

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Y6

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-01
% Solids: 83.9 Date Received: 12/12/2024
Analytical Method: 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	0.027	J*	12/26/2024	1638

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

Comments:

FORM 1 - IN
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ME28Y7

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-02
% Solids: 81.3 Date Received: 12/12/2024
Analytical Method: 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	0.053	J*	12/26/2024	1640

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

Comments:

EPA SAMPLE NO.

ME28Y8

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-03
% Solids: 82.7 Date Received: 12/12/2024
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	0.059	J*	12/26/2024	1643

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

Comments:

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ME28Y9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-04
% Solids: 79.8 Date Received: 12/12/2024
Analytical Method: 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	0.049	J*	12/26/2024	1645

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

Comments:

EPA SAMPLE NO.

ME28Z0

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-05
% Solids: 77.5 Date Received: 12/12/2024

Analytical Method: 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	0.056	J*	12/26/2024	1647

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

EPA SAMPLE NO.

ME28Z1

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6Matrix: SOIL Lab Sample ID: P5266-06% Solids: 81.7 Date Received: 12/12/2024Analytical 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	0.045	J*	12/26/2024	1650

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

EPA SAMPLE NO.

ME28Z2

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6Matrix: SOIL Lab Sample ID: P5266-07% Solids: 80.3 Date Received: 12/12/2024Analytical 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	0.090	J*	12/26/2024	1652

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

EPA SAMPLE NO.

ME28Z3

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEETLab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6Matrix: SOIL Lab Sample ID: P5266-08% Solids: 78.3 Date Received: 12/12/2024Analytical 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	0.066	J*	12/26/2024	1654

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

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ME28Z4

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-09
% Solids: 81.4 Date Received: 12/12/2024
Analytical Method: 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	0.067	J*	12/26/2024	1656

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

Comments:

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ME28Z5

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-10
% Solids: 79.9 Date Received: 12/12/2024
Analytical Method: 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*	12/26/2024	1659

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

ME28Z6

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-11
% Solids: 79.1 Date Received: 12/12/2024
Analytical Method: 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	0.067	J*	12/26/2024	1701

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

Comments:

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

ME28Z7

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-12
% Solids: 81.5 Date Received: 12/12/2024

Analytical Method: 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*	12/26/2024	1703

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

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ME28Z8

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-13
% Solids: 82.5 Date Received: 12/12/2024

Analytical Method: 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*	12/26/2024	1705

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

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ME28Z9

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-14
% Solids: 87.6 Date Received: 12/12/2024
Analytical Method: 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	0.028	J*	12/26/2024	1708

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

Comments:

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ME2900

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-15
% Solids: 85.2 Date Received: 12/12/2024

Analytical Method: 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	0.036	J*	12/26/2024	1710

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

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ME2901

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-16
% Solids: 82.1 Date Received: 12/12/2024
Analytical Method: 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	0.037	J*	12/26/2024	1712

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

Comments:

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ME2902

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-17
% Solids: 82.5 Date Received: 12/12/2024
Analytical Method: 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	0.068	J*	12/26/2024	1714

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

Comments:

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INORGANIC ANALYSIS DATA SHEET

ME2903

Lab Name: Alliance Technical Group, LLC Contract: 68HERH20D0011
Lab Code: ACE Case No.: 51847 MA No. : SDG No.: ME28Y6
Matrix: SOIL Lab Sample ID: P5266-18
% Solids: 68.9 Date Received: 12/12/2024
Analytical Method: 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	0.22	*	12/26/2024	1721

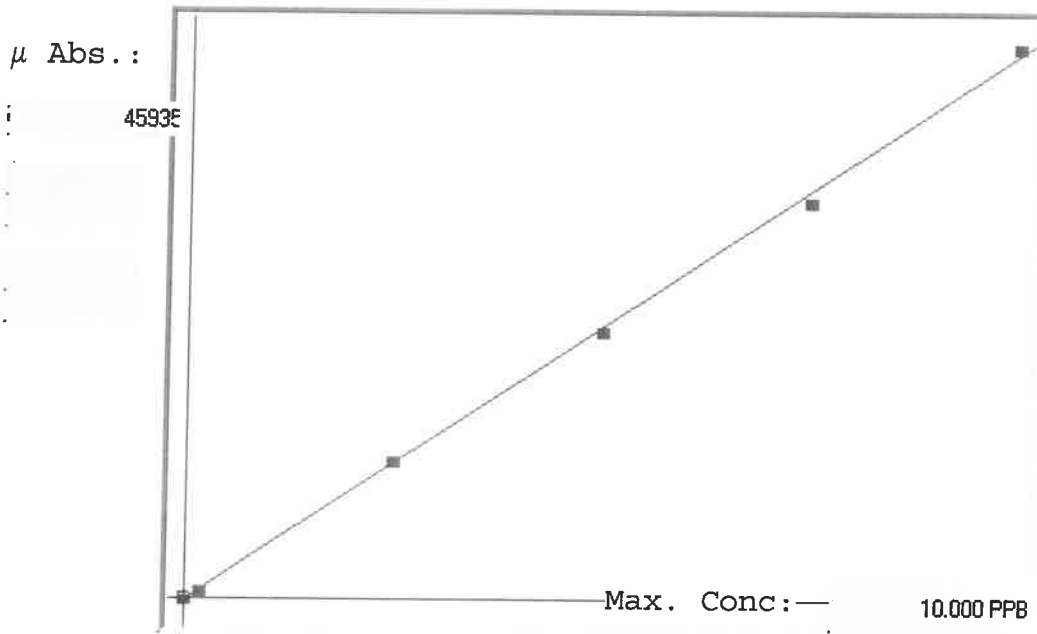
NOTE: Hardness (total) is reported in mg/L

Comments:

L3134089

SFAM01.1 INSTRUMENT ID: CV1

Linear



A= 0.0000e+000
B= 2.2035e-004 slope
C= 2.3258e-002 y-intercept
Rho= 0.9996130
Accept=Accepted

Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	σ/μ
0.00	0.000	0.047	0.047	106	0.000	106	0				0/10
0.05	0.050					442	0				1
0.20	0.200	0.191	-0.009	761	0.0 %	761					5
2.50	2.500	2.556	0.056	11496	0.0 %	11496					2
5.00	5.000	4.944	-0.056	22332	0.0 %	22332					1
7.50	7.500	7.317	-0.183	33099	0.0 %	33099					2
10.0	10.000	10.145	0.145	45935	0.0 %	45935					1

LB134089

INSTRUMENT ID : CV1

Sample ID	Extended ID	μ Abs.	Conc.	Std Conc	Method	Units	Date	Type
	0 S0	106	-		0 SFAM01.1	PPB	12/26/2024 15:10	Std
	0.2 S01	761	-		0.2 SFAM01.1	PPB	12/26/2024 15:12	Std
	2.5 S02	11496	-		2.5 SFAM01.1	PPB	12/26/2024 15:14	Std
	5 S03	22332	-		5 SFAM01.1	PPB	12/26/2024 15:16	Std
	7.5 S04	33099	-		7.5 SFAM01.1	PPB	12/26/2024 15:21	Std
	10 S05	45935	-		10 SFAM01.1	PPB	12/26/2024 15:26	Std
ICV032	ICV032	16745	3.7131 -		SFAM01.1	PPB	12/26/2024 15:29	SMPL
ICB032	ICB032	-29	0.0169 -		SFAM01.1	PPB	12/26/2024 15:31	SMPL
CCV070	CCV070	22875	5.0638 -		SFAM01.1	PPB	12/26/2024 15:34	SMPL
CCB070	CCB070	-54	0.0114 -		SFAM01.1	PPB	12/26/2024 15:36	SMPL
PB165864BL	PBS864	236	0.0753 -		SFAM01.1	PPB	12/26/2024 15:38	SMPL
P5259-01	ME28W7	3187	0.7255 -		SFAM01.1	PPB	12/26/2024 15:41	SMPL
P5259-02	ME28W8	3736	0.8465 -		SFAM01.1	PPB	12/26/2024 15:43	SMPL
P5259-03	ME28W9	2421	0.5567 -		SFAM01.1	PPB	12/26/2024 15:45	SMPL
P5259-04	ME28X0	2298	0.5296 -		SFAM01.1	PPB	12/26/2024 15:47	SMPL
P5259-05	ME28X0D	2180	0.5036 -		SFAM01.1	PPB	12/26/2024 15:50	SMPL
P5259-06	ME28X0S	13680	3.0377 -		SFAM01.1	PPB	12/26/2024 15:52	SMPL
P5259-07	ME28X1	2050	0.475 -		SFAM01.1	PPB	12/26/2024 15:54	SMPL
P5259-08	ME28X2	2890	0.6601 -		SFAM01.1	PPB	12/26/2024 15:56	SMPL
P5259-09	ME28X3	1953	0.4536 -		SFAM01.1	PPB	12/26/2024 15:59	SMPL
P5259-10	ME28X4	1965	0.4563 -		SFAM01.1	PPB	12/26/2024 16:01	SMPL
P5259-11	ME28X5	1009	0.2456 -		SFAM01.1	PPB	12/26/2024 16:03	SMPL
P5259-12	ME28X6	1888	0.4393 -		SFAM01.1	PPB	12/26/2024 16:05	SMPL
P5259-13	ME28X7	950	0.2326 -		SFAM01.1	PPB	12/26/2024 16:08	SMPL
P5259-14	ME28X8	353	0.101 -		SFAM01.1	PPB	12/26/2024 16:10	SMPL
P5259-15	ME28X9	1406	0.3331 -		SFAM01.1	PPB	12/26/2024 16:12	SMPL
P5259-16	ME28Y0	6270	1.4049 -		SFAM01.1	PPB	12/26/2024 16:14	SMPL
P5259-17	ME28Y1	671	0.1711 -		SFAM01.1	PPB	12/26/2024 16:17	SMPL
P5259-18	ME28Y2	665	0.1698 -		SFAM01.1	PPB	12/26/2024 16:19	SMPL
P5259-19	ME28Y3	818	0.2035 -		SFAM01.1	PPB	12/26/2024 16:21	SMPL
CCV071	CCV071	23555	5.2137 -		SFAM01.1	PPB	12/26/2024 16:24	SMPL
CCB071	CCB071	6	0.0246 -		SFAM01.1	PPB	12/26/2024 16:26	SMPL
P5259-20	ME28Y4	636	0.1634 -		SFAM01.1	PPB	12/26/2024 16:28	SMPL
P5259-21	ME28Y5	504	0.1343 -		SFAM01.1	PPB	12/26/2024 16:31	SMPL
PB165865BL	PBS865	47	0.0336 -		SFAM01.1	PPB	12/26/2024 16:36	SMPL
P5266-01	ME28Y6	418	0.1154 -		SFAM01.1	PPB	12/26/2024 16:38	SMPL
P5266-02	ME28Y7	1069	0.2588 -		SFAM01.1	PPB	12/26/2024 16:40	SMPL
P5266-03	ME28Y8	1100	0.2656 -		SFAM01.1	PPB	12/26/2024 16:43	SMPL
P5266-04	ME28Y9	831	0.2064 -		SFAM01.1	PPB	12/26/2024 16:45	SMPL
P5266-05	ME28Z0	1011	0.246 -		SFAM01.1	PPB	12/26/2024 16:47	SMPL
P5266-06	ME28Z1	810	0.2017 -		SFAM01.1	PPB	12/26/2024 16:50	SMPL
P5266-07	ME28Z2	1868	0.4349 -		SFAM01.1	PPB	12/26/2024 16:52	SMPL
P5266-08	ME28Z3	1066	0.2582 -		SFAM01.1	PPB	12/26/2024 16:54	SMPL
P5266-09	ME28Z4	1298	0.3093 -		SFAM01.1	PPB	12/26/2024 16:56	SMPL
P5266-10	ME28Z5	1193	0.2861 -		SFAM01.1	PPB	12/26/2024 16:59	SMPL
P5266-11	ME28Z6	1141	0.2747 -		SFAM01.1	PPB	12/26/2024 17:01	SMPL

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INSTRUMENT ID : CV1

P5266-12	ME28Z7	694	0.1762	-	SFAM01.1	PPB	12/26/2024 17:03	SMPL
P5266-13	ME28Z8	340	0.0982	-	SFAM01.1	PPB	12/26/2024 17:05	SMPL
P5266-14	ME28Z9	463	0.1253	-	SFAM01.1	PPB	12/26/2024 17:08	SMPL
P5266-15	ME2900	721	0.1821	-	SFAM01.1	PPB	12/26/2024 17:10	SMPL
P5266-16	ME2901	646	0.1656	-	SFAM01.1	PPB	12/26/2024 17:12	SMPL
P5266-17	ME2902	1164	0.2797	-	SFAM01.1	PPB	12/26/2024 17:14	SMPL
CCV072	CCV072	24004	5.3126	-	SFAM01.1	PPB	12/26/2024 17:17	SMPL
CCB072	CCB072	-6	0.0219	-	SFAM01.1	PPB	12/26/2024 17:19	SMPL
P5266-18	ME2903	3542	0.8037	-	SFAM01.1	PPB	12/26/2024 17:21	SMPL
P5266-19	ME28Y9D	3671	0.8322	-	SFAM01.1	PPB	12/26/2024 17:24	SMPL
P5266-20	ME28Y9S	14978	3.3237	-	SFAM01.1	PPB	12/26/2024 17:26	SMPL
CCV073	CCV073	23685	5.2423	-	SFAM01.1	PPB	12/26/2024 17:28	SMPL
CCB073	CCB073	-3	0.0226	-	SFAM01.1	PPB	12/26/2024 17:30	SMPL

Prep Standard - Chemical Standard Summary

Order ID : P5266

Test : Mercury

Prepbatch ID : PB165865,

Sequence ID/Qc Batch ID: LB134089,

Standard ID :

MP83692,MP83694,MP83765,MP83766,MP83767,MP83768,MP83769,MP83770,MP83771,MP83772,MP83773,MP83774,MP83775,MP83778,MP83779,

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 %	MP83692	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal
								12/18/2024

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 SOLUTION	MP83694	12/18/2024	06/18/2025	Mohan Bera	METALS_SCALE_3 (M SC-3)	None	Sarabjit Jaswal
								12/18/2024

FROM 2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5884 = 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>
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP83765	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/27/2024

A)

<u>FROM</u>	1.00000ml of M6126 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml
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<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	MP83766	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal
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	MP83767	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/27/2024
FROM 2.50000ml of M6126 + 247.30000ml of W3112 + 0.20000ml of MP83765 = 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	MP83768	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/27/2024
<u>FROM</u>	2.50000ml of M6126 + 245.00000ml of W3112 + 2.50000ml of MP83765 = 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	MP83769	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
A) FROM 2.50000ml of M6126 + 242.50000ml of W3112 + 5.00000ml of MP83765 = 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	MP83770	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 240.00000ml of W3112 + 7.50000ml of MP83765 = 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>
1345	Hg 10.0 PPB STD	MP83771	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal
FROM 2.50000ml of M6126 + 237.50000ml of W3112 + 10.00000ml of MP83765 = 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	MP83772	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HGA)	Sarabjit Jaswal 12/27/2024
<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)	MP83773	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal 12/27/2024

~~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>
1358	CCV (Hg 5.0 PPB SOLUTION)	MP83774	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal 12/27/2024

~~A)~~

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>
1352	CCB (Hg 0.00 PPB SOLUTION)	MP83775	12/26/2024	12/27/2024	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>
887	AQUA REGIA FOR HG ON 7471A	MP83778	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG	Sarabjit Jaswal

A)

FROM 150.00000ml of M6121 + 50.00000ml of M6126 = Final Quantity: 200.000 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>
68	STANNOUS CHLORIDE SOLUTION	MP83779	12/26/2024	12/27/2024	Mohan Bera	None	METALS_PIPETTE_5 (HG)	Sarabjit Jaswal 12/27/2024
FROM 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



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



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

M4913-16

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

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	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
 MS

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

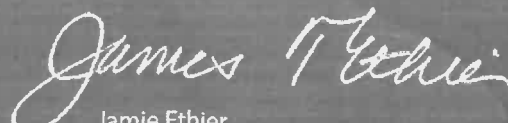
Retest Date: 2026-06-07

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)	$\leq 5 \text{ ppm}$	< 5 ppm
Sulfate (SO ₄)	$\leq 0.004 \%$	< 0.004 %
Barium (Ba)	Passes Test	Passes Test
ACS - Heavy Metals (as Pb)	$\leq 5 \text{ ppm}$	< 5 ppm
Iron (Fe)	$\leq 2 \text{ ppm}$	< 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	100
Cr	520	2000
Co	520	100
Cu	510	100
Fe	10000	100
Pb	1000	2000
Mg	6000	200
Mn	520	1200
Ni	530	100
K	9900	110
Se	1000	2000
Ag	250	200
Na	10000	50
Tl	1000	2000
V	500	210
Zn	1000	100
		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

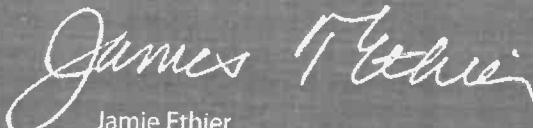
Product Information (not specifications):

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 : ME28Y6

Start Digest Date: 12/26/2024 Time : 09:45 Temp : 95 °C

Matrix : SOIL

End Digest Date: 12/26/2024 Time : 10:15 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 : NA

Dig Technician Signature: MB

pH Strip ID : NA

Supervisor Signature: 12

Hood ID : #1

Temp : 1. 95°C 2. N/A

Block ID: 1. HG HOT BLOCK#2 2. N/A

Standardized Name	MLS USED	STD REF. # FROM LOG
ICV	100mL	MP83772
CCV	100mL	MP83774
Matrix Spike	1.0mL	MP83765
N/A	N/A	N/A
N/A	N/A	N/A

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP83778
KMnO4 (5%)	15.0mL	MP83692
Hydroxylamine HCL (12%)	6.0mL	MP83694
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP83766
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP83767
2.5 ppb	S2.5	100mL	MP83768
5.0 ppb	S5.0	100mL	MP83769
7.5 ppb	S7.5	100mL	MP83770
10.0 ppb	S10.0	100mL	MP83771
ICV	ICV	100mL	MP83772
ICB	ICB	100mL	MP83773
CCV	CCV	100mL	MP83774
CCB	CCB	100mL	MP83775
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
12/26/24 @ 11:05	MB - Dig Lab	MB - Metal Lab
	Preparation Group	Analysis Group

Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	pH	Comment	Prep Pos
P5266-01	ME28Y6	0.51	100	NA	N/A	2-1
P5266-02	ME28Y7	0.60	100	NA	N/A	2
P5266-03	ME28Y8	0.54	100	NA	N/A	3
P5266-04	ME28Y9	0.53	100	NA	N/A	4
P5266-05	ME28Z0	0.57	100	NA	N/A	5
P5266-06	ME28Z1	0.55	100	NA	N/A	6
P5266-07	ME28Z2	0.60	100	NA	N/A	7
P5266-08	ME28Z3	0.50	100	NA	N/A	8
P5266-09	ME28Z4	0.57	100	NA	N/A	9
P5266-10	ME28Z5	0.52	100	NA	N/A	10
P5266-11	ME28Z6	0.52	100	NA	N/A	11
P5266-12	ME28Z7	0.51	100	NA	N/A	12
P5266-13	ME28Z8	0.55	100	NA	N/A	13
P5266-14	ME28Z9	0.51	100	NA	N/A	14
P5266-15	ME2900	0.60	100	NA	N/A	15
P5266-16	ME2901	0.55	100	NA	N/A	16
P5266-17	ME2902	0.50	100	NA	N/A	17
P5266-18	ME2903	0.53	100	NA	N/A	18
P5266-19	ME28Y9D	0.58	100	NA	N/A	19
P5266-20	ME28Y9S	0.55	100	NA	MP83765	20
PB165865BL	PBS865	0.50	100	NA	N/A	21

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134089

Review By	Sarabjit Jaswal	Review On	12/27/2024 8:36:26 PM
Supervise By	Mohan Bera	Supervise On	12/27/2024 8:38:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83766,MP83767,MP83768,MP83769,MP83770,MP83771		
ICV Standard	MP83772		
CCV Standard	MP83774		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83773,MP83775,MP83779		

Sr#	SampleId	ClientID	QcType	Date	Comment	Operator	Status
1	S0	S0	CAL1	12/26/24 15:10		Mohan	OK
2	S0.2	S01	CAL2	12/26/24 15:12		Mohan	OK
3	S2.5	S02	CAL3	12/26/24 15:14		Mohan	OK
4	S5	S03	CAL4	12/26/24 15:16		Mohan	OK
5	S7.5	S04	CAL5	12/26/24 15:21		Mohan	OK
6	S10	S05	CAL6	12/26/24 15:26		Mohan	OK
7	ICV032	ICV032	ICV	12/26/24 15:29		Mohan	OK
8	ICB032	ICB032	ICB	12/26/24 15:31		Mohan	OK
9	CCV070	CCV070	CCV	12/26/24 15:34		Mohan	OK
10	CCB070	CCB070	CCB	12/26/24 15:36		Mohan	OK
11	PB165864BL	PBS864	MB	12/26/24 15:38		Mohan	OK
12	P5259-01	ME28W7	SAM	12/26/24 15:41		Mohan	OK
13	P5259-02	ME28W8	SAM	12/26/24 15:43		Mohan	OK
14	P5259-03	ME28W9	SAM	12/26/24 15:45		Mohan	OK
15	P5259-04	ME28X0	SAM	12/26/24 15:47		Mohan	OK
16	P5259-05	ME28X0D	DUP	12/26/24 15:50		Mohan	OK
17	P5259-06	ME28X0S	MS	12/26/24 15:52		Mohan	OK
18	P5259-07	ME28X1	SAM	12/26/24 15:54		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134089

Review By	Sarabjit Jaswal	Review On	12/27/2024 8:36:26 PM
Supervise By	Mohan Bera	Supervise On	12/27/2024 8:38:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83766,MP83767,MP83768,MP83769,MP83770,MP83771		
ICV Standard	MP83772		
CCV Standard	MP83774		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83773,MP83775,MP83779		

19	P5259-08	ME28X2	SAM	12/26/24 15:56		Mohan	OK
20	P5259-09	ME28X3	SAM	12/26/24 15:59		Mohan	OK
21	P5259-10	ME28X4	SAM	12/26/24 16:01		Mohan	OK
22	P5259-11	ME28X5	SAM	12/26/24 16:03		Mohan	OK
23	P5259-12	ME28X6	SAM	12/26/24 16:05		Mohan	OK
24	P5259-13	ME28X7	SAM	12/26/24 16:08		Mohan	OK
25	P5259-14	ME28X8	SAM	12/26/24 16:10		Mohan	OK
26	P5259-15	ME28X9	SAM	12/26/24 16:12		Mohan	OK
27	P5259-16	ME28Y0	SAM	12/26/24 16:14		Mohan	OK
28	P5259-17	ME28Y1	SAM	12/26/24 16:17		Mohan	OK
29	P5259-18	ME28Y2	SAM	12/26/24 16:19		Mohan	OK
30	P5259-19	ME28Y3	SAM	12/26/24 16:21		Mohan	OK
31	CCV071	CCV071	CCV	12/26/24 16:24		Mohan	OK
32	CCB071	CCB071	CCB	12/26/24 16:26		Mohan	OK
33	P5259-20	ME28Y4	SAM	12/26/24 16:28		Mohan	OK
34	P5259-21	ME28Y5	SAM	12/26/24 16:31		Mohan	OK
35	PB165865BL	PBS865	MB	12/26/24 16:36		Mohan	OK
36	P5266-01	ME28Y6	SAM	12/26/24 16:38		Mohan	OK
37	P5266-02	ME28Y7	SAM	12/26/24 16:40		Mohan	OK
38	P5266-03	ME28Y8	SAM	12/26/24 16:43		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134089

Review By	Sarabjit Jaswal	Review On	12/27/2024 8:36:26 PM
Supervise By	Mohan Bera	Supervise On	12/27/2024 8:38:20 PM
STD. NAME	STD REF.#		
ICAL Standard	MP83766,MP83767,MP83768,MP83769,MP83770,MP83771		
ICV Standard	MP83772		
CCV Standard	MP83774		
ICSA Standard			
CRI Standard			
LCS Standard			
Chk Standard	MP83773,MP83775,MP83779		

39	P5266-04	ME28Y9	SAM	12/26/24 16:45		Mohan	OK
40	P5266-05	ME28Z0	SAM	12/26/24 16:47		Mohan	OK
41	P5266-06	ME28Z1	SAM	12/26/24 16:50		Mohan	OK
42	P5266-07	ME28Z2	SAM	12/26/24 16:52		Mohan	OK
43	P5266-08	ME28Z3	SAM	12/26/24 16:54		Mohan	OK
44	P5266-09	ME28Z4	SAM	12/26/24 16:56		Mohan	OK
45	P5266-10	ME28Z5	SAM	12/26/24 16:59		Mohan	OK
46	P5266-11	ME28Z6	SAM	12/26/24 17:01		Mohan	OK
47	P5266-12	ME28Z7	SAM	12/26/24 17:03		Mohan	OK
48	P5266-13	ME28Z8	SAM	12/26/24 17:05		Mohan	OK
49	P5266-14	ME28Z9	SAM	12/26/24 17:08		Mohan	OK
50	P5266-15	ME2900	SAM	12/26/24 17:10		Mohan	OK
51	P5266-16	ME2901	SAM	12/26/24 17:12		Mohan	OK
52	P5266-17	ME2902	SAM	12/26/24 17:14		Mohan	OK
53	CCV072	CCV072	CCV	12/26/24 17:17		Mohan	OK
54	CCB072	CCB072	CCB	12/26/24 17:19		Mohan	OK
55	P5266-18	ME2903	SAM	12/26/24 17:21		Mohan	OK
56	P5266-19	ME28Y9D	DUP	12/26/24 17:24		Mohan	OK
57	P5266-20	ME28Y9S	MS	12/26/24 17:26		Mohan	OK
58	CCV073	CCV073	CCV	12/26/24 17:28		Mohan	OK

Instrument ID: CV1

Daily Analysis Runlog For Sequence/QC Batch ID # LB134089

Review By	Sarabjit Jaswal	Review On	12/27/2024 8:36:26 PM				
Supervise By	Mohan Bera	Supervise On	12/27/2024 8:38:20 PM				

STD. NAME	STD REF.#
ICAL Standard	MP83766,MP83767,MP83768,MP83769,MP83770,MP83771
ICV Standard	MP83772
CCV Standard	MP83774
ICSA Standard	
CRI Standard	
LCS Standard	
Chk Standard	MP83773,MP83775,MP83779

59	CCB073	CCB073	CCB	12/26/24 17:30		Mohan	OK
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