBHCL0	S	CNEPA-NEW	P	0.0509 µg/l	10/25/2024 12:58:50
P4499-10 MBHCL1	S	CNEPA-NEW	P	0.4764 µg/l	10/25/2024 12:58:51
P4499-11 MBHCL2	S	CNEPA-NEW	P	0.6065 µg/l	10/25/2024 12:58:52
P4499-12 MBHCY0	S	CNEPA-NEW	P	0.2637 µg/l	10/25/2024 12:58:53
P4499-13 MBHCL8	S	CNEPA-NEW	P	0.2685 µg/l	10/25/2024 12:58:54
P4499-14 MBHCL9	S	CNEPA-NEW	P	0.6809 µg/l	10/25/2024 12:58:55
P4499-15 MBHCM0	S	CNEPA-NEW	P	0.4103 µg/l	10/25/2024 13:15:45
P4499-16 MBHCM1	S	CNEPA-NEW	P	0.603 µg/l	10/25/2024 13:15:46
P4499-17 MBHCM2	S	CNEPA-NEW	P	0.2802 µg/l	10/25/2024 13:15:47
P4499-18 MBHCM8	S	CNEPA-NEW	P	1.5664 µg/l	10/25/2024 13:15:48
P4499-19 MBHCM9	S	CNEPA-NEW	P	2.4466 µg/l	10/25/2024 13:15:49
P4499-20 MBHCN0	S	CNEPA-NEW	P	15.3533 µg/l	10/25/2024 13:15:50
P4499-21 MBHCN0D	S	CNEPA-NEW	P	15.6775 µg/l	10/25/2024 13:15:51
P4499-22 MBHCN0S	S	CNEPA-NEW	P	99.0579 µg/l	10/25/2024 13:15:53
P4499-08 MBHCK9	S	CNEPA-NEW	P	0.7276 µg/l	10/25/2024 13:15:54
P4498-09 MBHDE9	S	CNEPA-NEW	P	0.1212 µg/l	10/25/2024 13:15:55
CCV003 CCV003	S	CNEPA-NEW	P	255.8655 µg/l	10/25/2024 13:20:05
CCB003 CCB003	S	CNEPA-NEW	P	0.5257 µg/l	10/25/2024 13:20:06

Calibration results

Aquakem 7.2AQ1

Page:

CHEMTECH CONSULTING GROUP INC

284 Sheffield Street, Mountainside, NJ 07092

Reviewed by : NF

Instrument ID : Konelab

10/25/2024 11:21

Test CNEPA-NEW

Accepted

10/25/2024 11:21

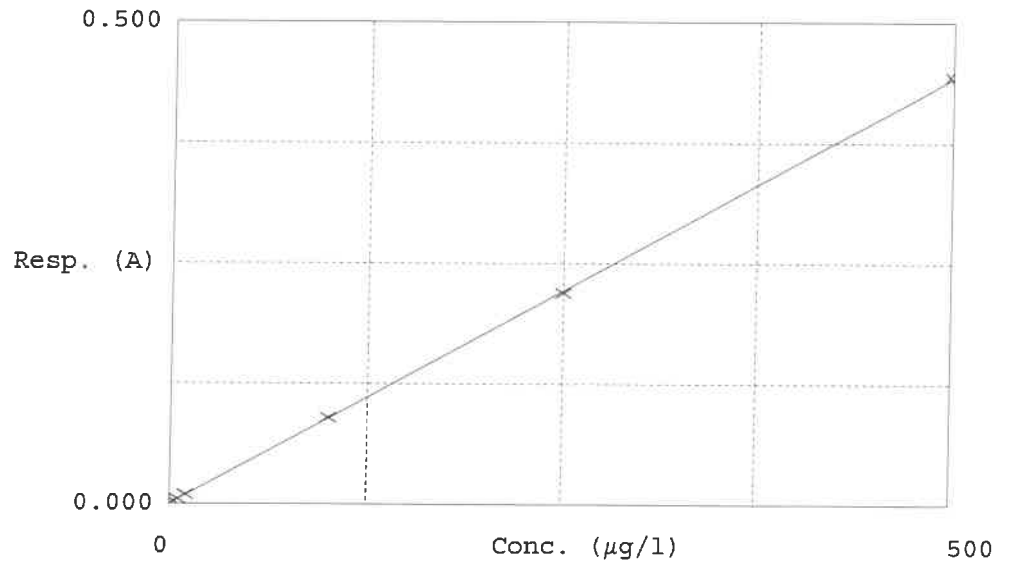
~~Factor~~ Slope ~~1131~~ 0.000884
~~Bias~~ Intercept 0.001

NF

10.30.2024

Coeff. of det. 0.999954

Errors



	Calibrator	Response	Calc. con.	Conc.	R_c Errors
1	0.0PPBCN <u>50.0</u>	0.001	0.1673	0.0000	<u>0</u>
2	5.0PPBCN <u>55.0</u>	0.005	4.9760	5.0000	<u>-0.5</u>
3	10PPBCN <u>56.0</u>	0.010	10.4804	10.0000	<u>4.8</u>
4	100PPBCN <u>560.0</u>	0.090	100.8630	100.0000	<u>0.9</u>
5	250PPBCN <u>5250.0</u>	0.219	247.3906	250.0000	<u>-1.0</u>
6	500PPBCN <u>5500.0</u>	0.444	501.1227	500.0000	<u>0.2</u>

NF

10.25.2024

Prep Standard - Chemical Standard Summary

Order ID : P4498

Test : Cyanide

Prepbatch ID : PB164384,

Sequence ID/Qc Batch ID: LB133132,

Standard ID :

WP108640,WP108688,WP109089,WP110035,WP110103,WP110389,WP110390,WP110391,WP110392,WP110393,W
P110394,WP110395,WP110396,WP110397,WP110398,WP110399,WP110434,

Chemical ID :

E3657,M5673,M5951,W2668,W2882,W3001,W3011,W3019,W3112,W3113,W3139,W3142,



<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	WP108640	07/05/2024	01/05/2025	Rubina Mughal	WETCHEM_S CALE_4 (WC SC-4)	None	Iwona Zarych 07/08/2024
<u>FROM</u> 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	WP108688	07/11/2024	01/11/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCS-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	WP109089	08/07/2024	12/27/2024	Rubina Mughal	WETCHEM_S CALE_5 (WC SC-5)	None	Iwona Zarych 08/07/2024
<u>FROM</u> 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>
3850	Cyanide MS-MSD spiking solution, 5PPM	WP110035	10/03/2024	11/30/2024	Rubina Mughal	None	WETCHEM_PIPETTE_3	Iwona Zarych
<p>(WC)</p> <p>FROM 1.00000ml of W3142 + 199.00000ml of WP108640 = Final Quantity: 200.000 ml</p>								

<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	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCS-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>
1585	Cyanide Intermediate standard solution, 10PPM	WP110389	10/24/2024	10/25/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych 10/24/2024
<u>FROM</u>	1.00000ml of W3142 + 79.00000ml of W3112 + 20.00000ml of WP108688 = Final Quantity: 100.000 ml (WC)							



<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)	WP110390	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)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024
<u>FROM</u> 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>
1586	Cyanide Cal Std, 500 PPB	WP110392	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/25/2024

FROM 5.00000ml of WP110389 + 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	WP110393	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/25/2024

FROM 2.50000ml of WP110389 + 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	WP110394	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych
								10/25/2024

FROM 1.00000ml of WP110389 + 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	WP110395	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych
								10/25/2024

FROM 4.00000ml of WP110393 + 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	WP110396	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/25/2024

FROM 2.00000ml of WP110393 + 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	WP110397	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/25/2024

FROM 100.00000ml 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>
1763	Cyanide ICV Std	WP110398	10/24/2024	10/25/2024	Niha Farheen Shaik	None	WETCHEM_FIPETTE_3 (WC)	Iwona Zarych 10/25/2024

FROM 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	WP110399	10/24/2024	10/25/2024	Niha Farheen Shaik	None	None	Iwona Zarych 10/25/2024

FROM 2.50000ml of WP110389 + 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	WP110434	10/25/2024	10/26/2024	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3	Iwona Zarych
<p><u>FROM</u> 0.08000gram of W3139 + 20.00000ml of W3112 = Final Quantity: 20.000 ml</p>								

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	1405J81	11/30/2024	09/25/2024 / lwona	09/25/2024 / lwona	W3142

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

Chem-Impex International, Inc.

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

Certificate of Analysis

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

Appearance	Colorless crystals, very deliquescent
Heavy Metals	< 5 ppm
Anion	Nitrate : < 0.001% Phosphate : < 5 ppm Sulfate : < 0.002%
Cation	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%
Insoluble material	0.0025%
Assay by titration	100.29%
Grade	ACS reagent
Storage	Store at RT
Country of Origin	India

Certificate of Analysis

Catalog Number: 01237

Lot Number: 002251-03319

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.comEmail USA: techserv@sial.comOutside USA: eurtechserv@sial.com

Certificate of Analysis

Product Name:

Pyridine - anhydrous, 99.8%

Product Number:

270970

Batch Number:

SHBQ2113

Brand:

SIAL

CAS Number:

110-86-1

MDL Number:

MFCD00011732

Formula:

C₅H₅N

Formula Weight:

79.10 g/mol

Quality Release Date:

15 DEC 2022



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


Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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.





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 ⁻	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 ₂ SO ₄)	95.0 – 98.0 %	96.1 %
Appearance	Passes Test	Passes Test
ACS – Color (APHA)	≤ 10	5
ACS – Residue after Ignition	≤ 3 ppm	< 1 ppm
ACS – Substances Reducing Permanganate (as SO ₂)	≤ 2 ppm	< 2 ppm
Ammonium (NH ₄)	≤ 1 ppm	1 ppm
Chloride (Cl)	≤ 0.1 ppm	< 0.1 ppm
Nitrate (NO ₃)	≤ 0.2 ppm	< 0.1 ppm
Phosphate (PO ₄)	≤ 0.5 ppm	< 0.1 ppm
Trace Impurities – Aluminum (Al)	≤ 30.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 4.0 ppb	< 2.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	8.5 ppb
Trace Impurities – Cadmium (Cd)	≤ 2.0 ppb	< 0.3 ppb
Trace Impurities – Chromium (Cr)	≤ 6.0 ppb	< 0.4 ppb
Trace Impurities – Cobalt (Co)	≤ 0.5 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gold (Au)	≤ 10.0 ppb	0.5 ppb
Heavy Metals (as Pb)	≤ 500.0 ppb	< 100.0 ppb
Trace Impurities – Iron (Fe)	≤ 50.0 ppb	1.3 ppb
Trace Impurities – Lead (Pb)	≤ 0.5 ppb	< 0.5 ppb
Trace Impurities – Magnesium (Mg)	≤ 7.0 ppb	0.8 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.4 ppb
Trace Impurities – Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Nickel (Ni)	≤ 2.0 ppb	0.3 ppb
Trace Impurities – Potassium (K)	≤ 500.0 ppb	< 2.0 ppb
Trace Impurities – Selenium (Se)	≤ 50.0 ppb	< 0.1 ppb
Trace Impurities – Silicon (Si)	≤ 100.0 ppb	31.5 ppb
Trace Impurities – Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb

>>> Continued on page 2 >>>

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



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

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

For Laboratory, Research, or Manufacturing Use

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


Jamie Ethier
Vice President Global Quality

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

 **avantorsm**



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 ₂)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities – Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities – Aluminum (Al)	≤ 10.0 ppb	1.3 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities – Barium (Ba)	≤ 1.0 ppb	0.2 ppb
Trace Impurities – Beryllium (Be)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Bismuth (Bi)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Boron (B)	≤ 20.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	163.0 ppb
Trace Impurities – Chromium (Cr)	≤ 1.0 ppb	0.7 ppb
Trace Impurities – Cobalt (Co)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities – Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities – Gold (Au)	≤ 4.0 ppb	0.6 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities – Iron (Fe)	≤ 15 ppb	6 ppb

>>> Continued on page 2 >>>

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

 **avantors**™



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



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

James Ethier
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	≤ 0.01 %	< 0.01
Chloride (Cl)	≤ 5 ppm	< 5
ACS – Sulfate (SO_4)	≤ 0.003 %	< 0.003
Calcium (Ca)	≤ 0.005 %	< 0.005
Potassium (K)	≤ 0.01 %	< 0.01
Heavy Metals (as Pb)	≤ 0.001 %	< 0.001
Trace Impurities – Iron (Fe)	≤ 0.001 %	< 0.001

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

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


Jamie Ethier
Vice President Global Quality

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



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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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⁻

Lot Number: 1405J81

Product Number: 2543

Manufacture Date: MAY 20, 2024

Expiration Date: NOV 2024

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 ⁻)	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
2543-4	120 mL amber poly	6 months

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



Heidi J Green (05/20/2024)
Operations Manager

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 : MBHCH8

Matrix : SOLID

Pipette ID : WC

Balance ID : WC SC-4

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : JP

Start Digest Date: 10/24/2024 Time : 10:20 Temp : 123 °C

End Digest Date: 10/24/2024 Time : 11:50 Temp : 126 °C

II batch 10/24/2024 12:15 124 °C
10/24/2024 13:45 127 °C

Digestion tube ID : M5595

Block Thermometer ID : WC CYANIDE

Filter paper ID : N/A

Prep Technician Signature: JP

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	WP110035
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
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	N/A	WP110397 I batch
S5.0	S5.0	N/A	WP110396 "
S10.0	S10.0	N/A	WP110395 "
S100.0	S100.0	N/A	WP110394 "
S250.0	S250.0	N/A	WP110393 "
S500.0	S500.0	N/A	WP110392 "
ICV	ICV	N/A	WP110398 "
ICB	ICB	N/A	WP108640 "
CCV	CCV	N/A	WP110399 "
CCB	CCB	N/A	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: 127 C; II-ND BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 128 C; Block Therm.ID: WC-CYANIDE-2

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
10/24/2024, 14:00	JP / WC	NPLWC
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/Nitrite	Comment	Prep Pos
P4498-01	MBHDD1	1.01	50	N/A	N/A	N/A	N/A	N/A I batch	N/A
P4498-02	MBHDD2	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-03	MBHDD8	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-04	MBHDD9	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-05	MBHDE0	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-06	MBHDE1	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-07	MBHDE2	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-08	MBHDE8	1.02	50	N/A	N/A	N/A	N/A	N/A II batch	N/A
P4498-09	MBHDE9	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-10	MBHDF0	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-11	MBHDF0D	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-12	MBHDF0S	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-13	MBHDF1	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-14	MBHDF2	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-15	MBHCH8	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-16	MBHCH9	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-17	MBHCJ0	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-18	MBHCJ1	1.05	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-19	MBHCJ2	1.02	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-20	MBHCJ3	1.01	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-21	MBHCJ5	1.04	50	N/A	N/A	N/A	N/A	N/A "	N/A
P4498-22	MBHCJ6	1.03	50	N/A	N/A	N/A	N/A	N/A "	N/A
PB164384BL	PBS384	1.00	50	N/A	N/A	N/A	N/A	N/A I batch	N/A

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133132

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:51:45 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:28:01 PM
STD. NAME	STD REF.#		
ICAL Standard	WP110397,WP110396,WP110395,WP110394,WP110393,WP110392		
ICV Standard	WP110398		
CCV Standard	WP110399		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	WP110103,WP109089,WP110434		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0.0	S0	CAL1	10/25/24 11:21		Niha	OK
2	S5.0	S01	CAL2	10/25/24 11:21		Niha	OK
3	S10.0	S02	CAL3	10/25/24 11:21		Niha	OK
4	S100.0	S03	CAL4	10/25/24 11:21		Niha	OK
5	S250.0	S04	CAL5	10/25/24 11:21		Niha	OK
6	S500.0	S05	CAL6	10/25/24 11:21		Niha	OK
7	ICV001	ICV001	ICV	10/25/24 12:29		Niha	OK
8	ICB001	ICB001	ICB	10/25/24 12:29		Niha	OK
9	CCV001	CCV001	CCV	10/25/24 12:29		Niha	OK
10	CCB001	CCB001	CCB	10/25/24 12:29		Niha	OK
11	PB164384BL	PBS384	MB	10/25/24 12:29		Niha	OK
12	P4498-01	MBHDD1	SAM	10/25/24 12:29		Niha	OK
13	P4498-02	MBHDD2	SAM	10/25/24 12:36		Niha	OK
14	P4498-03	MBHDD8	SAM	10/25/24 12:36		Niha	OK
15	P4498-04	MBHDD9	SAM	10/25/24 12:36		Niha	OK
16	P4498-05	MBHDE0	SAM	10/25/24 12:36		Niha	OK
17	P4498-06	MBHDE1	SAM	10/25/24 12:36		Niha	OK
18	P4498-07	MBHDE2	SAM	10/25/24 12:36		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133132

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:51:45 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:28:01 PM
STD. NAME	STD REF.#		
ICAL Standard	WP110397,WP110396,WP110395,WP110394,WP110393,WP110392		
ICV Standard	WP110398		
CCV Standard	WP110399		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	WP110103,WP109089,WP110434		

19	P4498-08	MBHDE8	SAM	10/25/24 12:36		Niha	OK
20	P4498-10	MBHDF0	SAM	10/25/24 12:36		Niha	OK
21	P4498-11	MBHDF0D	DUP	10/25/24 12:36		Niha	OK
22	P4498-12	MBHDF0S	MS	10/25/24 12:44		Niha	OK
23	P4498-13	MBHDF1	SAM	10/25/24 12:44		Niha	OK
24	P4498-14	MBHDF2	SAM	10/25/24 12:44		Niha	OK
25	P4498-15	MBHCH8	SAM	10/25/24 12:44		Niha	OK
26	P4498-16	MBHCH9	SAM	10/25/24 12:44		Niha	OK
27	P4498-17	MBHCJ0	SAM	10/25/24 12:44		Niha	OK
28	P4498-18	MBHCJ1	SAM	10/25/24 12:44		Niha	OK
29	P4498-19	MBHCJ2	SAM	10/25/24 12:44		Niha	OK
30	P4498-20	MBHCJ3	SAM	10/25/24 12:44		Niha	OK
31	P4498-21	MBHCJ5	SAM	10/25/24 12:44		Niha	OK
32	P4498-22	MBHCJ6	SAM	10/25/24 12:51		Niha	OK
33	CCV002	CCV002	CCV	10/25/24 12:51		Niha	OK
34	CCB002	CCB002	CCB	10/25/24 12:51		Niha	OK
35	PB164385BL	PBS385	MB	10/25/24 12:51		Niha	OK
36	P4499-01	MBHCJ7	SAM	10/25/24 12:51		Niha	OK
37	P4499-02	MBHCJ8	SAM	10/25/24 12:51		Niha	OK
38	P4499-03	MBHCJ9	SAM	10/25/24 12:51		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133132

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:51:45 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:28:01 PM
STD. NAME	STD REF.#		
ICAL Standard	WP110397,WP110396,WP110395,WP110394,WP110393,WP110392		
ICV Standard	WP110398		
CCV Standard	WP110399		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	WP110103,WP109089,WP110434		

39	P4499-04	MBHCK0	SAM	10/25/24 12:51		Niha	OK
40	P4499-05	MBHCK1	SAM	10/25/24 12:51		Niha	OK
41	P4499-06	MBHCK2	SAM	10/25/24 12:51		Niha	OK
42	P4499-07	MBHCK8	SAM	10/25/24 12:52		Niha	OK
43	P4499-09	MBHCL0	SAM	10/25/24 12:58		Niha	OK
44	P4499-10	MBHCL1	SAM	10/25/24 12:58		Niha	OK
45	P4499-11	MBHCL2	SAM	10/25/24 12:58		Niha	OK
46	P4499-12	MBHCY0	SAM	10/25/24 12:58		Niha	OK
47	P4499-13	MBHCL8	SAM	10/25/24 12:58		Niha	OK
48	P4499-14	MBHCL9	SAM	10/25/24 12:58		Niha	OK
49	P4499-15	MBHCM0	SAM	10/25/24 13:15		Niha	OK
50	P4499-16	MBHCM1	SAM	10/25/24 13:15		Niha	OK
51	P4499-17	MBHCM2	SAM	10/25/24 13:15		Niha	OK
52	P4499-18	MBHCM8	SAM	10/25/24 13:15		Niha	OK
53	P4499-19	MBHCM9	SAM	10/25/24 13:15		Niha	OK
54	P4499-20	MBHCN0	SAM	10/25/24 13:15		Niha	OK
55	P4499-21	MBHCN0D	DUP	10/25/24 13:15		Niha	OK
56	P4499-22	MBHCN0S	MS	10/25/24 13:15		Niha	OK
57	P4499-08	MBHCK9	SAM	10/25/24 13:15		Niha	OK
58	P4498-09	MBHDE9	SAM	10/25/24 13:15		Niha	OK

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QC Batch ID # LB133132

Review By	Niha Farheen Shaik	Review On	10/30/2024 9:51:45 AM
Supervise By	Iwona Zarych	Supervise On	10/30/2024 1:28:01 PM

STD. NAME	STD REF.#
ICAL Standard	WP110397,WP110396,WP110395,WP110394,WP110393,WP110392
ICV Standard	
CCV Standard	
ICSA Standard	
CRI Standard	
LCS Standard	WP110399
Chk Standard	
	WP110103,WP109089,WP110434

59	CCV003	CCV003	CCV	10/25/24 13:20		Niha	OK
60	CCB003	CCB003	CCB	10/25/24 13:20		Niha	OK