EPA SAMPLE NO.

ME2931

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-01

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	1800	D	01/29/2025	1145

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

Comments:

EPA SAMPLE NO.

ME2932

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-14

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2933

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-02

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1036

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

Comments:

EPA SAMPLE NO.

ME2934

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-16

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2935

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-17

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2936

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-15

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2937

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-03

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1036

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

Comments:

EPA SAMPLE NO.

ME2938

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-12

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	6.8	J	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2939

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-13

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2940

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-07

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1037

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

Comments:

EPA SAMPLE NO.

ME2941

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-08

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1037

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

Comments:

EPA SAMPLE NO.

ME2942

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-05

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1036

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

Comments:

EPA SAMPLE NO.

ME2943

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-06

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1036

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

Comments:

EPA SAMPLE NO.

ME2944

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-09

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1037

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

Comments:

EPA SAMPLE NO.

ME2945

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-04

% Solids: Date Received: 01/23/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1036

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

Comments:

EPA SAMPLE NO.

ME2950

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-18

% Solids: Date Received: 01/24/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2951

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-19

% Solids: Date Received: 01/24/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	10	U	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2953

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-20

% Solids: Date Received: 01/24/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	6.8	J	01/29/2025	1044

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

Comments:

EPA SAMPLE NO.

ME2954

FORM 1 - IN

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51900 MA No. : SDG No.: ME2931

Matrix: Water Lab Sample ID: Q1176-21

% Solids: Date Received: 01/24/2025

Analytical Method: CN

Concentration Units (µg/L, mg/L, mg/kg dry weight, µg, or µg/cm²): ug/L

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
57-12-5	Cyanide	11		01/29/2025	1044

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

Comments:

LB1344

Test results | Aquakem 7.2AQ1 | Page:

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

Reviewed by : NF | Instrument ID : Konelab

1/29/2025 11:55

Test: CNEPA-NEW

Sample Id	Result	Dil.	1 +	Response	Errors
ICV001 ICV001	95.000	0.0		0.086	
ICB001 ICB001	-0.255	0.0		0.000	
CCV001 CCV001	236.328	0.0		0.212	
CCB001 CCB001	-0.233	0.0		0.000	
PB166303BL PBW303	0.430	0.0		0.001	
Q1176-01 ME2931	1797.914	0.0		1.609	Test limit high
Q1176-02 ME2933	-0.731	0.0		0.000	
Q1176-03 ME2937	0.159	0.0		0.001	
Q1176-04 ME2945	-0.437	0.0		0.000	
Q1176-05 ME2942	-0.426	0.0		0.000	
Q1176-06 ME2943	-0.444	0.0		0.000	
Q1176-07 ME2940	-0.032	0.0		0.001	
Q1176-08 ME2941	-0.200	0.0		0.001	
Q1176-09 ME2944	-0.265	0.0		0.000	
Q1176-10 ME2944D	-0.339	0.0		0.000	
Q1176-11 ME2944S	94.581	0.0		0.085	
Q1176-12 ME2938	6.840	0.0		0.007	
Q1176-13 ME2939	1.559	0.0		0.002	
Q1176-14 ME2932	-0.406	0.0		0.000	
Q1176-15 ME2936	-0.653	0.0		0.000	
Q1176-16 ME2934	-0.644	0.0		0.000	
Q1176-17 ME2935	-0.342	0.0		0.000	
Q1176-18 ME2950	-0.420	0.0		0.000	
Q1176-19 ME2951	-0.259	0.0		0.000	
Q1176-20 ME2953	6.825	0.0		0.007	
Q1176-21 ME2954	11.010	0.0		0.011	
CCV002 CCV002	236.511	0.0		0.212	
CCB002 CCB002	-0.223	0.0		0.000	
PB166327BL PBW327	-0.420	0.0		0.000	
Q1186-01 ME2948	0.121	0.0		0.001	
Q1186-03 ME2955	7.196	0.0		0.007	
Q1186-04 ME2956	-0.092	0.0		0.001	
Q1186-05 ME2957	0.222	0.0		0.001	
Q1186-06 ME2960	0.004	0.0		0.001	
Q1186-07 ME2961	-0.068	0.0		0.001	
Q1186-08 ME2962	-0.487	0.0		0.000	
Q1186-09 ME2959	-0.115	0.0		0.001	
Q1186-10 ME2959D	0.147	0.0		0.001	
Q1186-11 ME2959S	81.109	0.0		0.073	
Q1186-12 ME2963	2.386	0.0		0.003	
Q1186-13 ME2967	1.965	0.0		0.002	
Q1186-14 ME2965	19.932	0.0		0.019	
Q1186-15 ME2966	18.922	0.0		0.018	
Q1186-16 ME2958	-0.208	0.0		0.001	
Q1186-17 ME2968	40.964	0.0		0.037	
Q1186-18 ME2974	1.855	0.0		0.002	
Q1186-19 ME2977	-0.179	0.0		0.001	
Q1186-20 ME2980	7.959	0.0		0.008	
Q1186-02 ME2949	1.949	0.0		0.002	
CCV003 CCV003	248.649	0.0		0.223	
CCB003 CCB003	0.254	0.0		0.001	
76-01DLX5 ME2931	351.774	0.0		0.315	
CCV004 CCV004	240.003	0.0		0.215	
CCB004 CCB004	-0.246	0.0		0.000	

NF 01.29.2025

NF 01.29.2025

NF 01.29.2025

Test results | Aquakem 7.2AQ1 | Page:

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

Reviewed by : NF | Instrument ID : Konelab

1/29/2025 11:55

Test: CNEPA-NEW

Sample Id	Result	Dil. 1 +	Response	Ô□„

N	54
Mean	64.897
SD	252.8092
CV%	389.55

Aquakem v. 7.2AQ1
Results from time period:
Wed Jan 29 09:19:51 2025
Wed Jan 29 11:45:23 2025

Sample Id	Sam	Test short name	Test	Result	Result unit	Result date and time	Stat
S0.0	A	CNEPA-NEW	P	-0.5298	µg/l	1/29/2025 9:19:51	
S5.0	A	CNEPA-NEW	P	4.3117	µg/l	1/29/2025 9:19:52	
S10.0	A	CNEPA-NEW	P	9.3447	µg/l	1/29/2025 9:19:53	
S100.0	A	CNEPA-NEW	P	102.5068	µg/l	1/29/2025 9:19:54	
S250.0	A	CNEPA-NEW	P	249.6959	µg/l	1/29/2025 9:19:55	
S500.0	A	CNEPA-NEW	P	499.6707	µg/l	1/29/2025 9:19:56	
ICV001 ICV001	S	CNEPA-NEW	P	95.0002	µg/l	1/29/2025 10:29:21	
ICB001 ICB001	S	CNEPA-NEW	P	-0.255	µg/l	1/29/2025 10:29:22	
CCV001 CCV001	S	CNEPA-NEW	P	236.3283	µg/l	1/29/2025 10:29:24	
CCB001 CCB001	S	CNEPA-NEW	P	-0.2332	µg/l	1/29/2025 10:29:27	
PB166303BL PBW303	S	CNEPA-NEW	P	0.4298	µg/l	1/29/2025 10:29:29	
Q1176-01 ME2931	S	CNEPA-NEW	P	1797.914	µg/l	1/29/2025 10:29:30	
Q1176-02 ME2933	S	CNEPA-NEW	P	-0.7313	µg/l	1/29/2025 10:36:55	
Q1176-03 ME2937	S	CNEPA-NEW	P	0.159	µg/l	1/29/2025 10:36:56	
Q1176-04 ME2945	S	CNEPA-NEW	P	-0.4375	µg/l	1/29/2025 10:36:57	
Q1176-05 ME2942	S	CNEPA-NEW	P	-0.4263	µg/l	1/29/2025 10:36:58	
Q1176-06 ME2943	S	CNEPA-NEW	P	-0.4435	µg/l	1/29/2025 10:36:59	
Q1176-07 ME2940	S	CNEPA-NEW	P	-0.0325	µg/l	1/29/2025 10:37:00	
Q1176-08 ME2941	S	CNEPA-NEW	P	-0.2003	µg/l	1/29/2025 10:37:01	
Q1176-09 ME2944	S	CNEPA-NEW	P	-0.2649	µg/l	1/29/2025 10:37:02	
Q1176-10 ME2944D	S	CNEPA-NEW	P	-0.339	µg/l	1/29/2025 10:37:03	
Q1176-11 ME2944S	S	CNEPA-NEW	P	94.5807	µg/l	1/29/2025 10:37:05	
Q1176-12 ME2938	S	CNEPA-NEW	P	6.8401	µg/l	1/29/2025 10:44:30	
Q1176-13 ME2939	S	CNEPA-NEW	P	1.5585	µg/l	1/29/2025 10:44:31	
Q1176-14 ME2932	S	CNEPA-NEW	P	-0.4059	µg/l	1/29/2025 10:44:32	
Q1176-15 ME2936	S	CNEPA-NEW	P	-0.6527	µg/l	1/29/2025 10:44:33	
Q1176-16 ME2934	S	CNEPA-NEW	P	-0.6437	µg/l	1/29/2025 10:44:34	
Q1176-17 ME2935	S	CNEPA-NEW	P	-0.3415	µg/l	1/29/2025 10:44:35	
Q1176-18 ME2950	S	CNEPA-NEW	P	-0.4197	µg/l	1/29/2025 10:44:36	
Q1176-19 ME2951	S	CNEPA-NEW	P	-0.2587	µg/l	1/29/2025 10:44:37	
Q1176-20 ME2953	S	CNEPA-NEW	P	6.8246	µg/l	1/29/2025 10:44:38	
Q1176-21 ME2954	S	CNEPA-NEW	P	11.0103	µg/l	1/29/2025 10:44:39	
CCV002 CCV002	S	CNEPA-NEW	P	236.5114	µg/l	1/29/2025 10:52:05	
CCB002 CCB002	S	CNEPA-NEW	P	-0.2225	µg/l	1/29/2025 10:52:06	
PB166327BL PBW327	S	CNEPA-NEW	P	-0.4197	µg/l	1/29/2025 10:52:07	
Q1186-01 ME2948	S	CNEPA-NEW	P	0.1207	µg/l	1/29/2025 10:52:08	
Q1186-03 ME2955	S	CNEPA-NEW	P	7.1964	µg/l	1/29/2025 10:52:10	
Q1186-04 ME2956	S	CNEPA-NEW	P	-0.0916	µg/l	1/29/2025 10:52:11	
Q1186-05 ME2957	S	CNEPA-NEW	P	0.2216	µg/l	1/29/2025 10:52:12	

Q1186-06 ME2960	S	CNEPA-NEW	P	0.0041 µg/l	1/29/2025 10:52:13
Q1186-07 ME2961	S	CNEPA-NEW	P	-0.0678 µg/l	1/29/2025 10:52:14
Q1186-08 ME2962	S	CNEPA-NEW	P	-0.4872 µg/l	1/29/2025 10:52:15
Q1186-09 ME2959	S	CNEPA-NEW	P	-0.1145 µg/l	1/29/2025 10:59:38
Q1186-10 ME2959D	S	CNEPA-NEW	P	0.147 µg/l	1/29/2025 10:59:39
Q1186-11 ME2959S	S	CNEPA-NEW	P	81.1085 µg/l	1/29/2025 10:59:40
Q1186-12 ME2963	S	CNEPA-NEW	P	2.3861 µg/l	1/29/2025 10:59:42
Q1186-13 ME2967	S	CNEPA-NEW	P	1.9649 µg/l	1/29/2025 10:59:43
Q1186-14 ME2965	S	CNEPA-NEW	P	19.9324 µg/l	1/29/2025 10:59:44
Q1186-15 ME2966	S	CNEPA-NEW	P	18.9218 µg/l	1/29/2025 10:59:45
Q1186-16 ME2958	S	CNEPA-NEW	P	-0.2082 µg/l	1/29/2025 10:59:46
Q1186-17 ME2968	S	CNEPA-NEW	P	40.9638 µg/l	1/29/2025 10:59:47
Q1186-18 ME2974	S	CNEPA-NEW	P	1.8549 µg/l	1/29/2025 10:59:48
Q1186-19 ME2977	S	CNEPA-NEW	P	-0.1789 µg/l	1/29/2025 11:04:53
Q1186-20 ME2980	S	CNEPA-NEW	P	7.9592 µg/l	1/29/2025 11:04:54
Q1186-02 ME2949	S	CNEPA-NEW	P	1.9495 µg/l	1/29/2025 11:04:55
CCV003 CCV003	S	CNEPA-NEW	P	248.6495 µg/l	1/29/2025 11:04:56
CCB003 CCB003	S	CNEPA-NEW	P	0.2542 µg/l	1/29/2025 11:04:57
Q1176-01DLX5 ME2931	S	CNEPA-NEW	P	351.7744 µg/l	1/29/2025 11:45:19
CCV004 CCV004	S	CNEPA-NEW	P	240.0026 µg/l	1/29/2025 11:45:20
CCB004 CCB004	S	CNEPA-NEW	P	-0.2461 µg/l	1/29/2025 11:45:22

Calibration results Aquakem 7.2AQ1 Page:

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

Reviewed by : NF Instrument ID : Konelab

1/29/2025 9:21

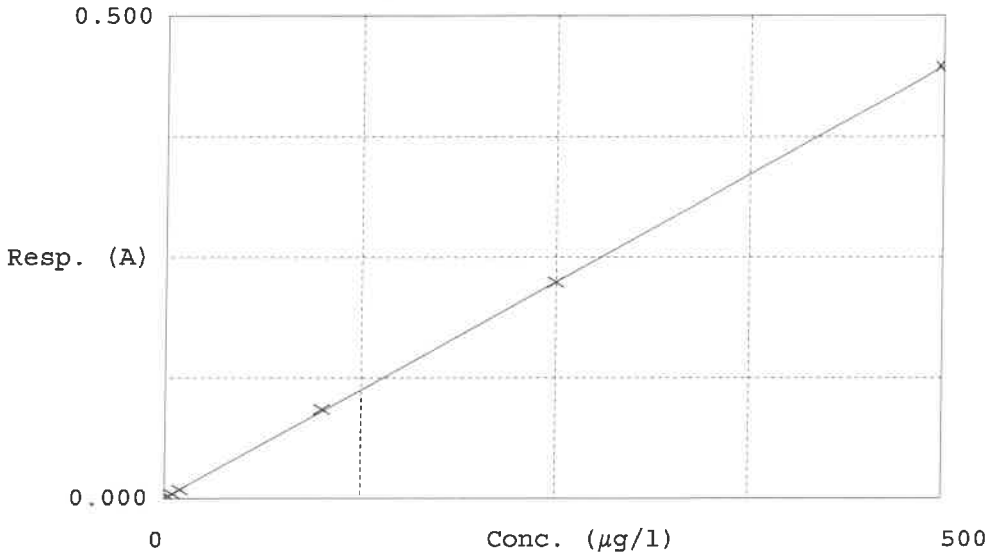
Test CNEPA-NEW

Accepted 1/29/2025 9:21

~~Factor~~ Slope ~~1118~~ 0.000894 NF
~~Bias~~ Intercept 0.001 01.30.2025

Coeff. of det. 0.999961

Errors



Calibrator	Response	Calc. con.	Conc.	Errors (Re)
1 80.0 0.0PPBCN	0.000	-0.5298	0.0000	
2 55.0 5.0PPBCN	0.005	4.3117	5.0000	-13.8
3 10.0 10PPBCN	0.009	9.3447	10.0000	-6.6
4 ~~6~~ 100PPBCN	0.092	102.5068	100.0000	2.5
5 ~~2~~ 250PPBCN	0.224	249.6959	250.0000	-0.1
6 ~~5~~ 500PPBCN	0.448	499.6707	500.0000	-0.1

NF
01.29.2025

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

Prep Standard - Chemical Standard Summary

Order ID : Q1176

Test : Cyanide

Prepbatch ID : PB166303,

Sequence ID/Qc Batch ID: LB134471,

Standard ID :
WP110103,WP110390,WP110391,WP111286,WP111294,WP111295,WP111387,WP111661,WP111663,WP111664WP111662,WP111665,WP111666,WP111667,WP111668,WP111669,WP111688,

Chemical ID :
M5673,M6121,W2668,W2882,W3001,W3012,W3019,W3101,W3112,W3113,W3121,W3139,W3154,

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
539	CN BUFFER	WP110103	10/08/2024	04/08/2025	Rubina Mughal	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/08/2024

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3214	Magnesium Chloride For Cyanide 2.5M(51%W/V)	WP110390	10/24/2024	04/24/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 10/24/2024

FROM 500.00000ml of W3112 + 510.00000gram of W3001 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1714	Sulfuric Acid, 50% (v/v)	WP110391	10/24/2024	04/24/2025	Niha Farheen Shaik	None	None	Iwona Zarych 10/24/2024

FROM 1000.00000ml of M5673 + 1000.00000ml of W3112 = Final Quantity: 2000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
2816	CN-EPA Pyridine-Burbituric Acid solution	WP111286	01/02/2025	04/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	Glass Pipette-A	Iwona Zarych 01/02/2025

FROM 15.00000gram of W2882 + 15.00000ml of M6121 + 75.00000ml of W3019 + 895.00000ml of W3112 = Final Quantity: 1000.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
11	Sodium hydroxide absorbing solution 0.25 N	WP111294	01/07/2025	07/07/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/07/2025

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

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
3850	Cyanide MS-MSD spiking solution, 5PPM	WP111295	01/07/2025	07/07/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/07/2025

FROM 1.00000ml of W3154 + 199.00000ml of WP111294 = Final Quantity: 200.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1581	Sodium hydroxide solution, 1.25N	WP111387	01/14/2025	07/14/2025	Rubina Mughal	WETCHEM_SCALE_8 (WCSC-7)	None	Jignesh Parikh 01/14/2025

FROM 50.00000gram of W3113 + 950.00000ml of W3112 = Final Quantity: 1000.000 ml

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1585	Cyanide Intermediate standard solution, 10PPM	WP111661	01/28/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/30/2025

FROM 1.00000ml of W3154 + 79.00000ml of W3112 + 20.00000ml of WP111387 = Final Quantity: 100.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1592	Cyanide CCV Std, 250 PPB	WP111663	01/28/2025	01/29/2025	Niha Farheen Shaik	None	Glass Pipette-A	Iwona Zarych 01/30/2025

FROM 2.50000ml of WP111661 + 97.50000ml of WP111294 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1588	Cyanide Cal Std, 100 PPB	WP111665	01/28/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/30/2025

FROM 1.00000ml of WP111661 + 99.00000ml of WP111294 = Final Quantity: 0.100 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1589	Cyanide Cal Std, 10 PPB	WP111666	01/28/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/30/2025

FROM 4.00000ml of WP111664 + 96.00000ml of WP111294 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1590	Cyanide Cal Std, 5 PPB	WP111667	01/28/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/30/2025

FROM 2.00000ml of WP111664 + 98.00000ml of WP111294 = Final Quantity: 0.100 L

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1591	Cyanide blank std, 0 PPB	WP111668	01/28/2025	01/29/2025	Niha Farheen Shaik	None	None	Iwona Zarych 01/30/2025

FROM 100.00000ml of WP111294 = Final Quantity: 0.100 L

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1763	Cyanide ICV Std	WP111669	01/28/2025	01/29/2025	Niha Farheen Shaik	None	WETCHEM_PIPETTE_3 (WC)	Iwona Zarych 01/30/2025

FROM 0.50000ml of W3012 + 49.50000ml of WP111294 = Final Quantity: 50.000 ml

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Wet Chemistry STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	ScaleID	PipetteID	Supervised By
1582	Chloramine T solution, 0.014M	WP111688	01/29/2025	01/30/2025	Niha Farheen Shaik	WETCHEM_SCALE_5 (WCSC-5)	None	Iwona Zarych 01/30/2025

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

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9673-33 / Sulfuric Acid, Instra-Analyzed (cs/6c2.5L)	23D2462010	03/20/2028	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)	0000275677	05/13/2025	11/13/2024 / Eman	10/13/2024 / Eman	M6121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	J3818-5 / SODIUM PHOSPHATE, MONOBAS/HYD, CRYS, ACS, 2.5 KG	0000225799	12/03/2025	04/05/2021 / Alexander	02/10/2020 / apatel	W2668

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
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 / Megnasium Chloride Hexahydrate ACS 10KG	002251-03319	06/06/2027	01/23/2023 / Iwona	06/06/2022 / Iwona	W3001

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

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CHEMICAL RECEIPT LOG BOOK

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	470112-662 / TEST STRIPES, NITRATE/NITRITE, PK50	402403	04/30/2026	05/02/2024 / Iwona	04/10/2024 / Iwona	W3101

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	DIW / DI Water	Daily Lab-Certified	07/03/2029	07/03/2024 / Iwona	07/03/2024 / Iwona	W3112

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

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	140444 / TEST PAPERS,PH 0-14,.5 SENSI,100PK	HC446507	07/25/2029	07/25/2024 / Iwona	07/25/2024 / Iwona	W3121

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	JTE494-6 / CHLORAMINE-T BAKER 250GM	10239484	09/09/2029	09/09/2024 / Iwona	09/09/2024 / Iwona	W3139

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CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
PCI Scientific Supply, Inc.	RC2543-4 / CYANIDE STD 1000PPM 4OZ	1411J58	05/31/2025	12/02/2024 / Iwona	12/02/2024 / Iwona	W3154

~~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•$6H_2O$
CAS Number	7791-18-6
Molecular Formula	$MgCl_2$•$6H_2O$
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

Sigma-Aldrich.

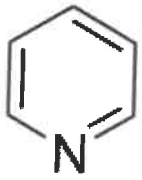
W3019
Rec 4/3/23

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

Certificate of Analysis

Product Name:
Pyridine - anhydrous, 99.8%

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



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

Larry Coers, Director
Quality Control
Sheboygan Falls, WI US

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.

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™ | J.T.Baker®

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

Certificate of Analysis

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

>>> Continued on page 2 >>>

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

avantor™ | J.T.Baker®

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

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

For Laboratory,Research,or Manufacturing Use

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

James T Ethier

Jamie Ethier
Vice President Global Quality

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

avantor™ | J.T.Baker®

R → 10/13/24
Met dig

M 6/21

Material No.: 9530-33
Batch No.: 0000275677
Manufactured Date: 2020/12/16
Retest Date: 2025/12/15
Revision No: 1

Certificate of Analysis

Test	Specification	Result
ACS - Assay (as HCl) (by acid-base titrn)	36.5 - 38.0 %	37.6
ACS - Color (APHA)	<= 10	5
ACS - Residue after Ignition	<= 3 ppm	1
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.190
ACS - Bromide (Br)	<= 0.005 %	< 0.005
ACS - Extractable Organic Substances	<= 5 ppm	1
ACS - Free Chlorine (as Cl_2)	<= 0.5 ppm	< 0.5
Phosphate (PO_4)	<= 0.05 ppm	< 0.03
Sulfate (SO_4)	<= 0.5 ppm	< 0.3
Sulfite (SO_3)	<= 0.8 ppm	0.3
Ammonium (NH_4)	<= 3 ppm	< 1
Trace Impurities - Arsenic (As)	<= 0.010 ppm	< 0.003
Trace Impurities - Aluminum (Al)	<= 10.0 ppb	< 0.2
Arsenic and Antimony (as As)	<= 5 ppb	< 3
Trace Impurities - Barium (Ba)	<= 1.0 ppb	< 0.2
Trace Impurities - Beryllium (Be)	<= 1.0 ppb	< 0.2
Trace Impurities - Bismuth (Bi)	<= 10.0 ppb	< 1.0
Trace Impurities - Boron (B)	<= 20.0 ppb	< 5.0
Trace Impurities - Cadmium (Cd)	<= 1.0 ppb	< 0.3
Trace Impurities - Calcium (Ca)	<= 50.0 ppb	29.7
Trace Impurities - Chromium (Cr)	<= 1.0 ppb	< 0.4
Trace Impurities - Cobalt (Co)	<= 1.0 ppb	< 0.3
Trace Impurities - Copper (Cu)	<= 1.0 ppb	< 0.1
Trace Impurities - Gallium (Ga)	<= 1.0 ppb	< 0.2

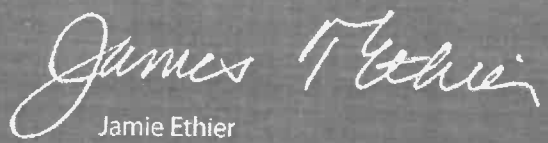
For questions on this Certificate of Analysis please contact Technical Services at 855.282.6867 or +1.610.386.1700
Avantor Performance Materials, LLC
100 Matsonford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone: 610.386.1700

Material No.: 9530-33
Batch No.: 0000275677

Test	Specification	Result
Trace Impurities - Germanium (Ge)	<= 3.0 ppb	< 2.0
Trace Impurities - Gold (Au)	<= 4.0 ppb	< 0.2
Heavy Metals (as Pb)	<= 100 ppb	< 50
Trace Impurities - Iron (Fe)	<= 15.0 ppb	<1
Trace Impurities - Lead (Pb)	<= 1.0 ppb	< 0.5
Trace Impurities - Lithium (Li)	<= 1.0 ppb	0.2
Trace Impurities - Magnesium (Mg)	<= 10.0 ppb	0.4
Trace Impurities - Manganese (Mn)	<= 1.0 ppb	< 0.4
Trace Impurities - Mercury (Hg)	<= 0.5 ppb	0.1
Trace Impurities - Molybdenum (Mo)	<= 10.0 ppb	< 5.0
Trace Impurities - Nickel (Ni)	<= 4.0 ppb	< 0.3
Trace Impurities - Niobium (Nb)	<= 1.0 ppb	< 0.2
Trace Impurities - Potassium (K)	<= 9.0 ppb	< 2.0
Trace Impurities - Selenium (Se), For Information Only	ppb	1.0
Trace Impurities - Silicon (Si)	<= 100.0 ppb	< 10.0
Trace Impurities - Silver (Ag)	<= 1.0 ppb	< 0.3
Trace Impurities - Sodium (Na)	<= 100.0 ppb	< 5.0
Trace Impurities - Strontium (Sr)	<= 1.0 ppb	< 0.2
Trace Impurities - Tantalum (Ta)	<= 1.0 ppb	< 0.9
Trace Impurities - Thallium (Tl)	<= 5.0 ppb	< 2.0
Trace Impurities - Tin (Sn)	<= 5.0 ppb	< 0.8
Trace Impurities - Titanium (Ti)	<= 1.0 ppb	0.2
Trace Impurities - Vanadium (V)	<= 1.0 ppb	< 0.2
Trace Impurities - Zinc (Zn)	<= 5.0 ppb	0.3
Trace Impurities - Zirconium (Zr)	<= 1.0 ppb	< 0.1

For Laboratory, Research or Manufacturing Use
Product Information (not specifications):
Appearance (clear, fuming liquid)
Meets ACS Specifications

Country of Origin: US
Packaging Site: Phillipsburg 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

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

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

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

Jamie Ethier
Vice President Global Quality

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

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: 0583

Grade: ACS GRADE

Batch Number: 23B1556310

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

Pellets

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

Storage: Room Temperature

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

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

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

Product meets analytical specifications of the grades listed.

Certificate of Analysis

Sodium Hydroxide (Pellets)

Material: **0583**

Grade: **ACS GRADE**

Batch Number: **23B1556310**

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

Pellets

Spec Set: 0583ACS

Internal ID #: 710

Signature

We certify that this batch conforms to the specifications listed.

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

Leona Edwardson, Quality Control Sr. Manager - Solon
VWR Chemicals, LLC.
28600 Fountain Parkway, Solon OH 44139 USA

Additional Information

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

Product meets analytical specifications of the grades listed.

ThermoFisher SCIENTIFIC

Certificate of Analysis

W3139 Received on 9/9/24 by IZ

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

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

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

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

RICCA CHEMICAL COMPANY®
W3154 Rec. on 12/2/24 by IZ

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

Certificate of Analysis

Cyanide Standard, 1000 ppm CN^-

Lot Number: 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 certifiec traceable to NIST Standard Reference Material 999. The certified value reported is the prepared value based upon the method of preparation of the material. The uncertainty in the prepared value is the combined uncertainty based on the stability of the assayed Potassium Cyanide, and the uncertainty in the mass and volume measurements.
Use 0.16% (w/v) (0.04 N) Sodium Hydroxide or 0.225 % (w/v) (0.04 N) Potassium Hydroxide to make dilutions of this standard. Restandardize weekly if extreme accuracy is required.

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

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

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

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

Part Number	Size / Package Type	Shelf Life (Unopened Container)
2543-16	500 mL amber poly	6 months
2543-32	1 L amber poly	6 months
2543-4	120 mL amber poly	6 months

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

Luis Briceno (11/22/2024)
Operations Supervisor

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB166303

SOP ID : MSFAM01.1-Cyanide-2

SDG No : ME2931

Matrix : WATER

Pippete ID : WC

Balance ID : N/A

Hood ID : HOOD#1

Block ID : MC-1, MC-2

Weigh By : N/A

Start Digest Date: 01/28/2025 **Time :** 09:00 **Temp :** 123 °C

End Digest Date: 01/28/2025 **Time :** 10:30 **Temp :** 127 °C

II batch 01/28/2025 11:00 124°C
01/28/2025 12:30 126°C } JB

Digestion tube ID : M5595

Filter paper ID : N/A

pH Meter ID : N/A

Block Thermometer ID : WC CYANIDE

Prep Technician Signature: JB

Supervisor Signature: JZ

Standared Name	MLS USED	STD REF. # FROM LOG
PBW	50.0ML	W3112
MATRIX SPIKE SOLUTION	1.0ML	WP111295
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	WP111294
50% v/v H2SO4	5.0ML	WP110391
51% w/v MgCL2	2.0ML	WP110390
pH Paper 0-14	N/A	W3121
Nitrate/Nitrite Strip	N/A	W3101
Lead Acetate strip	N/A	W3134
KI-starch paper	N/A	W3155
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
S0	S0	50.0ML	WP111668 I batch
S5.0	S5.0	50.0ML	WP111667 "
S10.0	S10.0	50.0ML	WP111666 "
S100.0	S100.0	50.0ML	WP111665 "
S250.0	S250.0	50.0ML	WP111664 "
S500.0	S500.0	50.0ML	WP111662 "
ICV	ICV	50.0ML	WP111669 "
ICB	ICB	50.0ML	WP111294 "
CCV	CCV	50.0ML	WP111663 "
CCB	CCB	50.0ML	WP111294 "
Midrange	Midrange	N/A	N/A
HIGHSTD	HIGHSTD	N/A	N/A
LOWSTD	LOWSTD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

MIDI-DISTILATION_AQUEOUS; I-ST BATCH MC-2 START TEMP:123 C; MC-2 END TEMP: 126 C; II-ND BATCH MC-2 START TEMP:124 C; MC-2 END TEMP: 127 C Block Therm.ID: WC-CYANIDE-2,

Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
01·28·2025, 12:45	JB (C) C	NF(WC)
	Preparation Group	Analysis Group

Alliance TECHNICAL GROUP

Water Cyanide Preparation Sheet

PB166303

Lab Sample ID	Client Sample ID	Initial Vol (ml)	Final Vol (ml)	pH	Sulfide	Oxidizing	Nitrate/ Nitrite	Comment	Prep Pos
PB166303BL	PBW303	50	50	>10	Negative	Negative	Negative	N/A I batch	N/A
Q1176-01	ME2931	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-02	ME2933	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-03	ME2937	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-04	ME2945	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-05	ME2942	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-06	ME2943	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-07	ME2940	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-08	ME2941	50	50	>10	Negative	Negative	Negative	N/A II batch	N/A
Q1176-09	ME2944	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-10	ME2944D	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-11	ME2944S	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-12	ME2938	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-13	ME2939	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-14	ME2932	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-15	ME2936	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-16	ME2934	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-17	ME2935	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-18	ME2950	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-19	ME2951	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-20	ME2953	50	50	>10	Negative	Negative	Negative	N/A "	N/A
Q1176-21	ME2954	50	50	>10	Negative	Negative	Negative	N/A "	N/A

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

Instrument ID: KONELAB

Daily Analysis Runlog For Sequence/QCBatch ID # LB134471

Review By	Niha Farheen Shaik	Review On	1/30/2025 9:38:57 AM
Supervise By	Iwona Zarych	Supervise On	1/30/2025 9:52:35 AM

STD. NAME	STD REF.#
ICAL Standard	WP111668,WP111667,WP111666,WP111665,WP111664,WP111662
ICV Standard	WP111669
CCV Standard	WP111663
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP111286,WP111688

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0.0	S0	CAL1	01/29/25 09:19		Niha	OK
2	S5.0	S01	CAL2	01/29/25 09:19		Niha	OK
3	S10.0	S02	CAL3	01/29/25 09:19		Niha	OK
4	S100.0	S03	CAL4	01/29/25 09:19		Niha	OK
5	S250.0	S04	CAL5	01/29/25 09:19		Niha	OK
6	S500.0	S05	CAL6	01/29/25 09:19		Niha	OK
7	ICV001	ICV001	ICV	01/29/25 10:29		Niha	OK
8	ICB001	ICB001	ICB	01/29/25 10:29		Niha	OK
9	CCV001	CCV001	CCV	01/29/25 10:29		Niha	OK
10	CCB001	CCB001	CCB	01/29/25 10:29		Niha	OK
11	PB166303BL	PBW303	MB	01/29/25 10:29		Niha	OK
12	Q1176-01	ME2931	SAM	01/29/25 10:29	High	Niha	Dilution
13	Q1176-02	ME2933	SAM	01/29/25 10:36		Niha	OK
14	Q1176-03	ME2937	SAM	01/29/25 10:36		Niha	OK
15	Q1176-04	ME2945	SAM	01/29/25 10:36		Niha	OK
16	Q1176-05	ME2942	SAM	01/29/25 10:36		Niha	OK
17	Q1176-06	ME2943	SAM	01/29/25 10:36		Niha	OK
18	Q1176-07	ME2940	SAM	01/29/25 10:37		Niha	OK

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CCV Standard	WP111663
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP111286,WP111688

19	Q1176-08	ME2941	SAM	01/29/25 10:37		Niha	OK
20	Q1176-09	ME2944	SAM	01/29/25 10:37		Niha	OK
21	Q1176-10	ME2944D	DUP	01/29/25 10:37		Niha	OK
22	Q1176-11	ME2944S	MS	01/29/25 10:37		Niha	OK
23	Q1176-12	ME2938	SAM	01/29/25 10:44		Niha	OK
24	Q1176-13	ME2939	SAM	01/29/25 10:44		Niha	OK
25	Q1176-14	ME2932	SAM	01/29/25 10:44		Niha	OK
26	Q1176-15	ME2936	SAM	01/29/25 10:44		Niha	OK
27	Q1176-16	ME2934	SAM	01/29/25 10:44		Niha	OK
28	Q1176-17	ME2935	SAM	01/29/25 10:44		Niha	OK
29	Q1176-18	ME2950	SAM	01/29/25 10:44		Niha	OK
30	Q1176-19	ME2951	SAM	01/29/25 10:44		Niha	OK
31	Q1176-20	ME2953	SAM	01/29/25 10:44		Niha	OK
32	Q1176-21	ME2954	SAM	01/29/25 10:44		Niha	OK
33	CCV002	CCV002	CCV	01/29/25 10:52		Niha	OK
34	CCB002	CCB002	CCB	01/29/25 10:52		Niha	OK
35	PB166327BL	PBW327	MB	01/29/25 10:52		Niha	OK
36	Q1186-01	ME2948	SAM	01/29/25 10:52		Niha	OK
37	Q1186-03	ME2955	SAM	01/29/25 10:52		Niha	OK
38	Q1186-04	ME2956	SAM	01/29/25 10:52		Niha	OK

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ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP111286,WP111688

39	Q1186-05	ME2957	SAM	01/29/25 10:52		Niha	OK
40	Q1186-06	ME2960	SAM	01/29/25 10:52		Niha	OK
41	Q1186-07	ME2961	SAM	01/29/25 10:52		Niha	OK
42	Q1186-08	ME2962	SAM	01/29/25 10:52		Niha	OK
43	Q1186-09	ME2959	SAM	01/29/25 10:59		Niha	OK
44	Q1186-10	ME2959D	DUP	01/29/25 10:59		Niha	OK
45	Q1186-11	ME2959S	MS	01/29/25 10:59		Niha	OK
46	Q1186-12	ME2963	SAM	01/29/25 10:59		Niha	OK
47	Q1186-13	ME2967	SAM	01/29/25 10:59		Niha	OK
48	Q1186-14	ME2965	SAM	01/29/25 10:59		Niha	OK
49	Q1186-15	ME2966	SAM	01/29/25 10:59		Niha	OK
50	Q1186-16	ME2958	SAM	01/29/25 10:59		Niha	OK
51	Q1186-17	ME2968	SAM	01/29/25 10:59		Niha	OK
52	Q1186-18	ME2974	SAM	01/29/25 10:59		Niha	OK
53	Q1186-19	ME2977	SAM	01/29/25 11:04		Niha	OK
54	Q1186-20	ME2980	SAM	01/29/25 11:04		Niha	OK
55	Q1186-02	ME2949	SAM	01/29/25 11:04		Niha	OK
56	CCV003	CCV003	CCV	01/29/25 11:04		Niha	OK
57	CCB003	CCB003	CCB	01/29/25 11:04		Niha	OK
58	Q1176-01DL	ME2931	SAM	01/29/25 11:45	Report 5X	Niha	Confirms

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

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ICV Standard	WP111669
CCV Standard	WP111663
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	WP110103,WP111286,WP111688

59	CCV004	CCV004	CCV	01/29/25 11:45		Niha	OK
60	CCB004	CCB004	CCB	01/29/25 11:45		Niha	OK