

EPA SAMPLE NO.

ME28N9

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9Matrix: SOIL Lab Sample ID: P5154-01% Solids: 78.7 Date Received: 12/06/2024Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.054	J	12/12/2024	1225

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P0

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-02
% Solids: 75.2 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.058	J	12/12/2024	1228

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-03
% Solids: 89.1 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.022	J	12/12/2024	1230

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

EPA SAMPLE NO.

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P2

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9Matrix: SOIL Lab Sample ID: P5154-04% Solids: 83.5 Date Received: 12/06/2024Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.042	J	12/12/2024	1232

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P3

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-05
% Solids: 90.1 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	5.3	D	12/12/2024	1415

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P4

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-06
% Solids: 85.7 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.033	J	12/12/2024	1237

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P5

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-07
% Solids: 84.2 Date Received: 12/06/2024
Analytical Method: Hg
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
7439-97-6	Mercury	0.069	J	12/12/2024	1239

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

Comments:

EPA SAMPLE NO.

ME28P6

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-08
% Solids: 89.8 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.035	J	12/12/2024	1242

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28P7

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-09
% Solids: 91.1 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.016	J	12/12/2024	1244

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

EPA SAMPLE NO.

ME28P8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-10
% Solids: 72.2 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.085	J	12/12/2024	1246

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

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ME28P9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-11
% Solids: 81.4 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.082	J	12/12/2024	1248

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

FORM 1 - IN
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ME28Q0

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-12
% Solids: 68.8 Date Received: 12/06/2024
Analytical Method: Hg
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
7439-97-6	Mercury	0.075	J	12/12/2024	1251

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q1

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-13
% Solids: 87.5 Date Received: 12/06/2024
Analytical Method: Hg
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
7439-97-6	Mercury	0.088	J	12/12/2024	1253

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q2

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

Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9

Matrix: SOIL Lab Sample ID: P5154-14

% Solids: 83.6 Date Received: 12/06/2024

Analytical Method: Hg

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
7439-97-6	Mercury	0.070	J	12/12/2024	1255

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q3

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-15
% Solids: 77.3 Date Received: 12/06/2024
Analytical Method: Hg
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
7439-97-6	Mercury	0.30		12/12/2024	1257

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q4

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-16
% Solids: 77.8 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.29		12/12/2024	1300

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Q5

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9
Matrix: SOIL Lab Sample ID: P5154-19
% Solids: 84.5 Date Received: 12/06/2024

Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.093	J	12/12/2024	1311

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

EPA SAMPLE NO.

ME28R3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9Matrix: SOIL Lab Sample ID: P5154-20% Solids: 77.5 Date Received: 12/06/2024Analytical Method: HgConcentration 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
7439-97-6	Mercury	0.22		12/12/2024	1313

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

EPA SAMPLE NO.

ME28R4

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28N9Matrix: SOIL Lab Sample ID: P5154-21% Solids: 77.6 Date Received: 12/06/2024Analytical Method: HgConcentration Units ($\mu\text{g/L}$, mg/L , mg/kg dry weight, μg , or $\mu\text{g/cm}^2$): mg/kg

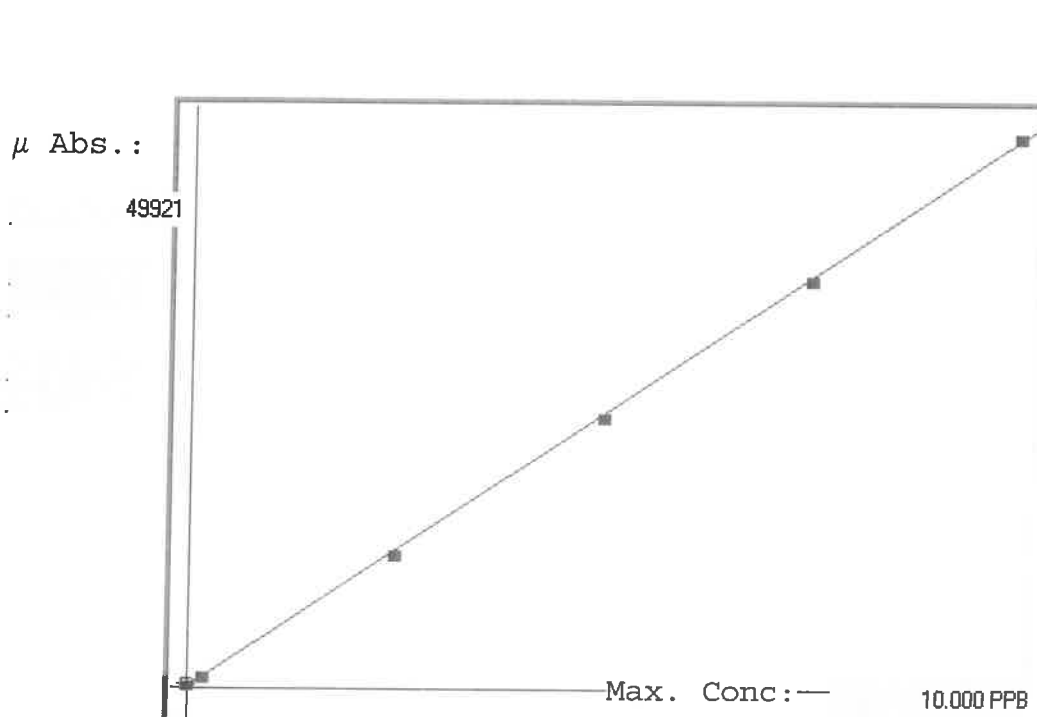
CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.21		12/12/2024	1316

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

LB133907

SFAM01.1

INSTRUMENT ID: CV1



Linear

A= 0.0000e+000

B= 2.0178e-004 slope

C= -1.4699e-002 y-intercept

Rho= 0.9999285

Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	g/n
0.00	0.000	0.055	0.055	347	0.000	347	0				11
0.05	0.050					442	0				5
0.20	0.200	0.209	0.009	1109	0.0 %	1109					-2
2.50	2.500	2.459	-0.041	12259	0.0 %	12259					-1
5.00	5.000	4.953	-0.047	24618	0.0 %	24618					0
7.50	7.500	7.465	-0.035	37069	0.0 %	37069					1
10.0	10.000	10.059	0.059	49921	0.0 %	49921					

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INSTRUMENT ID : CV1

Sample ID	Extended ID	μ Abs.	Conc.	Std Conc	Method	Units	Date	Type
	0 S0	347	-		0 SFAM01.1	PPB	12/12/2024 10:54	Std
	0.2 S01	1109	-		0.2 SFAM01.1	PPB	12/12/2024 10:56	Std
	2.5 S02	12259	-		2.5 SFAM01.1	PPB	12/12/2024 11:00	Std
	5 S03	24618	-		5 SFAM01.1	PPB	12/12/2024 11:03	Std
	7.5 S04	37069	-		7.5 SFAM01.1	PPB	12/12/2024 11:05	Std
	10 S05	49921	-		10 SFAM01.1	PPB	12/12/2024 11:12	Std
ICV017	ICV017	20985	4.2197 -		SFAM01.1	PPB	12/12/2024 11:17	SMPL
ICB017	ICB017	282	0.0422 -		SFAM01.1	PPB	12/12/2024 11:19	SMPL
CCV020	CCV020	24276	4.8838 -		SFAM01.1	PPB	12/12/2024 11:22	SMPL
CCB020	CCB020	327	0.0513 -		SFAM01.1	PPB	12/12/2024 11:24	SMPL
PB165593BL	PBS593	463	0.0787 -		SFAM01.1	PPB	12/12/2024 11:26	SMPL
P5067-01	ME28M0	2109	0.4109 -		SFAM01.1	PPB	12/12/2024 11:28	SMPL
P5067-02	ME28M1	856	0.158 -		SFAM01.1	PPB	12/12/2024 11:31	SMPL
P5067-03	ME28M2	675	0.1215 -		SFAM01.1	PPB	12/12/2024 11:33	SMPL
P5067-04	ME28M3	620	0.1104 -		SFAM01.1	PPB	12/12/2024 11:35	SMPL
P5067-05	ME28M4	641	0.1146 -		SFAM01.1	PPB	12/12/2024 11:38	SMPL
P5067-06	ME28M5	612	0.1088 -		SFAM01.1	PPB	12/12/2024 11:40	SMPL
P5067-07	ME28M6	456	0.0773 -		SFAM01.1	PPB	12/12/2024 11:42	SMPL
P5067-08	ME28M7	2048	0.3986 -		SFAM01.1	PPB	12/12/2024 11:44	SMPL
P5067-09	ME28M8	1772	0.3429 -		SFAM01.1	PPB	12/12/2024 11:47	SMPL
P5067-10	ME28M9	1455	0.2789 -		SFAM01.1	PPB	12/12/2024 11:49	SMPL
P5067-11	ME28N0	1835	0.3556 -		SFAM01.1	PPB	12/12/2024 11:51	SMPL
P5067-12	ME28N1	846	0.156 -		SFAM01.1	PPB	12/12/2024 11:53	SMPL
P5067-13	ME28N2	1140	0.2153 -		SFAM01.1	PPB	12/12/2024 11:56	SMPL
P5067-14	ME28N3	744	0.1354 -		SFAM01.1	PPB	12/12/2024 11:58	SMPL
P5067-15	ME28N4	3194	0.6298 -		SFAM01.1	PPB	12/12/2024 12:00	SMPL
P5067-16	ME28N5	1149	0.2172 -		SFAM01.1	PPB	12/12/2024 12:02	SMPL
P5067-17	ME28N6	1443	0.2765 -		SFAM01.1	PPB	12/12/2024 12:05	SMPL
P5067-18	ME28N7	546	0.0955 -		SFAM01.1	PPB	12/12/2024 12:07	SMPL
P5067-19	ME28N8	25	-0.0097 -		SFAM01.1	PPB	12/12/2024 12:09	SMPL
CCV021	CCV021	24687	4.9667 -		SFAM01.1	PPB	12/12/2024 12:12	SMPL
CCB021	CCB021	393	0.0646 -		SFAM01.1	PPB	12/12/2024 12:14	SMPL
P5067-20	ME28N8D	223	0.0303 -		SFAM01.1	PPB	12/12/2024 12:19	SMPL
P5067-21	ME28N8S	12807	2.5696 -		SFAM01.1	PPB	12/12/2024 12:21	SMPL
PB165594BL	PBS594	190	0.0236 -		SFAM01.1	PPB	12/12/2024 12:23	SMPL
P5154-01	ME28N9	1291	0.2458 -		SFAM01.1	PPB	12/12/2024 12:25	SMPL
P5154-02	ME28P0	1254	0.2383 -		SFAM01.1	PPB	12/12/2024 12:28	SMPL
P5154-03	ME28P1	636	0.1136 -		SFAM01.1	PPB	12/12/2024 12:30	SMPL
P5154-04	ME28P2	1059	0.199 -		SFAM01.1	PPB	12/12/2024 12:32	SMPL
P5154-05	ME28P3	129438	26.1038 -		SFAM01.1	PPB	12/12/2024 12:35	SMPL
P5154-06	ME28P4	794	0.1455 -		SFAM01.1	PPB	12/12/2024 12:37	SMPL
P5154-07	ME28P5	1608	0.3098 -		SFAM01.1	PPB	12/12/2024 12:39	SMPL
P5154-08	ME28P6	861	0.159 -		SFAM01.1	PPB	12/12/2024 12:42	SMPL
P5154-09	ME28P7	490	0.0842 -		SFAM01.1	PPB	12/12/2024 12:44	SMPL
P5154-10	ME28P8	1776	0.3437 -		SFAM01.1	PPB	12/12/2024 12:46	SMPL
P5154-11	ME28P9	1900	0.3687 -		SFAM01.1	PPB	12/12/2024 12:48	SMPL

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P5154-12	ME28Q0	1505	0.289 -	SFAM01.1	PPB	12/12/2024 12:51	SMPL
P5154-13	ME28Q1	2011	0.3911 -	SFAM01.1	PPB	12/12/2024 12:53	SMPL
P5154-14	ME28Q2	1634	0.315 -	SFAM01.1	PPB	12/12/2024 12:55	SMPL
P5154-15	ME28Q3	6884	1.3744 -	SFAM01.1	PPB	12/12/2024 12:57	SMPL
P5154-16	ME28Q4	6140	1.2243 -	SFAM01.1	PPB	12/12/2024 13:00	SMPL
P5154-17	ME28Q4D	6603	1.3177 -	SFAM01.1	PPB	12/12/2024 13:02	SMPL
CCV022	CCV022	23367	4.7004 -	SFAM01.1	PPB	12/12/2024 13:04	SMPL
CCB022	CCB022	117	0.0089 -	SFAM01.1	PPB	12/12/2024 13:06	SMPL
P5154-18	ME28Q4S	17680	3.5528 -	SFAM01.1	PPB	12/12/2024 13:09	SMPL
P5154-19	ME28Q5	2094	0.4078 -	SFAM01.1	PPB	12/12/2024 13:11	SMPL
P5154-20	ME28R3	4485	0.8903 -	SFAM01.1	PPB	12/12/2024 13:13	SMPL
P5154-21	ME28R4	4278	0.8485 -	SFAM01.1	PPB	12/12/2024 13:16	SMPL
PB165595BL	PBS595	175	0.0206 -	SFAM01.1	PPB	12/12/2024 13:18	SMPL
P5233-01	ME28R5	1999	0.3887 -	SFAM01.1	PPB	12/12/2024 13:20	SMPL
P5233-02	ME28R6	1990	0.3869 -	SFAM01.1	PPB	12/12/2024 13:22	SMPL
P5233-03	ME28R7	647	0.1159 -	SFAM01.1	PPB	12/12/2024 13:25	SMPL
P5233-04	ME28R8	-8	-0.0163 -	SFAM01.1	PPB	12/12/2024 13:27	SMPL
P5233-05	ME28R9	380	0.062 -	SFAM01.1	PPB	12/12/2024 13:29	SMPL
P5233-06	ME28S0	5091	1.0126 -	SFAM01.1	PPB	12/12/2024 13:31	SMPL
P5233-07	ME28S1	1106	0.2085 -	SFAM01.1	PPB	12/12/2024 13:34	SMPL
P5233-08	ME28S2	2882	0.5668 -	SFAM01.1	PPB	12/12/2024 13:36	SMPL
P5233-09	ME28S3	1272	0.242 -	SFAM01.1	PPB	12/12/2024 13:38	SMPL
P5233-10	ME28S4	1446	0.2771 -	SFAM01.1	PPB	12/12/2024 13:40	SMPL
P5233-11	ME28S5	1388	0.2654 -	SFAM01.1	PPB	12/12/2024 13:43	SMPL
P5233-12	ME28S6	1367	0.2611 -	SFAM01.1	PPB	12/12/2024 13:45	SMPL
P5233-13	ME28S7	1288	0.2452 -	SFAM01.1	PPB	12/12/2024 13:47	SMPL
P5233-14	ME28S8	1540	0.296 -	SFAM01.1	PPB	12/12/2024 13:50	SMPL
P5233-15	ME28S9	998	0.1867 -	SFAM01.1	PPB	12/12/2024 13:52	SMPL
CCV023	CCV023	23447	4.7165 -	SFAM01.1	PPB	12/12/2024 13:54	SMPL
CCB023	CCB023	137	0.0129 -	SFAM01.1	PPB	12/12/2024 13:56	SMPL
P5233-16	ME28T0	1148	0.2169 -	SFAM01.1	PPB	12/12/2024 13:59	SMPL
P5233-17	ME28T1	8183	1.6365 -	SFAM01.1	PPB	12/12/2024 14:01	SMPL
P5233-18	ME28T2	907	0.1683 -	SFAM01.1	PPB	12/12/2024 14:03	SMPL
P5233-19	ME28T3	4470	0.8873 -	SFAM01.1	PPB	12/12/2024 14:05	SMPL
P5233-20	ME28S7D	4171	0.8269 -	SFAM01.1	PPB	12/12/2024 14:08	SMPL
P5233-21	ME28S7S	13789	2.7677 -	SFAM01.1	PPB	12/12/2024 14:13	SMPL
P5154-05DLX5	ME28P3	24602	4.9496 -	SFAM01.1	PPB	12/12/2024 14:15	SMPL
CCV024	CCV024	25284	5.0872 -	SFAM01.1	PPB	12/12/2024 14:20	SMPL
CCB024	CCB024	207	0.0271 -	SFAM01.1	PPB	12/12/2024 14:23	SMPL

Prep Standard - Chemical Standard Summary

Order ID : P5154

Test : Mercury

Prepbatch ID : PB165594,

Sequence ID/Qc Batch ID: LB133907,

Standard ID :

MP83208,MP83210,MP83584,MP83585,MP83586,MP83587,MP83588,MP83589,MP83590,MP83591,MP83592,MP835
93,MP83594,MP83595,MP83599,

Chemical ID :

M4371,M4916,M5062,M5882,M5884,M5953,M6121,M6126,W3112,

Metals 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>
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP83208	11/11/2024	05/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 100.00000gram of M4916 + 2000.00000ml of W3112 = Final Quantity: 2000.000 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>
67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE	MP83210	11/11/2024	05/11/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 11/11/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = Final Quantity: 2000.000 ml

Metals 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>
887	AQUA REGIA FOR HG ON 7471A	MP83584	12/11/2024	12/12/2024	Mohan Bera	None	None	Sarabjit Jaswal
								12/13/2024

FROM 150.00000ml of M6121 + 50.00000ml of M6126 = Final Quantity: 200.000 ml

<u>Recipe ID</u>	<u>NAME</u>	<u>NO.</u>	<u>Prep Date</u>	<u>Expiration Date</u>	<u>Prepared By</u>	<u>ScaleID</u>	<u>PipetteID</u>	<u>Supervised By</u>
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83585	12/12/2024	12/13/2024	Mohan Bera	None	None	Sarabjit Jaswal
								12/13/2024

FROM 1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Metals 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>
1340	Hg 0.00 PPB STD	MP83586	12/12/2024	12/12/2024	Mohan Bera	None	None	Sarabjit Jaswal
								12/13/2024

FROM 2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 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>
1341	Hg 0.2 PPB STD	MP83587	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal
								12/13/2024

FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83585 = Final Quantity: 250.000 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>
1342	Hg 2.5 PPB STD	MP83588	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal
A) FROM 2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP83585 = Final Quantity: 250.000 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>
1343	Hg 5.0 PPB STD	MP83589	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 12/13/2024
<u>FROM</u>	2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83585 = Final Quantity: 250.000 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>
1344	Hg 7.5 PPB STD	MP83590	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/13/2024
<u>FROM</u>	2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP83585 = Final Quantity: 250.000 ml A)							

<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>
1345	Hg 10.0 PPB STD	MP83591	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/13/2024
FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83585 = Final Quantity: 250.000 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>
1346	Hg ICV SOLUTION	MP83592	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 12/13/2024
<u>FROM</u>	2.50000ml of M5953 + 2.50000ml of M6126 + 245.00000ml of W3112 = Final Quantity: 250.000 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>
1351	ICB (Hg 0.00 PPB SOLUTION)	MP83593	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG A)	Sarabjit Jaswal 12/13/2024
<u>FROM</u>	2.50000ml of M6126 + 247.50000ml of W3112 = Final Quantity: 250.000 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>
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83594	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal
A) FROM 485.00000ml of W3112 + 5.00000ml of M6126 + 10.00000ml of MP83585 = Final Quantity: 500.000 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>
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83595	12/12/2024	12/13/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
A) FROM 495.00000ml of W3112 + 5.00000ml of M6126 = Final Quantity: 500.000 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>
68	STANNOUS CHLORIDE SOLUTION	MP83599	12/12/2024	12/13/2024	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal 12/13/2024
<u>FROM</u> 450.00000ml of W3112 + 50.00000gram of M5882 + 50.00000ml of M6121 = Final Quantity: 500.000 ml								

CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-2196-01 / Hydroxylamine Hydrochloride, Crystal (cs/4x500g)	0000215387	06/25/2025	07/01/2019 / RICHARD	06/07/2019 / RICHARD	M4371

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3227-05 / Potassium Permanganate (2.5kg)	210800	03/31/2026	11/30/2022 / mohan	07/28/2021 / mohan	M4916

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Inorganic Ventures	MSHG-10PPM / MERCURY HCl 125mL 10ug/mL	S2-HG709270	09/22/2026	05/28/2022 / mohan	01/27/2022 / mohan	M5062

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3980-01 / Stannous Chloride (cs/4x500g)	232820	08/31/2028	04/30/2024 / mohan	04/25/2024 / mohan	M5882

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-3624-05 / Sodium Chloride, Crystal (cs/4x2.5kg)	0000281938	07/06/2026	04/30/2024 / mohan	04/25/2024 / mohan	M5884

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
EPA	ICV-5 / ICV (HG) STOCK SOLN	ICV5-0415	01/01/2025	07/01/2024 / mohan	03/30/2023 / mohan	M5953

CHEMICAL RECEIPT LOG BOOK

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 #
Seidler Chemical	BA-9598-34 / Nitric Acid, Instra-Analyzed (cs/4x2.5L)	24D1062002	06/03/2025	12/03/2024 / Janvi	11/12/2024 / Janvi	M6126

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

M5882
 M3

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

Thermo Fisher Scientific's Quality System has been found to conform to Quality Management System
 Standard ISO9001:2015 by SAI Global Certificate Number CERT – 0120633

This is to certify that units of the lot number below were tested and found to comply with the specifications of the grade listed. Certain data have been supplied by third parties. Thermo Fisher Scientific expressly disclaims all warranties, expressed or implied, including the implied warranties of merchantability and fitness for a particular purpose. Products are for research use or further manufacturing. Not for direct administration to humans or animals. It is the responsibility of the final formulator and end user to determine suitability based upon the intended use of the end product. Products are tested to meet the analytical requirements of the noted grade. The following information is the actual analytical results obtained.

Catalog Number	T142	Quality Test / Release Date	08/17/2023
Lot Number	232820		
Description	STANNOUS CHLORIDE, DIHYDRATE CERTIFIED ACS (Suitable for Mercury Determination)		
Country of Origin	United States	Suggested Retest Date	Aug/2028
Chemical Origin	Inorganic-non animal		
BSE/TSE Comment	No animal products are used as starting raw material ingredients, or used in processing, including lubricants, processing aids, or any other material that might migrate to the finished product.		

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Clear crystals
ASSAY	%	Inclusive Between 98 - 103	100.65
CALCIUM	%	<= 0.005	0.0017
IDENTIFICATION	PASS/FAIL	= PASS TEST	PASS TEST
IRON (Fe)	%	<= 0.003	0.0011
LEAD (Pb)	%	<= 0.01	0.0006
MERCURY (Hg)	ppm	<= 0.05	<0.05
POTASSIUM (K)	%	<= 0.005	0.0001
SODIUM (Na)	%	<= 0.01	<0.01
SOLUBILITY IN HCL	PASS/FAIL	= PASS TEST	PASS TEST
SULFATE (SO4)	PASS/FAIL	= P.T. (ABOUT 0.003%)	P.T. (ABOUT 0.003%)



Harout Sahagian - Quality Control Supervisor - Fair Lawn

Note: The data listed is valid for all package sizes of this lot of this product, expressed as an extension of this catalog number listed above.

If there are any questions with this certificate, please call at (800) 227-6701.

*Based on suggested storage condition.

M4371

Hydroxylamine Hydrochloride, Crystal
BAKER ANALYZED® A.C.S. Reagent
Suitable for Mercury Determination
(hydroxylammonium chloride)

Rec - 06.07.19



avantortm

Material No.: 2196-01
Batch No.: 0000215387
Manufactured Date: 2018/06/27
Retest Date: 2025/06/25
Revision No: 1

Certificate of Analysis

Meets ACS Reagent Chemical Requirements,

Test	Specification	Result
Assay (NH ₂ OH · HCl) (by KMnO ₄ titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrate Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH ₄)	Passes Test	PT
Sulfur Compounds (as SO ₄)	<= 0.005 %	< 0.003
Trace Impurities - ACS - Heavy Metals (as Pb)	<= 5 ppm	4
Trace Impurities - Iron (Fe)	<= 5 ppm	< 3
Trace Impurities - Mercury (Hg)	<= 0.050 ppm	< 0.005

For Laboratory, Research or Manufacturing Use

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

ISO

Phillipsburg, NJ 9001:2015, FSSC22000
Paris, KY 9001:2008
Mexico City, Mexico 9001:2008
Gliwice, Poland 9001:2015, 13485:2012
Selangor, Malaysia 9001:2008
Dehradun, India, 9001:2008, 14001:2004, 13485:2003
Mumbai, India, 9001:2015, 17025:2005
Panoli, India 9001:2015

James Ethier

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

MS

Certificate of Analysis

1 Reagent Lane
 Fair Lawn, NJ 07410
 201.796.7100 tel
 201.796.1329 fax

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

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Catalog Number	P279	Quality Test / Release Date	01/12/2021
Lot Number	210306		
Description	POTASSIUM PERMANGANATE, A.C.S.		
Country of Origin	United States	Suggested Retest Date	Jan/2026

N/A			
Result Name	Units	Specifications	Test Value
APPEARANCE		REPORT	Dark purple to purple green crystals
ASSAY	%	>= 99	99.3
CHLORIDE & CHLORATE	%	<= 0.005	<0.005
IDENTIFICATION	PASS/FAIL	= PASS TEST	pass test
INSOLUBLE MATTER	%	<= 0.2	<0.2
MERCURY (Hg)	ppm	<= 0.05	<0.004
SULFATE (SO4)	%	<= 0.02	<0.02

Julian Burton

Julian Burton - Quality Control Manager – Fair Lawn

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

*Based on suggested storage condition.

300 Technology Drive
 Christiansburg, VA 24073 USA
 inorganicventures.com

P: 800-669-6799/540-585-3030
 F: 540-585-3012
 info@inorganicventures.com

MS062
 MS063
 MB

1.0 ACCREDITATION / REGISTRATION

INORGANIC VENTURES is accredited to ISO 17034, "General Requirements for the Competence of Reference Material Producers" and ISO/IEC 17025, "General Requirements for the Competence of Testing and Calibration Laboratories". Inorganic Ventures is also an ISO 9001 registered manufacturer (QSR Certificate Number QSR-1034).



2.0 PRODUCT DESCRIPTION

Product Code: Single Analyte Mass Spec Solution
 Catalog Number: MSHG-10PPM
 Lot Number: S2-HG709270
 Matrix: 10% (v/v) HCl
 Value / Analyte(s): 10 µg/mL ea:
 Mercury
 Starting Material: Hg metal
 Starting Material Lot#: 1959
 Starting Material Purity: 99.9994%

3.0 CERTIFIED VALUES AND UNCERTAINTIES

Certified Value: 10.001 ± 0.053 µg/mL
Density: 1.020 g/mL (measured at 20 ± 4 °C)

Assay Information:

ANALYTE	METHOD	NIST SRM#	SRM LOT#
Hg	ICP Assay	3133	160921
Hg	EDTA	928	928
Hg	Calculated		See Sec. 4.2

The following equations are used in the calculation of the certified value and the uncertainty. Reported uncertainties represent expanded uncertainties expressed at approximately the 95% confidence level using a coverage factor of k = 2.

Characterization of CRM/RM by Two or More Methods

Certified Value, $X_{CRM/RM}$, where two or more methods of characterization are used is the weighted mean of the results:

$$X_{CRM/RM} = \sum (w_i) (X_i)$$

X_i = mean of Assay Method i with standard uncertainty $u_{char i}$

w_i = the weighting factors for each method calculated using the inverse square of the variance.

$$w_i = (1/u_{char i}^2) / (\sum (1/u_{char i}^2))$$

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char} = [\sum ((w_i)^2 (u_{char i})^2)]^{1/2}$ where $u_{char i}$ are the errors from each characterization method

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

Characterization of CRM/RM by One Method

Certified Value, $X_{CRM/RM}$, where one method of characterization is used is the mean of individual results:

$$X_{CRM/RM} = (X_a) (u_{char a})$$

X_a = mean of Assay Method A with

$u_{char a}$ = the standard uncertainty of characterization Method A

$$CRM/RM \text{ Expanded Uncertainty } (\pm) = U_{CRM/RM} = k (u_{char a}^2 + u_{bb}^2 + u_{lts}^2 + u_{ts}^2)^{1/2}$$

k = coverage factor = 2

$u_{char a}$ = the errors from characterization

u_{bb} = bottle to bottle homogeneity standard uncertainty

u_{lts} = long term stability standard uncertainty (storage)

u_{ts} = transport stability standard uncertainty

4.0 TRACEABILITY TO NIST

- This product is traceable to NIST via an unbroken chain of comparisons. The uncertainties for each certified value are reported, taking into account the SRM/RM uncertainty error and the measurement, weighing and volume dilution errors. In rare cases where no NIST SRM/RM are available, the term 'in-house std.' is specified.

4.1 Thermometer Calibration

- All thermometers are NIST traceable through thermometers that are calibrated by an accredited calibration laboratory.

4.2 Balance Calibration

- All analytical balances are calibrated by an accredited calibration laboratory and procedure. The weights used for testing are annually compared to master weights and are traceable to NIST.

4.3 Glassware Calibration

- An in-house procedure is used to calibrate all Class A glassware used in the manufacturing and quality control of CRM/RMs.

5.0 TRACE METALLIC IMPURITIES (TMI) DETERMINED BY ICP-MS AND ICP-OES (µg/mL)

CRM/RMs are tested for trace metallic impurities by Axial ICP-OES and ICP-MS. The result from the most sensitive method for each element, is reported below. Solutions tested by ICP-MS were analyzed in an ULPA-Filtered Clean Room. An ULPA-Filter is 99.9985% efficient for the removal of particles down to 0.3 µm.

O	Ag	0.000011	M	Eu	<	0.000201	O	Na	0.000004	M	Se	<	0.015915	O	Zn	<	0.001510
O	Al	0.000001	O	Fe	0.000001	M	Nb	<	0.000201	O	Si	0.000005	M	Zr	<	0.000201	
M	As	<	0.000402	M	Ga	<	0.000201	M	Nd	<	0.000201	M	Sm	<	0.000201		
M	Au	<	0.003631	M	Gd	<	0.000201	M	Ni	<	0.000402	M	Sn	<	0.001007		
M	B	<	0.001208	M	Ge	<	0.000201	M	Os	<	0.000605	M	Sr	<	0.000201		
M	Ba	<	0.000201	M	Hf	<	0.000201	O	P	<	0.032370	M	Ta	<	0.000201		
M	Be	<	0.000201	s	Hg	<		M	Pb	<	0.000201	M	Tb	<	0.000201		
M	Bi	<	0.000201	M	Ho	<	0.000201	M	Pd	<	0.000403	M	Te	<	0.002216		
O	Ca	0.000007	M	In	<	0.000201	M	Pr	<	0.000201	M	Th	<	0.000201			
M	Cd	<	0.000201	M	Ir	<	0.000201	M	Pt	<	0.000402	M	Ti	<	0.000402		
M	Ce	<	0.000201	O	K	0.000020	M	Rb	<	0.000201	O	Tl	<	0.016508			
M	Co	<	0.000201	M	La	<	0.000201	M	Re	<	0.000201	M	Tm	<	0.000201		
O	Cr	<	0.003021	O	Li	<	0.000107	M	Rh	<	0.000201	M	U	<	0.008058		
M	Cs	<	0.001208	M	Lu	<	0.000201	M	Ru	<	0.000201	M	V	<	0.000201		
M	Cu	<	0.000402	O	Mg	0.000001	O	S	<	0.053950	M	W	<	0.000604			
M	Dy	<	0.000201	M	Mn	<	0.000604	M	Sb	<	0.001208	M	Y	<	0.000201		
M	Er	<	0.000201	M	Mo	0.000009	M	Sc	<	0.000201	M	Yb	<	0.000201			

M - Checked by ICP-MS O - Checked by ICP-OES i - Spectral Interference
n - Not Checked For s - Solution Standard Element

6.0 INTENDED USE

- For the calibration of analytical instruments and validation of analytical methods as appropriate.

7.0 INSTRUCTIONS FOR THE CORRECT USE OF THIS REFERENCE MATERIAL

7.1 Storage and Handling Recommendations

- Store between approximately 4° - 30° C while in sealed TCT bag.

- While stored in the sealed TCT bag, transpiration of this CRM/RM is negligible. After opening the sealed TCT bag transpiration of the CRM/RM will occur, resulting in a gradual increase in the analyte concentration(s). It is the responsibility of the user to account for this effect. When the bottle is weighed both before and after being placed in storage, the mass difference observed will be a measure of transpiration mass loss.

- After opening the sealed TCT bag, keep cap tightly sealed when not in use and store between 4° - 24° C to minimize the effects of transpiration. Use at 20° ± 4° C to minimize volumetric dilution error when using the reported density. Do not pipette from the container. Do not return removed aliquots to container.

- For more information, visit www.inorganicventures.com/TCT

Atomic Weight; Valence; Coordination Number; Chemical Form in Solution - 200.59 +2 4 Hg(OH)(aq) 1+

Chemical Compatibility - Stable in HNO₃. Avoid basic media forming insoluble carbonate. The sulfide, basic carbonate, oxalate, phosphate, arsenite, arsenate and iodide are insoluble in water.

Stability - 2-100 ppb levels not stable in 1% HNO₃ / LDPE container, stable in 10% HNO₃ packaged in borosilicate glass. 1-100 ppm levels stable in 7% HNO₃ packaged in borosilicate glass. 1000-10,000 ppm solutions are chemically stable for years in 5-10% HNO₃ / LDPE container.

Hg Containing Samples (Preparation and Solution) - Metal (soluble in HNO₃); Oxide (Soluble in HNO₃); Ores and Organic based (The literature has more references to the preparation of Hg containing samples than any other element. Please consult the literature for your specific sample type, since such preparations are prone to error. Or e-mail our technical staff and we will contact you to discuss your particular sample preparation questions in further detail.).

Atomic Spectroscopic Information (ICP-OES D.L.s are given as radial/axial view):

Technique/Line	Estimated D.L.	Order	Interferences (underlined indicates severe)
ICP-MS 202 amu	9 ppt	n/a	186W16O
ICP-OES 184.950 nm	0.03 / 0.005 µg/mL	1	
ICP-OES 194.227 nm	0.03 / 0.005 µg/mL	1	V
ICP-OES 253.652 nm	0.1 / 0.03 µg/mL	1	Ta, Co, Th ,Rh , Fe, U

8.0 HAZARDOUS INFORMATION

- Please refer to the Safety Data Sheet for information regarding this CRM/RM.

9.0 HOMOGENEITY

- This solution was mixed according to an in-house procedure and is guaranteed to be homogeneous. Homogeneity data indicate that the end user should take a minimum sample size of 0.2 mL to assure homogeneity.

10.0 QUALITY STANDARD DOCUMENTATION

10.1 ISO 9001 Quality Management System Registration

- QSR Certificate Number QSR-1034

10.2 ISO/IEC 17025 "General Requirements for the Competence of Testing and Calibration Laboratories"

- Chemical Testing - Accredited / A2LA Certificate Number 883.01

10.3 ISO 17034 "General Requirements for the Competence of Reference Material Producers"

- Reference Material Producer - Accredited / A2LA Certificate Number 883.02

Inorganic Ventures, 300 Technology Drive, Christiansburg, Va, 24073, USA; Telephone: 800.669.6799; 540.585.3030, Fax: 540.585.3012; inorganicventures.com; info@inorganicventures.com

11.0 CERTIFICATION, LOT EXPIRATION AND PERIOD OF VALIDITY

11.1 Certification Issue Date

September 22, 2021

- The certification is valid within the measurement uncertainty specified provided the CRM/RM is stored and handled in accordance with instructions given in Sec 7.1. This certification is nullified if instructions in Sec 7.1 are not followed or if the CRM/RM is damaged, contaminated, or otherwise modified.

11.2 Lot Expiration Date

- **September 22, 2026**

- The date after which this CRM/RM should not be used.
- The lot expiration date reflects the period of time that the stability of a CRM/RM can be supported by long term stability studies conducted on properly stored and handled CRM/RMs. Lot expiration is limited primarily by transpiration (loss of water from the solution) and infrequently by chemical stability.

11.3 Period of Validity

- Sealed TCT Bag Open Date: _____

- This CRM/RM should not be used longer than one year (or six months in the case of a 30 mL bottle) from the date of opening the aluminized bag or after the date given in Sec. 11.2, whichever comes first. This is contingent upon the CRM/RM being stored and handled in accordance with the instructions given in Sec. 7.1.

12.0 NAMES AND SIGNATURES OF CERTIFYING OFFICERS

Certificate Prepared By:

Uyen Truong
Supervisor, Product Documentation



Certificate Approved By:

Michael Booth
Director, Quality Control



Certifying Officer:

Paul Gaines
Chairman / Senior Technical Director



Sodium Chloride, Crystal
BAKER ANALYZED® A.C.S. Reagent



MS824
MB

Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

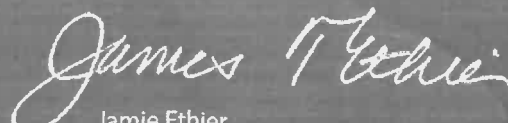
Retest Date: 2026-06-07

Revision No.: 1

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	$\geq 99.0 \%$	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	$\leq 0.005 \%$	0.003 %
Iodide (I)	$\leq 0.002 \%$	< 0.002 %
Bromide (Br)	$\leq 0.01 \%$	< 0.01 %
Chlorate and Nitrate (as NO ₃)	$\leq 0.003 \%$	< 0.001 %
ACS - Phosphate (PO ₄)	≤ 5 ppm	< 5 ppm
Sulfate (SO ₄)	$\leq 0.004 \%$	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	≤ 5 ppm	< 5 ppm
Iron (Fe)	≤ 2 ppm	< 1 ppm
Calcium (Ca)	$\leq 0.002 \%$	< 0.001 %
Magnesium (Mg)	$\leq 0.001 \%$	< 0.001 %
Potassium (K)	$\leq 0.005 \%$	0.001 %

For Laboratory, Research, or Manufacturing Use
Meets Reagent Specifications for testing USP/NF monographs
Country of Origin: USA
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 Mansford Rd, Suite 200, Radnor, PA 19087. U.S.A. Phone 610.386.1700



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.



M5528-32
M5953
3/30/23

(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.





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

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

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

avantor™



R → 16/13/24
Met dig

M 6121

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

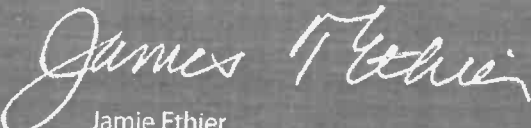
Product Information (not specifications):

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

Nitric Acid 69%
CMOS



R → 11/12/24

M6126

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

Certificate of Analysis

Test	Specification	Result
Assay (HNO ₃)	69.0 – 70.0 %	69.7 %
Appearance	Passes Test	Passes Test
Color (APHA)	≤ 10	5
Residue after Ignition	≤ 2 ppm	1 ppm
Chloride (Cl)	≤ 0.08 ppm	< 0.03 ppm
Phosphate (PO ₄)	≤ 0.10 ppm	< 0.03 ppm
Sulfate (SO ₄)	≤ 0.2 ppm	< 0.2 ppm
Trace Impurities – Aluminum (Al)	≤ 40.0 ppb	< 1.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities – Barium (Ba)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Beryllium (Be)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Bismuth (Bi)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Boron (B)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities – Cadmium (Cd)	≤ 50 ppb	< 1 ppb
Trace Impurities – Calcium (Ca)	≤ 50.0 ppb	2.3 ppb
Trace Impurities – Chromium (Cr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Cobalt (Co)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Copper (Cu)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Gallium (Ga)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Germanium (Ge)	≤ 20 ppb	< 10 ppb
Trace Impurities – Gold (Au)	≤ 20 ppb	< 5 ppb
Heavy Metals (as Pb)	≤ 100 ppb	100 ppb
Trace Impurities – Iron (Fe)	≤ 40.0 ppb	< 1.0 ppb
Trace Impurities – Lead (Pb)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities – Lithium (Li)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Magnesium (Mg)	≤ 20 ppb	< 1 ppb
Trace Impurities – Manganese (Mn)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>

Nitric Acid 69%
CMOS

 **avantor**TM



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

Test	Specification	Result
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For Microelectronic Use

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



Jamie Croak
Director Quality Operations, Bioscience Production

SOP ID : M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2
SDG No : ME28N9 **Start Digest Date:** 12/12/2024 **Time :** 08:10 **Temp :** 94 °C
Matrix : SOIL **End Digest Date:** 12/12/2024 **Time :** 08:40 **Temp :** 94 °C
Pipette ID: HG A **Digestion tube ID:** M6054
Balance ID : M SC-3 **Block thermometer ID:** HG-DIG#2
Filter paper ID : N/A **Dig Technician Signature:** MB
pH Strip ID : NA **Supervisor Signature:** 12
Hood ID : #1 **Temp :** 1. 94°C 2. N/A
Block ID: 1. HG HOT BLOCK#2 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP83592
CCV	100mL	MP83594
Matrix Spike	1.0mL	MP83585
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP83584
KMnO4 (5%)	15.0mL	MP83208
Hydroxylamine HCL (12%)	6.0mL	MP83210
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
0.0 ppb	S0	100mL	MP83586
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP83587
2.5 ppb	S2.5	100mL	MP83588
5.0 ppb	S5.0	100mL	MP83589
7.5 ppb	S7.5	100mL	MP83590
10.0 ppb	S10.0	100mL	MP83591
ICV	ICV	100mL	MP83592
ICB	ICB	100mL	MP83593
CCV	CCV	100mL	MP83594
CCB	CCB	100mL	MP83595
CRI	CRI	N/A	N/A
CHK STD	CHK STD	N/A	N/A

Extraction Conformance/Non-Conformance Comments:

N/A		
Date / Time	Prepped Sample Relinquished By/Location	Received By/Location
12/12/24 @ 9:35	MB - Dig #1 Lab	MB - Metals Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P5154-01	ME28N9	0.58	100	NA	N/A	1-1
P5154-02	ME28P0	0.55	100	NA	N/A	2
P5154-03	ME28P1	0.58	100	NA	N/A	3
P5154-04	ME28P2	0.57	100	NA	N/A	4
P5154-05	ME28P3	0.52	100	NA	N/A	5
P5154-06	ME28P4	0.52	100	NA	N/A	6
P5154-07	ME28P5	0.53	100	NA	N/A	7
P5154-08	ME28P6	0.50	100	NA	N/A	8
P5154-09	ME28P7	0.57	100	NA	N/A	9
P5154-10	ME28P8	0.56	100	NA	N/A	10
P5154-11	ME28P9	0.55	100	NA	N/A	11
P5154-12	ME28Q0	0.56	100	NA	N/A	12
P5154-13	ME28Q1	0.51	100	NA	N/A	13
P5154-14	ME28Q2	0.54	100	NA	N/A	14
P5154-15	ME28Q3	0.60	100	NA	N/A	15
P5154-16	ME28Q4	0.55	100	NA	N/A	16
P5154-17	ME28Q4D	0.55	100	NA	N/A	17
P5154-18	ME28Q4S	0.58	100	NA	MP83585	18
P5154-19	ME28Q5	0.52	100	NA	N/A	19
P5154-20	ME28R3	0.53	100	NA	N/A	20
P5154-21	ME28R4	0.52	100	NA	N/A	21
PB165594BL	PBS594	0.50	100	NA	N/A	22

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133907

Review By	Sarabjit Jaswal	Review On	12/13/2024 1:10:41 AM
Supervise By	Mohan Bera	Supervise On	12/13/2024 1:11:28 AM

STD. NAME	STD REF.#
ICAL Standard	MP83586,MP83587,MP83588,MP83589,MP83590,MP83591
ICV Standard	MP83592
CCV Standard	MP83594
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83593,MP83595,MP83599

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/12/24 10:54		Mohan	OK
2	S0.2	S01	CAL2	12/12/24 10:56		Mohan	OK
3	S2.5	S02	CAL3	12/12/24 11:00		Mohan	OK
4	S5	S03	CAL4	12/12/24 11:03		Mohan	OK
5	S7.5	S04	CAL5	12/12/24 11:05		Mohan	OK
6	S10	S05	CAL6	12/12/24 11:12		Mohan	OK
7	ICV017	ICV017	ICV	12/12/24 11:17		Mohan	OK
8	ICB017	ICB017	ICB	12/12/24 11:19		Mohan	OK
9	CCV020	CCV020	CCV	12/12/24 11:22		Mohan	OK
10	CCB020	CCB020	CCB	12/12/24 11:24		Mohan	OK
11	PB165593BL	PBS593	MB	12/12/24 11:26		Mohan	OK
12	P5067-01	ME28M0	SAM	12/12/24 11:28		Mohan	OK
13	P5067-02	ME28M1	SAM	12/12/24 11:31		Mohan	OK
14	P5067-03	ME28M2	SAM	12/12/24 11:33		Mohan	OK
15	P5067-04	ME28M3	SAM	12/12/24 11:35		Mohan	OK
16	P5067-05	ME28M4	SAM	12/12/24 11:38		Mohan	OK
17	P5067-06	ME28M5	SAM	12/12/24 11:40		Mohan	OK
18	P5067-07	ME28M6	SAM	12/12/24 11:42		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133907

Review By	Sarabjit Jaswal	Review On	12/13/2024 1:10:41 AM
Supervise By	Mohan Bera	Supervise On	12/13/2024 1:11:28 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83586,MP83587,MP83588,MP83589,MP83590,MP83591		
ICV Standard	MP83592		
CCV Standard	MP83594		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83593,MP83595,MP83599		

19	P5067-08	ME28M7	SAM	12/12/24 11:44		Mohan	OK
20	P5067-09	ME28M8	SAM	12/12/24 11:47		Mohan	OK
21	P5067-10	ME28M9	SAM	12/12/24 11:49		Mohan	OK
22	P5067-11	ME28N0	SAM	12/12/24 11:51		Mohan	OK
23	P5067-12	ME28N1	SAM	12/12/24 11:53		Mohan	OK
24	P5067-13	ME28N2	SAM	12/12/24 11:56		Mohan	OK
25	P5067-14	ME28N3	SAM	12/12/24 11:58		Mohan	OK
26	P5067-15	ME28N4	SAM	12/12/24 12:00		Mohan	OK
27	P5067-16	ME28N5	SAM	12/12/24 12:02		Mohan	OK
28	P5067-17	ME28N6	SAM	12/12/24 12:05		Mohan	OK
29	P5067-18	ME28N7	SAM	12/12/24 12:07		Mohan	OK
30	P5067-19	ME28N8	SAM	12/12/24 12:09		Mohan	OK
31	CCV021	CCV021	CCV	12/12/24 12:12		Mohan	OK
32	CCB021	CCB021	CCB	12/12/24 12:14		Mohan	OK
33	P5067-20	ME28N8D	DUP	12/12/24 12:19		Mohan	OK
34	P5067-21	ME28N8S	MS	12/12/24 12:21		Mohan	OK
35	PB165594BL	PBS594	MB	12/12/24 12:23		Mohan	OK
36	P5154-01	ME28N9	SAM	12/12/24 12:25		Mohan	OK
37	P5154-02	ME28P0	SAM	12/12/24 12:28		Mohan	OK
38	P5154-03	ME28P1	SAM	12/12/24 12:30		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133907

Review By	Sarabjit Jaswal	Review On	12/13/2024 1:10:41 AM
Supervise By	Mohan Bera	Supervise On	12/13/2024 1:11:28 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83586,MP83587,MP83588,MP83589,MP83590,MP83591		
ICV Standard	MP83592		
CCV Standard	MP83594		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83593,MP83595,MP83599		

39	P5154-04	ME28P2	SAM	12/12/24 12:32		Mohan	OK
40	P5154-05	ME28P3	SAM	12/12/24 12:35	Hg High	Mohan	Dilution
41	P5154-06	ME28P4	SAM	12/12/24 12:37		Mohan	OK
42	P5154-07	ME28P5	SAM	12/12/24 12:39		Mohan	OK
43	P5154-08	ME28P6	SAM	12/12/24 12:42		Mohan	OK
44	P5154-09	ME28P7	SAM	12/12/24 12:44		Mohan	OK
45	P5154-10	ME28P8	SAM	12/12/24 12:46		Mohan	OK
46	P5154-11	ME28P9	SAM	12/12/24 12:48		Mohan	OK
47	P5154-12	ME28Q0	SAM	12/12/24 12:51		Mohan	OK
48	P5154-13	ME28Q1	SAM	12/12/24 12:53		Mohan	OK
49	P5154-14	ME28Q2	SAM	12/12/24 12:55		Mohan	OK
50	P5154-15	ME28Q3	SAM	12/12/24 12:57		Mohan	OK
51	P5154-16	ME28Q4	SAM	12/12/24 13:00		Mohan	OK
52	P5154-17	ME28Q4D	DUP	12/12/24 13:02		Mohan	OK
53	CCV022	CCV022	CCV	12/12/24 13:04		Mohan	OK
54	CCB022	CCB022	CCB	12/12/24 13:06		Mohan	OK
55	P5154-18	ME28Q4S	MS	12/12/24 13:09		Mohan	OK
56	P5154-19	ME28Q5	SAM	12/12/24 13:11		Mohan	OK
57	P5154-20	ME28R3	SAM	12/12/24 13:13		Mohan	OK
58	P5154-21	ME28R4	SAM	12/12/24 13:16		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133907

Review By	Sarabjit Jaswal	Review On	12/13/2024 1:10:41 AM
Supervise By	Mohan Bera	Supervise On	12/13/2024 1:11:28 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83586,MP83587,MP83588,MP83589,MP83590,MP83591		
ICV Standard	MP83592		
CCV Standard	MP83594		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83593,MP83595,MP83599		

59	PB165595BL	PBS595	MB	12/12/24 13:18		Mohan	OK
60	P5233-01	ME28R5	SAM	12/12/24 13:20		Mohan	OK
61	P5233-02	ME28R6	SAM	12/12/24 13:22		Mohan	OK
62	P5233-03	ME28R7	SAM	12/12/24 13:25		Mohan	OK
63	P5233-04	ME28R8	SAM	12/12/24 13:27		Mohan	OK
64	P5233-05	ME28R9	SAM	12/12/24 13:29		Mohan	OK
65	P5233-06	ME28S0	SAM	12/12/24 13:31		Mohan	OK
66	P5233-07	ME28S1	SAM	12/12/24 13:34		Mohan	OK
67	P5233-08	ME28S2	SAM	12/12/24 13:36		Mohan	OK
68	P5233-09	ME28S3	SAM	12/12/24 13:38		Mohan	OK
69	P5233-10	ME28S4	SAM	12/12/24 13:40		Mohan	OK
70	P5233-11	ME28S5	SAM	12/12/24 13:43		Mohan	OK
71	P5233-12	ME28S6	SAM	12/12/24 13:45		Mohan	OK
72	P5233-13	ME28S7	SAM	12/12/24 13:47		Mohan	OK
73	P5233-14	ME28S8	SAM	12/12/24 13:50		Mohan	OK
74	P5233-15	ME28S9	SAM	12/12/24 13:52		Mohan	OK
75	CCV023	CCV023	CCV	12/12/24 13:54		Mohan	OK
76	CCB023	CCB023	CCB	12/12/24 13:56		Mohan	OK
77	P5233-16	ME28T0	SAM	12/12/24 13:59		Mohan	OK
78	P5233-17	ME28T1	SAM	12/12/24 14:01		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB133907

Review By	Sarabjit Jaswal	Review On	12/13/2024 1:10:41 AM
Supervise By	Mohan Bera	Supervise On	12/13/2024 1:11:28 AM
STD. NAME	STD REF.#		
ICAL Standard	MP83586,MP83587,MP83588,MP83589,MP83590,MP83591		
ICV Standard	MP83592		
CCV Standard	MP83594		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83593,MP83595,MP83599		

79	P5233-18	ME28T2	SAM	12/12/24 14:03		Mohan	OK
80	P5233-19	ME28T3	SAM	12/12/24 14:05		Mohan	OK
81	P5233-20	ME28S7D	DUP	12/12/24 14:08		Mohan	OK
82	P5233-21	ME28S7S	MS	12/12/24 14:13		Mohan	OK
83	P5154-05DL	ME28P3	SAM	12/12/24 14:15	5X for Hg	Mohan	Confirms
84	CCV024	CCV024	CCV	12/12/24 14:20		Mohan	OK
85	CCB024	CCB024	CCB	12/12/24 14:23		Mohan	OK