FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

МВНСН8	

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

Lab Code: ACE

Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL

Lab Sample ID: P4498-15

% Solids: 79.9

Date Received: 10/23/2024

Analytical Method: Hg

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

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.077	J	10/30/2024	2122

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

МВНСН9		

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

Matrix: SOIL Lab Sample ID: P4498-16

% Solids: 86.6 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.076	J	10/30/2024	2124

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

мвнсј0		

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

Matrix: SOIL Lab Sample ID: P4498-17

% Solids: 80.9 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.087	J	10/30/2024	2127

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

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE

Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL

Lab Sample ID: P4498-18

% Solids: 77.2

Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.087	J	10/30/2024	2129

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

FORM 1 - IN

MBHCJ2

INORGANIC ANALYSIS DATA SHEET

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

Case No.: 51698 MA No.: SDG No.: MBHCH8 Lab Code: ACE

Lab Sample ID: P4498-19 Matrix: SOIL

% Solids: 75.7 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.10	J	10/30/2024	2131

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

МВНСЈ3

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

Matrix: SOIL Lab Sample ID: P4498-20

% Solids: 86.9 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.080	J	10/30/2024	2134

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

МВНСЈ5		

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

Matrix: SOIL Lab Sample ID: P4498-21

% Solids: 84.3 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.13		10/30/2024	2136

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

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

МВНСЈ6		

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

Lab Code: ACE

Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL

Lab Sample ID: P4498-22

% Solids: 80.7

Date Received: 10/23/2024

Analytical Method: Hg

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

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.074	J	10/30/2024	2138

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDD1		

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

Matrix: SOIL Lab Sample ID: P4498-01

% Solids: 82.7 Date Received: 10/23/2024

Analytical Method: Hq

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.031	J	10/30/2024	2046

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

FORM 1 - IN

MBHDD2

INORGANIC ANALYSIS DATA SHEET

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

Lab Code: ACE Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL Lab Sample ID: P4498-02

% Solids: 83.3 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.044	J	10/30/2024	2048

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDD8

Matrix: SOIL Lab Sample ID: P4498-03

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

% Solids: 94.7 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.020	J	10/30/2024	2050

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

FORM 1 - IN

MBHDD9

INORGANIC ANALYSIS DATA SHEET

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

Case No.: 51698 MA No.: SDG No.: MBHCH8 Lab Code: ACE

Matrix: SOIL Lab Sample ID: P4498-04

% Solids: 90 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.037	J	10/30/2024	2053

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

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

MBHDE0	

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

Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL

Lab Sample ID: P4498-05

% Solids: 85.9

Date Received: 10/23/2024

Analytical Method: Hg

Lab Code: ACE

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

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.081	J	10/30/2024	2055

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE1		

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

Matrix: SOIL Lab Sample ID: P4498-06

% Solids: 76.4 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.049	J	10/30/2024	2057

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

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

MBHDE2		

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

Case No.: 51698 MA No.: SDG No.: MBHCH8 Lab Code: ACE

Matrix: SOIL Lab Sample ID: P4498-07

% Solids: 78.3 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.079	J	10/30/2024	2059

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE8		

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

Matrix: SOIL Lab Sample ID: P4498-08

% Solids: 86.8 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11		10/30/2024	2102

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDE9

Matrix: SOIL Lab Sample ID: P4498-09

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

% Solids: 83.5 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.12		10/30/2024	2104

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

FORM 1 - IN INORGANIC ANALYSIS DATA SHEET

MBHDF0		

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

Lab Code: ACE

Case No.: 51698 MA No.: SDG No.: MBHCH8

Matrix: SOIL

Lab Sample ID: P4498-10

% Solids: 86.7

Date Received: 10/23/2024

Analytical Method: Hg

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

mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.11		10/30/2024	2106

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MDIIDE1		_
MBHDF1		

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

Matrix: SOIL Lab Sample ID: P4498-13

% Solids: 85.6 Date Received: 10/23/2024

Analytical Method: Hg

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

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.081	J	10/30/2024	2113

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

FORM 1 - IN
INORGANIC ANALYSIS DATA SHEET

MBHDF2		

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

Matrix: SOIL Lab Sample ID: P4498-14

% Solids: 84 Date Received: 10/23/2024

Analytical Method: Hg

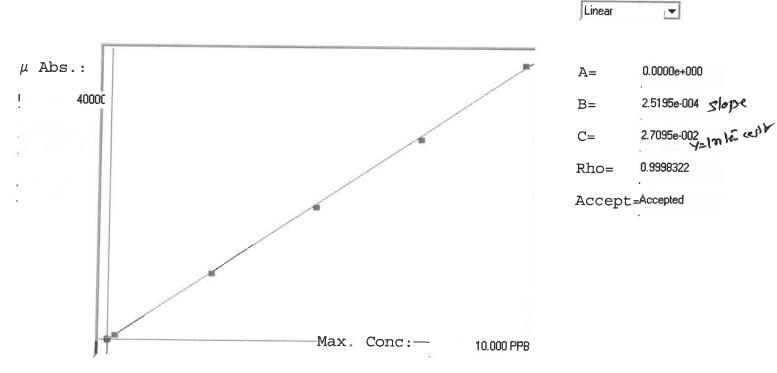
Concentration Units $\overline{(\mu g/L, mg/L, mg/kg dry weight, \mu g, or \mu g/cm^2)}$: mg/kg

CAS No.	Analyte	Concentration	Q	Date Analyzed	Time Analyzed
7439-97-6	Mercury	0.093	J	10/30/2024	2120

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

LB133224

SFAMO1.1
/WSTRUMENT ID! (V1



Std ID	Conc.	Calc.	Dev.	Mean	SD or %RSD	Rep 1	Rep 2	Rep 3	Rep 4	Rep 5	0/10
0.00	0.000	0.032	0.032	20	0.000	20			T TOP	1 top o	110
0.05	0.050				0.000	442	0				17
0.20	0.200	0.233	0.033	816	0.0 %	816					, T
2.50	2.500	2.497	-0.003	9802	0.0 %	9802					O
5.00	5.000	4.931	-0.069	19463	0.0 %	19463				-	1
7.50	7.500	7.403	-0.097	29274	0.0 %	29274					-1
10.0	10.000	10.105	0.105	40000	0.0 %	40000					i j

LB133224 INSTRUMENT ID: CV1

				INSTRUIVENT	ID. CVI			
Sample ID	Extended ID	μ Abs.	Conc.	Stnd Conc	Method	Units	Date	Type
0	S0	20	_	0	SFAM01.1	PPB	10/30/2024 18:18	Std
		816			SFAM01.1			
	S01						10/30/2024 18:21	
2.5	S02	9802	-	2.5	SFAM01.1	PPB	10/30/2024 18:23	Std
5	S03	19463	-	5	SFAM01.1	PPB	10/30/2024 18:25	Std
7.5	S04	29274	_	7.5	SFAM01.1	PPB	10/30/2024 18:31	Std
	S05	40000			SFAM01.1	PPB	10/30/2024 18:33	
				10				
ICV060	ICV060	16905	4.2863 -		SFAM01.1	PPB	10/30/2024 18:39	SMPL
ICB060	ICB060	-217	-0.0276 -		SFAM01.1	PPB	10/30/2024 18:41	SMPL
CCV098	CCV098	19593	4.9635 -		SFAM01.1	PPB	10/30/2024 18:44	SMPL
CCB098	CCB098	-220	-0.0283 -		SFAM01.1	PPB	10/30/2024 18:46	
							• •	
PB164549BL		59	0.042 -		SFAM01.1	PPB	10/30/2024 18:48	
P4499-01	MBHCJ7	1319	0.3594 -		SFAM01.1	PPB	10/30/2024 18:50	SMPL
P4499-02	MBHCJ8	392	0.1259 -		SFAM01.1	PPB	10/30/2024 18:53	SMPL
P4499-03	MBHCJ9	1497	0.4043 -		SFAM01.1	PPB	10/30/2024 18:55	
			0.527 -		SFAM01.1		10/30/2024 18:57	
P4499-04	МВНСКО	1984						
P4499-05	MBHCK1	880	0.2488 -		SFAM01.1	PPB	10/30/2024 18:59	SMPL
P4499-06	MBHCK2	672	0.1964 -		SFAM01.1	PPB	10/30/2024 19:02	SMPL
P4499-07	MBHCK8	784	0.2246 -		SFAM01.1	PPB	10/30/2024 19:04	SMPL
P4499-08	МВНСК9	2168	0.5733 -		SFAM01.1		10/30/2024 19:06	
							• •	
P4499-09	MBHCL0	2392	0.6298 -		SFAM01.1	PPB	10/30/2024 19:08	
P4499-10	MBHCL1	2816	0.7366 -		SFAM01.1	PPB	10/30/2024 19:11	SMPL
P4499-11	MBHCL2	1387	0.3765 -		SFAM01.1	PPB	10/30/2024 19:13	SMPL
P4499-12	MBHCY0	574	0.1717 -		SFAM01.1	PPB	10/30/2024 19:15	SMPI
							• •	
P4499-13	MBHCL8	358	0.1173 -		SFAM01.1	PPB	10/30/2024 19:18	
P4499-14	MBHCL9	598	0.1778 -		SFAM01.1	PPB	10/30/2024 19:20	SMPL
P4499-15	MBHCM0	1191	0.3272 -		SFAM01.1	PPB	10/30/2024 19:22	SMPL
P4499-16	MBHCM1	619	0.1831 -		SFAM01.1	PPB	10/30/2024 19:24	SMPL
P4499-17	MBHCM2	801	0.2289 -		SFAM01.1	PPB	10/30/2024 19:27	
P4499-18	MBHCM8	714	0.207 -		SFAM01.1	PPB	10/30/2024 19:29	
P4499-19	MBHCM9	635	0.1871 -		SFAM01.1	PPB	10/30/2024 19:31	SMPL
CCV099	CCV099	20240	5.1265 -		SFAM01.1	PPB	10/30/2024 19:33	SMPL
CCB099	CCB099	-79	0.0072 -		SFAM01.1	PPB	10/30/2024 19:36	SMPI
P4499-20	MBHCN0	1029	0.2864 -		SFAM01.1		10/30/2024 19:38	
P4499-21	MBHCN0D	814	0.2322 -		SFAM01.1		10/30/2024 19:40	
P4499-22	MBHCN0S	10838	2.7577 -		SFAM01.1	PPB	10/30/2024 19:42	SMPL
PB164550BL	PBS550	-87	0.0052 -		SFAM01.1	PPB	10/30/2024 19:45	SMPL
P4497-01	MBHCY5	1444	0.3909 -		SFAM01.1	PPR	10/30/2024 19:47	SMPI
							• •	
P4497-02	MBHCZ5	937	0.2632 -		SFAM01.1		10/30/2024 19:49	
P4497-03	MBHDA3	858	0.2433 -		SFAM01.1	PPB	10/30/2024 19:52	SMPL
P4497-04	MBHDA4	1383	0.3755 -		SFAM01.1	PPB	10/30/2024 19:54	SMPL
P4497-05	MBHDA5	495	0.1518 -		SFAM01.1	PPB	10/30/2024 19:56	SMPL
P4497-06	MBHDA6	733	0.2118 -		SFAM01.1	PPB	10/30/2024 19:58	
P4497-07	MBHDA7	928	0.2609 -		SFAM01.1		10/30/2024 20:01	
P4497-08	MBHDB3	648	0.1904 -		SFAM01.1	PPB	10/30/2024 20:03	SMPL
P4497-09	MBHDB4	836	0.2377 -		SFAM01.1	PPB	10/30/2024 20:05	SMPL
P4497-10	MBHDB5	815	0.2324 -		SFAM01.1		10/30/2024 20:07	
1 1137 10		010	0.2324		J. ,VIUI.I		10,00,2027 20.07	31411 F

LB133224 INSTRUMENT ID : CV1

				2.11.10.011	
P4497-11	MBHDB6	1428	0.3869 -	SFAM01.1 PPB	10/30/2024 20:10 SMPL
P4497-12	MBHDB7	1263	0.3453 -	SFAM01.1 PPB	
P4497-13	MBHDB8	874	0.2473 -	SFAM01.1 PPB	10/30/2024 20:14 SMPL
P4497-14	MBHDB9	1083	0.3 -	SFAM01.1 PPB	
P4497-15	MBHDCO	973	0.2722 -	SFAM01.1 PPB	10/30/2024 20:19 SMPL
P4497-16	MBHDC1	602	0.1788 -	SFAM01.1 PPB	10/30/2024 20:21 SMPL
CCV001	CCV001	20489	5.1893 -	SFAM01.1 PPB	10/30/2024 20:23 SMPL
CCB001	CCB001	-71	0.0092 -	SFAM01.1 PPB	10/30/2024 20:25 SMPL
P4497-17	MBHDC2	1344	0.3657 -	SFAM01.1 PPB	10/30/2024 20:28 SMPL
P4497-18	MBHDC8	1249	0.3418 -	SFAM01.1 PPB	10/30/2024 20:30 SMPL
P4497-19	MBHDC9	1173	0.3226 -	SFAM01.1 PPB	10/30/2024 20:32 SMPL
P4497-20	MBHDD0	1848	0.4927 -	SFAM01.1 PPB	10/30/2024 20:35 SMPL
P4497-21	MBHDD0D	1736	0.4645 -	SFAM01.1 PPB	10/30/2024 20:37 SMPL
P4497-22	MBHDDOS	14491	3.6781 -	SFAM01.1 PPB	10/30/2024 20:41 SMPL
PB164551BL	PBS551	-80	0.0069 -	SFAM01.1 PPB	10/30/2024 20:43 SMPL
P4498-01	MBHDD1	483	0.1488 -	SFAM01.1 PPB	10/30/2024 20:46 SMPL
P4498-02	MBHDD2	720	0.2085 -	SFAM01.1 PPB	10/30/2024 20:48 SMPL
P4498-03	MBHDD8	284	0.0986 -	SFAM01.1 PPB	10/30/2024 20:50 SMPL
P4498-04	MBHDD9	602	0.1788 -	SFAM01.1 PPB	10/30/2024 20:53 SMPL
P4498-05	MBHDE0	1503	0.4058 -	SFAM01.1 PPB	10/30/2024 20:55 SMPL
P4498-06	MBHDE1	750	0.2161 -	SFAM01.1 PPB	10/30/2024 20:57 SMPL
P4498-07	MBHDE2	1287	0.3514 -	SFAM01.1 PPB	10/30/2024 20:59 SMPL
P4498-08	MBHDE8	1819	0.4854 -	SFAM01.1 PPB	10/30/2024 21:02 SMPL
P4498-09	MBHDE9	2218	0.5859 -	SFAM01.1 PPB	10/30/2024 21:04 SMPL
P4498-10	MBHDF0	2010	0.5335 -	SFAM01.1 PPB	10/30/2024 21:06 SMPL
P4498-11	MBHDFOD	1957	0.5202 -	SFAM01.1 PPB	10/30/2024 21:08 SMPL
P4498-12	MBHDFOS	13305	3.3793 -	SFAM01.1 PPB	10/30/2024 21:11 SMPL
P4498-13	MBHDF1	1271	0.3473 -	SFAM01.1 PPB	10/30/2024 21:13 SMPL
CCV002	CCV002	20308	5.1437 -	SFAM01.1 PPB	10/30/2024 21:15 SMPL
CCB002	CCB002	-74	0.0085 -	SFAM01.1 PPB	10/30/2024 21:18 SMPL
P4498-14	MBHDF2	1669	0.4476 -	SFAM01.1 PPB	10/30/2024 21:20 SMPL
P4498-15	МВНСН8	1181	0.3246 -	SFAM01.1 PPB	10/30/2024 21:22 SMPL
P4498-16	МВНСН9	1438	0.3894 -	SFAM01.1 PPB	10/30/2024 21:24 SMPL
	MBHCJ0	1485	0.4012 -	SFAM01.1 PPB	10/30/2024 21:27 SMPL
	MBHCJ1	1222	0.335 -	SFAM01.1 PPB	10/30/2024 21:29 SMPL
	MBHCJ2	1517	0.4093 -	SFAM01.1 PPB	10/30/2024 21:31 SMPL
	MBHCJ3		0.3476 -	SFAM01.1 PPB	10/30/2024 21:34 SMPL
	MBHCJ5	2020	0.536 -	SFAM01.1 PPB	10/30/2024 21:36 SMPL
	MBHCJ6		0.3171 -	SFAM01.1 PPB	10/30/2024 21:38 SMPL
	CCV003	20286	5.1381 -	SFAM01.1 PPB	10/30/2024 21:40 SMPL
CCB003	CCB003	-90 (0.0044 -	SFAM01.1 PPB	10/30/2024 21:43 SMPL



8900, Fax: 908 789 8922

Prep Standard - Chemical Standard Summary

Order ID :	P4498
Test:	Mercury
Prepbatch ID :	PB164551,

Sequence ID/Qc Batch ID: LB133224,	
Standard ID: MP82652,MP82654,MP82961,MP82962,MP82963,MP82964,MP82965,MP82966,MP82967,MP82968,MP82969,MP82970,MP82971,MP82974,MP82975,	
Standard ID : MP82652,MP82961,MP82962,MP82963,MP82964,MP82965,MP82966,MP82967,MP82968,MP82969,MP829	



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Metals STANDARD PREPARATION LOG

Recipe ID	NAME.	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
65	POTASSIUM PERMANGANATE SOLUTION 5 %	MP82652	09/30/2024	04/03/2025		METALS_SCA LE_3 (M SC-3)		10/04/2024

	ecipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
	67	SODIUM CHLORIDE - HYDROXYL- CHLORIDE	MP82654	09/30/2024	04/03/2025		METALS_SCA LE_3 (M SC-3)		10/04/2024
<u> </u>		SOLUTION					LL_0 (W 00-0)		10/04/202

FROM

2000.00000ml of W3112 + 240.00000gram of M4371 + 240.00000gram of M5501 = Final Quantity: 2000.000 ml



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Metals STANDARD PREPARATION LOG

Recipe ID	NAME_	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
871	MERCURY INTERMEDIATE B 250PPB WORKING STD.	MP82961	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	
							A)	

FROM 1.00000ml of M6104 + 2.50000ml of M5062 + 96.50000ml of W3112 = Final Quantity: 100.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1340	Hg 0.00 PPB STD	MP82962	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	,

FROM 2.50000ml of M6104 + 247.50000ml of W3112 = Final Quantity: 250.000 ml





Metals STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1341	Hg 0.2 PPB STD	MP82963	10/30/2024	10/31/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	

FROM 2.50000ml of M6104 + 247.30000ml of W3112 + 0.20000ml of MP82961 = Final Quantity: 250.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1342	Hg 2.5 PPB STD	MP82964	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	•

FROM 2.50000ml of M6104 + 245.0000ml of W3112 + 2.50000ml of MP82961 = Final Quantity: 250.000 ml





Metals STANDARD PREPARATION LOG

ID N	NAME.	<u>NO.</u>	Prep Date	<u>Date</u>	<u>Prepared</u> <u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1343 H	Hg 5.0 PPB STD	MP82965	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	

FROM 2.50000ml of M6104 + 242.50000ml of W3112 + 5.00000ml of MP82961 = Final Quantity: 250.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1344	Hg 7.5 PPB STD	MP82966	10/30/2024	10/31/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	,

FROM 2.50000ml of M6104 + 240.00000ml of W3112 + 7.50000ml of MP82961 = Final Quantity: 250.000 ml



 $284 \; Sheffield \; Street, \; Mountainside, \; New \; Jersey \; 07092, \; Phone \; : \; 908 \; 789 \; 8900, \\$

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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1345	Hg 10.0 PPB STD	MP82967	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	
							A)	

FROM 2.50000ml of M6104 + 237.50000ml of W3112 + 10.00000ml of MP82961 = Final Quantity: 250.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1346	Hg ICV SOLUTION	MP82968	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	•

FROM 2.50000ml of M5953 + 2.50000ml of M6104 + 245.00000ml of W3112 = Final Quantity: 250.000 ml



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Metals STANDARD PREPARATION LOG

Recipe ID	NAME	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
1351	ICB (Hg 0.00 PPB SOLUTION)	MP82969	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	
							A)	

FROM 2.50000ml of M6104 + 247.50000ml of W3112 = Final Quantity: 250.000 ml

Recipe				Expiration	Prepared			Supervised By
<u>ID</u>	<u>NAME</u>	<u>NO.</u>	Prep Date	<u>Date</u>	<u>By</u>	<u>ScaleID</u>	<u>PipetteID</u>	Sarabjit Jaswal
1358	CCV (Hg 5.0 PPB SOLUTION)	MP82970	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP	
							ETTE_5 (HG	10/31/2024

FROM 485.00000ml of W3112 + 5.00000ml of M6104 + 10.00000ml of MP82961 = Final Quantity: 500.000 ml



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Metals STANDARD PREPARATION LOG

Recipe ID	<u>NAME</u>	NO.	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipettelD</u>	Supervised By Sarabjit Jaswal
1352	CCB (Hg 0.00 PPB SOLUTION)	MP82971	10/30/2024	10/31/2024	Mohan Bera		METALS_PIP ETTE_5 (HG	
			E. 10				A)	

FROM 495.00000ml of W3112 + 5.00000ml of M6104 = Final Quantity: 500.000 ml

Recipe ID	NAME	<u>NO.</u>	Prep Date	Expiration Date	Prepared By	<u>ScaleID</u>	<u>PipetteID</u>	Supervised By Sarabjit Jaswal
887	AQUA REGIA FOR HG ON 7471A	MP82974	10/30/2024	10/31/2024	Mohan Bera	None	METALS_PIP ETTE_5 (HG	•

FROM 150.00000ml of M6095 + 50.00000ml of M6104 = Final Quantity: 200.000 ml



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Metals STANDARD PREPARATION LOG

Recipe ID 68		NO. MP82975	Prep Date 10/30/2024	Expiration Date 10/31/2024		ScaleID METALS_SCA	Supervised By Sarabjit Jaswal
	SOLUTION					LE_3 (M SC-3)	10/31/2024
FROM	450.0000ml of W3112 + 50.00000gr	ram of M588	32 + 50.00000	oml of M6095 =	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 HCI 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-3624-05 / Sodium Chloride, Crystal	0000281938	07/06/2026	07/24/2023 / mohan	04/14/2023 / mohan	M5501
	(cs/4x2.5kg)					
Supplier	(cs/4x2.5kg) ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date /	Chemtech Lot #
Supplier Seidler Chemical	<u> </u>	Lot # 232820		-		
	ItemCode / ItemName BA-3980-01 / Stannous		Date	Opened By 04/30/2024 /	Received By 04/25/2024 /	Lot #



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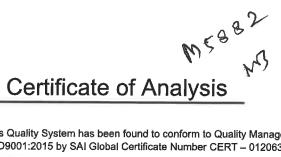
CHEMICAL RECEIPT LOG BOOK

Supplier	ItemCode / ItemName	Lot #	Expiration Date	Date Opened / Opened By	Received Date / Received By	Chemtech Lot #
Seidler Chemical	BA-9530-33 / Hydrochloric Acid, Instra-Analyzed (cs/6x2.5L)		03/17/2029	10/26/2024 / Janvi	10/21/2024 / Janvi	M6095

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	04/30/2025	10/30/2024 / Eman	09/29/2024 / Janvi	M6104

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 / Iwona	W3112





1 Reagent Lane Fair Lawn, NJ 07410 201,796,7100 tel

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 201,796,1329 fax

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, DIHYDR	ATE CERTIFIED ACS (Suitable for Me	rcury 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 sta processing aids, or any other mater	arting raw material ingredients, or used rial that might migrate to the finished pr	in processing, including lubricants, oduct.

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

M4371

Hydroxylamine Hydrochloride, Crystal BAKER ANALYZED® A.C.S. Reagent

Suitable for Mercury Determination (hydroxylammonium chloride)

Rec - 06.07.12





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 (NH2OH·HCl) (by KMnO4 titrn)	>= 96.0 %	99.1
Clarity of Alcohol Solution	Passes Test	PT
Residue after Ignition	<= 0.050 %	0.017
Titrable Free Acid (meq/g)	<= 0.25	0.19
Ammonium (NH4)	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

Jamie Ethier
Vice President Global Quality



M4913- 16



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



Certificate of Analysis

300 Technology Drive Christiansburg, VA 24073 USA inorganicventures.com M5062 M5063

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

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) HCI

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:

 $10.001 \pm 0.053 \,\mu g/mL$

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
Ha	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:

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

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

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

the variance.

 $\mathbf{w_i} = (1/u_{chari})^2 / (\Sigma (1/(u_{chari})^2)$

CRM/RM Expanded Uncertainty (±) = $U_{CRM/RM} = k (u_{char}^2 + u_{bb}^2 + u_{its}^2 + u_{ts}^2)^{1/2}$

k = coverage factor = 2

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

u_{bb} = bottle to bottle homogeneity standard uncertainty

ults = long term stability standard uncertainty (storage)

uts = 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})

Xa = mean of Assay Method A with

uchar a = the standard uncertainty of characterization Method A

CRM/RM Expanded Uncertainty (±) = U_{CRM/RM} = k (u²char a + u²bb + u²lts + u²ts) 1/2

k = coverage factor = 2

u_{char a} = the errors from characterization

ubb = bottle to bottle homogeneity standard uncertainty

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

uts = 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
0
   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
                                   M Pb <
                    Hq <
                                              0.000201 M Tb <
                                                               0.000201
M Bi <
          0.000201 M
                    Ho <
                            0.000201 M Pd <
                                              0.000403 M
                                                        Te <
                                                               0.002216
0
  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
                                              0.000201 O TI <
M
  Ce <
          0.000201 O K
                            0.000020 M
                                      Rb <
                                                               0.016508
  Co <
M
          0.000201 M La <
                            0.000201 M
                                      Re <
                                              0.000201 M Tm <
                                                               0.000201
  Cr <
0
          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 $20^{\circ} \pm 4^{\circ}$ 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

Mya Truong

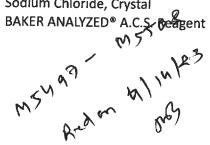
Certificate Approved By:

Michael Booth Director, Quality Control Michael 2 Booth

Certifying Officer:

Paul Gaines Chairman / Senior Technical Director Paul R Laines

Sodium Chloride, Crystal







Material No.: 3624-01

Batch No.: 0000281938

Manufactured Date: 2021-06-07

Retest Date: 2026-06-07

Revision No.: 2

Certificate of Analysis

Test	Specification	Result
Assay (NaCl) (by Ag titrn)	≥ 99.0 %	100.0 %
pH of 5% Solution at 25°C	5.0 - 9.0	6.3
Insoluble Matter	≤ 0.005 %	0.003 %
lodide (I)	≤ 0.002 %	< 0.002 %
Bromide (Br)	≤ 0.01 %	< 0.01 %
Chlorate and Nitrate (as NO₃)	≤ 0.003 %	< 0.001 %
ACS - Phosphate (PO ₄)	≤ 5 ppm	< 5 ppm
Sulfate (SO ₄)	≤ 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)	≤ 0.002 %	< 0.001 %
Magnesium (Mg)	≤ 0.001 %	< 0.001 %
Potassium (K)	≤ 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





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)

These instructions are for advisory purposes only. If any apparent conflict exists between these instructions and the analytical protocol or your contract, disregard these instructions.

APPLICATION:

For use with the CLP SFAM01.0 SOW and revisions.

CAUTION:

Read instructions carefully before opening bottle(s) and proceeding with

the analyses.

Contains Metals in Dilute Acidic or Cyanide in Basic Aqueous Solutions HAZARDOUS MATERIAL

> Safety Data Sheets Available Upon Request

(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

> QUALITY ASSURANCE TECHNICAL SUPPORT LABORATORY **APTIM Federal Services, LLC** 2700 Chandler Avenue - Building C Las Vegas, NV 89120

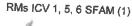
(C) ANALYSIS OF SAMPLES

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

Page 1 of 2









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) K₂Cr₂O₇ 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 K₃Fe(CN)₅, 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)
Al	2500	(after 50-fold dilution
Sb	1000	500
As	1000	200
Ba	520	200
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		1200
Ni	520	100
K	530	110
Se	9900	2000
Ag	1000	200
Na	250	50
TI	10000	2000
V	1000	210
Zn	500	100
	1000	200

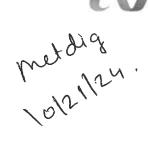
	ICV5-0415		ICV6-0400
Element	Concentration (µg/L) (after 100-fold dilution)	Analyte	Concentration (µg/L) (after 100-fold dilution
Hg	4.0	CN-	99

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





M6095.



Material No.: 9530-33 Batch No.: 24D1562005 Manufactured Date: 2024-03-18 Retest Date: 2029-03-17

Revision No.: 0

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 ppm
ACS - Specific Gravity at 60°/60°F	1.185 - 1.192	1.192
ACS - Bromide (Br)	≤ 0.005 %	< 0.005 %
ACS - Extractable Organic Substances	≤ 5 ppm	< 1 ppm
ACS - Free Chlorine (as Cl2)	≤ 0.5 ppm	< 0.5 ppm
Phosphate (PO ₄)	≤ 0.05 ppm	0.03 ppm
Sulfate (SO ₄)	≤ 0.5 ppm	< 0.3 ppm
Sulfite (SO ₃)	≤ 0.8 ppm	0.3 ppm
Ammonium (NH ₄)	≤ 3 ppm	< 1 ppm
Trace Impurities - Arsenic (As)	≤ 0.010 ppm	< 0.003 ppm
Trace Impurities - Aluminum (AI)	≤ 10.0 ppb	< 5.0 ppb
Arsenic and Antimony (as As)	≤ 5.0 ppb	< 3.0 ppb
Trace Impurities - Barium (Ba)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Beryllium (Be)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Bismuth (Bi)	≤ 10.0 ppb	< 10.0 ppb
Trace Impurities - Boron (B)	≤ 20.0 ppb	2.2 ppb
Trace Impurities - Cadmium (Cd)	≤ 1.0 ppb	< 1.0 ppb
Trace Impurities - Calcium (Ca)	≤ 50.0 ppb	31.0 ppb
Trace Impurities - Chromium (Cr)	≤ 1.0 ppb	0.5 ppb
Trace Impurities - Cobalt (Co)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Copper (Cu)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities - Gallium (Ga)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Germanium (Ge)	≤ 3.0 ppb	< 2.0 ppb
Trace Impurities - Gold (Au)	≤ 4.0 ppb	< 0.2 ppb
Heavy Metals (as Pb)	≤ 100 ppb	< 50 ppb
Trace Impurities - Iron (Fe)	≤ 15 ppb	3 ppb

>>> Continued on page 2 >>>





Material No.: 9530-33 Batch No.: 24D1562005

Test	Specification	Result
Trace Impurities – Lead (Pb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Lithium (Li)	≤ 1.0 ppb	< 0.1 ppb
Trace Impurities – Magnesium (Mg)	≤ 10.0 ppb	2.2 ppb
Trace Impurities – Manganese (Mn)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Mercury (Hg)	≤ 0.5 ppb	< 0.1 ppb
Trace Impurities – Molybdenum (Mo)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Nickel (Ni)	≤ 4.0 ppb	0.2 ppb
Trace Impurities - Niobium (Nb)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities - Potassium (K)	≤ 9.0 ppb	< 1.0 ppb
Trace Impurities - Selenium (Se), For Information Only		< 1.0 ppb
Trace Impurities - Silicon (Si)	≤ 100.0 ppb	< 10.0 ppb
Trace Impurities - Silver (Ag)	≤ 1.0 ppb	< 0.3 ppb
Trace Impurities - Sodium (Na)	≤ 100.0 ppb	2.0 ppb
Trace Impurities – Strontium (Sr)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Tantalum (Ta)	≤ 1.0 ppb	< 0.9 ppb
Trace Impurities – Thallium (Tl)	≤ 5.0 ppb	< 2.0 ppb
Trace Impurities - Tin (Sn)	≤ 5.0 ppb	< 0.4 ppb
Trace Impurities – Titanium (Ti)	≤ 1.0 ppb	0.2 ppb
Trace Impurities - Vanadium (V)	≤ 1.0 ppb	< 0.2 ppb
Trace Impurities – Zinc (Zn)	≤ 5.0 ppb	< 0.2 ppb
Trace Impurities - Zirconium (Zr)	≤ 1.0 ppb	< 0.1 ppb

Hydrochloric Acid, 36.5-38.0%

BAKER IÑŚTRA-ANALYZED® Reagent
For Trace Metal Analysis





Material No.: 9530-33 Batch No.: 24D1562005

Test Specification Result

For Laboratory, Research, or Manufacturing Use Product Information (not specifications): Appearance (clear, fuming liquid) Meets ACS Specifications Storage Condition: Store below 25 °C.

Country of Origin: USA

Packaging Site: Phillipsburg Mfg Ctr & DC



Receive date: Avantor



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

Certificate of Analysis

Assay (HNO₂) Appearance Passes Test Passes Test Passes Test Color (APHA) Residue after Ignition Chloride (Cl) Phosphate (PO₄) Sulfate (SO₄) Sulfate (SO₄) Trace Impurities - Barrium (Ba) Trace Impurities - Cadmium (Cd) Trace Impurities - Cadmium (Cd) Trace Impurities - Cobper (Cu) Trace Impurities - Cooper (Cu) Trace Impurities - Cooper (Cu) Trace Impurities - Cooper (Cu) Trace Impurities - Gold (Au) Frace Impurities - Germanium (Ge) Trace Impurities - Germanium (Ge) Trace Impurities - Gold (Au) Frace Impurities - Gold (Au) Frace Impurities - Gold (Mu) Frace Impurities - Cooper (Fe) Trace Impurities - Cooper (Cu) Trace Impurities - Lithium (Li) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Mn)	Test	Specification	Result
Appearance Color (APHA) ≤ 10 5 Residue after Ignition ≤ 2 ppm 1 ppm Chloride (Cl) ≤ 0.08 ppm < 0.03 ppm Phosphate (PO4) ≤ 0.10 ppm < 0.03 ppm Sulfate (SO4) ≤ 0.10 ppm < 0.2 ppm < 0.2 ppm Trace Impurities - Aluminum (Al) ≤ 40.0 ppb < 1.0 ppb Trace Impurities - Barium (Ba) ≤ 10.0 ppb < 1.0 ppb Trace Impurities - Birmuth (Bi) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Birmuth (Bi) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Cadmium (Cd) ≤ 50 ppb < 5.0 ppb Trace Impurities - Cadmium (Cd) ≤ 50 ppb < 1.0 ppb Trace Impurities - Calcium (Ca) ≤ 50.0 ppb < 1.0 ppb Trace Impurities - Calcium (Ca) ≤ 50.0 ppb < 1.0 ppb Trace Impurities - Cobalt (Co) ≤ 10.0 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 - Gold (Au) ≤ 20 ppb < 1.0 ppb Trace Impurities - Gold (Au) ≤ 20 ppb < 1.0 ppb Trace Impurities - Gold (Au) ≤ 20 ppb < 5 ppb Trace Impurities - Gold (Au) ≤ 20 ppb < 1.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 1.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 1.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 1.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Lead (Pb) ≤ 20.0 ppb < 10.0 ppb Trace Impurities - Magnesium (Mg) ≤ 20 ppb < 1.0 ppb	Assay (HNO ₃)	69.0 - 70.0 %	
Color (APHA) ≤ 10 5 Residue after Ignition ≤ 2 ppm 1 ppm Chloride (Cl) ≤ 0.08 ppm < 0.03 ppm	Appearance		
Residue after Ignition ≤ 2 ppm 1 ppm Chloride (Cl) ≤ 0.08 ppm < 0.03 ppm	Color (APHA)	≤ 10	
Chloride (Cl) ≤ 0.08 ppm < 0.03 ppm	Residue after Ignition	≤ 2 ppm	
Phosphate (PO4) ≤ 0.10 ppm < 0.03 ppm	Chloride (CI)		
Sulfate (SO ₄) ≤ 0.2 ppm < 0.2 ppm	Phosphate (PO ₄)	, ,	
Trace Impurities – Aluminum (AI) Arsenic and Antimony (as As) Soloppb Coloppb Trace Impurities – Barium (Ba) Trace Impurities – Beryllium (Be) Trace Impurities – Beryllium (Be) Trace Impurities – Bismuth (Bi) Coloppb Trace Impurities – Boron (B) Trace Impurities – Cadmium (Cd) Trace Impurities – Cadmium (Cd) Trace Impurities – Cadmium (Cr) Trace Impurities – Cobalt (Co) Trace Impurities – Lithium (Li) Trace Impurities – Manganesium (Mg) Trace Impurities – Manganese (Mn) Trace Impurities – Manganese (Mn) Trace Impurities – Manganese (Mn)	Sulfate (SO ₄)		• •
Arsenic and Antimony (as As) S 5.0 ppb C 2.0 ppb Trace Impurities - Barium (Ba) Trace Impurities - Barium (Be) Trace Impurities - Barium (Be) Trace Impurities - Barium (Be) S 10.0 ppb C 1.0 ppb Trace Impurities - Bismuth (Bi) S 20.0 ppb C 10.0 ppb Trace Impurities - Cadmium (Cd) Trace Impurities - Cadmium (Cd) Trace Impurities - Calcium (Ca) Trace Impurities - Calcium (Ca) Trace Impurities - Chromium (Cr) Trace Impurities - Cobalt (Co) Trace Impurities - Cobalt (Co) Trace Impurities - Copper (Cu) Trace Impurities - Callium (Ga) Trace Impurities - Gallium (Ga) Trace Impurities - Gold (Au) Trace Impurities - Cold (Au) Trace Impurities - Iron (Fe) Trace Impurities - Lead (Pb) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Mn) Trace Impurities - Manganese (Min) Trace Impurities - Manganese (Min) Trace Impurities - Manganese (Min)	Trace Impurities - Aluminum (AI)	≤ 40.0 ppb	• •
Trace Impurities – Barium (Ba)	Arsenic and Antimony (as As)	• •	**
Trace Impurities – Beryllium (Be) Frace Impurities – Bismuth (Bi) Frace Impurities – Bismuth (Bi) Frace Impurities – Boron (B) Frace Impurities – Cadmium (Cd) Frace Impurities – Cadmium (Cd) Frace Impurities – Calcium (Ca) Frace Impurities – Calcium (Ca) Frace Impurities – Calcium (Cr) Frace Impurities – Chromium (Cr) Frace Impurities – Cobalt (Co) Frace Impurities – Cobalt (Co) Frace Impurities – Copper (Cu) Frace Impurities – Copper (Cu) Frace Impurities – Gallium (Ga) Frace Impurities – Gallium (Ga) Frace Impurities – Gold (Au) Frace Impurities – Gold (Au) Frace Impurities – Copper (Ce) Frace Impurities – Iron (Fe) Frace Impurities – Lead (Pb) Frace Impurities – Lead (Pb) Frace Impurities – Lead (Pb) Frace Impurities – Lead (Mi) Frace Impurities – Lead (Mi) Frace Impurities – Magnesium (Mg) Frace Impurities – Magnese (Mn)	Trace Impurities - Barium (Ba)		• •
Trace Impurities – Bismuth (Bi)	Trace Impurities - Beryllium (Be)	••	• •
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	Trace Impurities - Bismuth (Bi)	≤ 20.0 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 - Magnesium (Mg) ≤ 20 ppb < 1.0 ppb	Trace Impurities - Boron (B)		
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 < 10.0 ppb Trace Impurities - Manganese (Mn) ≤ 10.0 ppb	Trace Impurities - Cadmium (Cd)		
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 - Calcium (Ca)	≤ 50.0 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 < 10 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 – Magnesium (Mg) ≤ 20 ppb < 1.0 ppb	Trace Impurities - Chromium (Cr)	≤ 30.0 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 - Magnesium (Mg) ≤ 20 ppb < 1 ppb	Trace Impurities - Cobalt (Co)	• •	• •
Trace Impurities - Gallium (Ga) ≤ 10.0 ppb < 1.0 ppb	Trace Impurities - Copper (Cu)	••	
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 – Gallium (Ga)	≤ 10.0 ppb	• •
Trace Impurities – Gold (Au) $\leq 20 \text{ ppb}$ $< 5 \text{ ppb}$ Heavy Metals (as Pb) $\leq 100 \text{ ppb}$ 100 ppb Trace Impurities – Iron (Fe) $\leq 40.0 \text{ ppb}$ $< 1.0 \text{ ppb}$ Trace Impurities – Lead (Pb) $\leq 20.0 \text{ ppb}$ $< 10.0 \text{ ppb}$ Trace Impurities – Lithium (Li) $\leq 10.0 \text{ ppb}$ $< 1.0 \text{ ppb}$ Trace Impurities – Magnesium (Mg) $\leq 20 \text{ ppb}$ $< 1 \text{ ppb}$ Trace Impurities – Manganese (Mn) $\leq 10.0 \text{ ppb}$ $< 1.0 \text{ ppb}$	Trace Impurities - Germanium (Ge)	≤ 20 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 - Gold (Au)	* *	
Trace Impurities – Iron (Fe) $\leq 40.0 \text{ ppb}$ $< 1.0 \text{ ppb}$ Trace Impurities – Lead (Pb) $\leq 20.0 \text{ ppb}$ $< 10.0 \text{ ppb}$ Trace Impurities – Lithium (Li) $\leq 10.0 \text{ ppb}$ $< 1.0 \text{ ppb}$ Trace Impurities – Magnesium (Mg) $\leq 20 \text{ ppb}$ $< 1 \text{ ppb}$ Trace Impurities – Manganese (Mn) $\leq 10.0 \text{ ppb}$ $< 1.0 \text{ ppb}$	Heavy Metals (as Pb)		
Trace Impurities – Lead (Pb) ≤ 20.0 ppb < 10.0 ppb	Trace Impurities - Iron (Fe)		
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 - Lead (Pb)	≤ 20.0 ppb	• • • • • • • • • • • • • • • • • • • •
Trace Impurities – Magnesium (Mg) ≤ 20 ppb < 1 ppb Trace Impurities – Manganese (Mn) ≤ 10.0 ppb < 1.0 ppb	Trace Impurities – Lithium (Li)		
Trace Impurities - Manganese (Mn) ≤ 10.0 ppb < 1.0 ppb	Trace Impurities – Magnesium (Mg)		
Trace Impurities Alieled (All)	Trace Impurities – Manganese (Mn)		
	Trace Impurities - Nickel (Ni)	≤ 20.0 ppb	< 5.0 ppb

>>> Continued on page 2 >>>





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

Test	Specification	Result
Trace Impurities - Niobium (Nb)	≤ 50.0 ppb	< 1.0 ppb
Trace Impurities – Potassium (K)	≤ 50 ppb	16 ppb
Trace Impurities - Silicon (Si)	≤ 50 ppb	< 10 ppb
Trace Impurities - Silver (Ag)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities – Sodium (Na)	≤ 150.0 ppb	< 5.0 ppb
Trace Impurities – Strontium (Sr)	≤ 30.0 ppb	< 1.0 ppb
Trace Impurities – Tantalum (Ta)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Thallium (TI)	≤ 10.0 ppb	< 5.0 ppb
Trace Impurities - Tin (Sn)	≤ 20.0 ppb	< 10.0 ppb
Trace Impurities - Titanium (Ti)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities - Vanadium (V)	≤ 10.0 ppb	< 1.0 ppb
Trace Impurities – Zinc (Zn)	≤ 20.0 ppb	< 1.0 ppb
Trace Impurities - Zirconium (Zr)	≤ 10.0 ppb	< 1.0 ppb
Particle Count – 0.5 µm and greater	≤ 60 par/ml	10 par/ml
Particle Count - 1.0 µm and greater	≤ 10 par/ml	3 par/ml

Nitric Acid 69% **CMOS**





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

Test Specification Result

For Microelectronic Use

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

Director Quality Operations, Bioscience Production



PB164551

Temp: 95 °C

Temp: 96 °C

10/30/2024 **Time:** 11:30



SOP ID: M7471B-Mercury-18, MSFAM01.1-Mercury in Soil-2

SDG No: MBHCH8 Start Digest Date:

Matrix : SOIL **End Digest Date:** 10/30/2024 **Time :** 12:00

Pippete ID: HG A Digestion tube ID: M6054

Balance ID: M SC-3 Block thermometer ID: MET-DIG#1

Filter paper ID: NA Dig Technician Signature: PH Strip ID: NA Supervisor Signature:

Hood ID: #1 Temp: 1. 95°C 2. N/A

Block ID: 1. MET-BLOCK#1 2. N/A

Standared Name	MLS USED	STD REF. # FROM LOG	
ICV	100mL	MP82968	
CCV	100mL	MP82970	
Matrix Spike	1.0mL	MP82961	
N/A	N/A	N/A	
N/A	N/A	N/A	

Chemical Used	ML/SAMPLE USED	Lot Number
AQUA REGIA	5.0mL	MP82974
KMnO4 (5%)	15.0mL	MP82652
Hydroxylamine HCL (12%)	6.0mL	MP82654
N/A	N/A	N/A

LAB SAMPLE ID	CLIENT SAMPLE ID	Wt(g)/Vol(ml)	Comment
0.0 ppb	S0	100mL	MP82962
0.05 ppb	S0.05	N/A	N/A
0.2 ppb	S0.2	100mL	MP82963
2.5 ppb	S2.5	100mL	MP82964
5.0 ppb	S5.0	100mL	MP82965
7.5 ppb	S7.5	100mL	MP82966
10.0 ppb	S10.0	100mL	MP82967
ICV	ICV	100mL	MP82968
ICB	ICB	100mL	MP82969
CCV	CCV	100mL	MP82970
ССВ	ССВ	100mL	MP82971
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
10/30/24 @12:4	0 009 ~ D159, Cong	poor metal cas
	Preparation Group	Analysis Group



Lab Sample ID	Client Sample ID	Initial Weight (g)	Final Vol (ml)	рН	Comment	Prep Pos
P4498-01	MBHDD1	0.58	100	NA	N/A	1-24
4498-02	MBHDD2	0.57	100	NA	N/A	25
4498-03	MBHDD8	0.53	100	NA	N/A	26
4498-04	MBHDD9	0,53	100	NA	N/A	27
4498-05	MBHDE0	0.58	100	NA	N/A	28
4498-06	MBHDE1	0.58	100	NA	N/A	29
4498-07	MBHDE2	0.57	100	NA	N/A	30
4498-08	MBHDE8	0.51	100	NA	N/A	31
P4498-09	MBHDE9	0.59	100	NA	N/A	32
4498-10	MBHDF0	0.57	100	NA	N/A	33
4498-11	MBHDF0D	0.55	100	NA	N/A	34
4498-12	MBHDF0S	0.54	100	NA	MP82961	35
4498-13	MBHDF1	0.50	100	NA	N/A	2-24
4498-14	MBHDF2	0.57	100	NA	N/A	25
4498-15	мвнсн8	0.53	100	NA	N/A	26
4498-16	мвнсн9	0.59	100	NA	N/A	27
4498-17	мвнс30	0.57	100	NA	N/A	28
4498-18	мвнсл1	0.50	100	NA	N/A	29
4498-19	мвнсј2	0.54	100	NA	N/A	30
4498-20	МВНС13	0.50	100	NA	N/A	31
4498-21	мвнс)5	0.50	100	NA	N/A	32
4498-22	мвнсл6	0.53	100	NA	N/A	33
B164551BL	PBS551	0.50	100	NA	N/A	34



Instrument ID: CV1

Review By	Sarabjit Jaswal	Review On	10/31/2024 10:27:13 PM	
Supervise By	Mohan Bera	Supervise On	10/31/2024 10:29:20 PM	
STD. NAME	STD REF.#			
ICAL Standard	MP82962,MP82963,MF	MP82962,MP82963,MP82964,MP82965,MP82966,MP82967		
ICV Standard	MP82968	MP82968		
CCV Standard	MP82970			
ICSA Standard				
CRI Standard				
LCS Standard				
Chk Standard	MP82969,MP82971,,MP82975			

.5 .5 .5	S01 S02 S03 S04	CAL1 CAL2 CAL3 CAL4 CAL5	10/30/24 18:18 10/30/24 18:21 10/30/24 18:23 10/30/24 18:25		Mohan Mohan Mohan Mohan	ок ок ок
.5	S02 S03 S04	CAL3 CAL4	10/30/24 18:23		Mohan	ОК
.5	S03 S04	CAL4				
.5	S04		10/30/24 18:25		Mohan	
0		CAL5			Wichan	OK
	S05		10/30/24 18:31		Mohan	ок
/ 060		CAL6	10/30/24 18:33		Mohan	ок
	ICV060	ICV	10/30/24 18:39		Mohan	ок
3060	ICB060	ICB	10/30/24 18:41		Mohan	ок
CV098	CCV098	CCV	10/30/24 18:44		Mohan	ок
CB098	CCB098	ССВ	10/30/24 18:46		Mohan	ок
164549BL	PBS549	MB	10/30/24 18:48		Mohan	ок
499-01	MBHCJ7	SAM	10/30/24 18:50		Mohan	ок
499-02	MBHCJ8	SAM	10/30/24 18:53		Mohan	ок
499-03	MBHCJ9	SAM	10/30/24 18:55		Mohan	ок
499-04	MBHCK0	SAM	10/30/24 18:57		Mohan	ок
499-05	MBHCK1	SAM	10/30/24 18:59		Mohan	ок
499-06	MBHCK2	SAM	10/30/24 19:02		Mohan	ок
499-07	МВНСК8	SAM	10/30/24 19:04		Mohan	ОК
4! 4! 4! 4!	64549BL 99-01 99-02 99-03 99-04 99-05	PBS549 99-01 MBHCJ7 99-02 MBHCJ8 99-03 MBHCJ9 99-04 MBHCK0 99-05 MBHCK1 99-06 MBHCK2	64549BL PBS549 MB 99-01 MBHCJ7 SAM 99-02 MBHCJ8 SAM 99-03 MBHCJ9 SAM 99-04 MBHCK0 SAM 99-05 MBHCK1 SAM 99-06 MBHCK2 SAM	64549BL PBS549 MB 10/30/24 18:48 99-01 MBHCJ7 SAM 10/30/24 18:50 99-02 MBHCJ8 SAM 10/30/24 18:53 99-03 MBHCJ9 SAM 10/30/24 18:55 99-04 MBHCK0 SAM 10/30/24 18:57 99-05 MBHCK1 SAM 10/30/24 18:59 99-06 MBHCK2 SAM 10/30/24 19:02	64549BL PBS549 MB 10/30/24 18:48 99-01 MBHCJ7 SAM 10/30/24 18:50 99-02 MBHCJ8 SAM 10/30/24 18:53 99-03 MBHCJ9 SAM 10/30/24 18:55 99-04 MBHCK0 SAM 10/30/24 18:57 99-05 MBHCK1 SAM 10/30/24 18:59 99-06 MBHCK2 SAM 10/30/24 19:02	64549BL PBS549 MB 10/30/24 18:48 Mohan 99-01 MBHCJ7 SAM 10/30/24 18:50 Mohan 99-02 MBHCJ8 SAM 10/30/24 18:53 Mohan 99-03 MBHCJ9 SAM 10/30/24 18:55 Mohan 99-04 MBHCK0 SAM 10/30/24 18:57 Mohan 99-05 MBHCK1 SAM 10/30/24 18:59 Mohan 99-06 MBHCK2 SAM 10/30/24 19:02 Mohan



Instrument ID: CV1

Review By	Sara	abjit Jaswal	Review On	10/31/2024 10:27:13 PM
Supervise By	Moh	nan Bera	Supervise On	10/31/2024 10:29:20 PM
STD. NAME		STD REF.#		
ICAL Standard		MP82962,MP82963,MP82964,MP82965,MP82966,MP82967		
ICV Standard		MP82968		
CCV Standard		MP82970		
ICSA Standard				
CRI Standard				
LCS Standard				
Chk Standard		MP82969,MP82971,,MP82975		

D4400 00	MDLICKO	CAM	10/20/24 10:06		Mohan	OK
F4499-06	MBUCKA	SAIVI	10/30/24 19.06	ľ	vioriari	UK
P4499-09	MBHCL0	SAM	10/30/24 19:08	1	Mohan	OK
P4499-10	MBHCL1	SAM	10/30/24 19:11	1	Mohan	ОК
P4499-11	MBHCL2	SAM	10/30/24 19:13	1	Mohan	ОК
P4499-12	мвнсү0	SAM	10/30/24 19:15	1	Mohan	ОК
P4499-13	MBHCL8	SAM	10/30/24 19:18	1	Mohan	OK
P4499-14	MBHCL9	SAM	10/30/24 19:20	1	Mohan	OK
P4499-15	мвнсмо	SAM	10/30/24 19:22	1	Mohan	OK
P4499-16	МВНСМ1	SAM	10/30/24 19:24	1	Mohan	OK
P4499-17	МВНСМ2	SAM	10/30/24 19:27	1	Mohan	OK
P4499-18	МВНСМ8	SAM	10/30/24 19:29	1	Mohan	OK
P4499-19	МВНСМ9	SAM	10/30/24 19:31	1	Mohan	OK
CCV099	CCV099	CCV	10/30/24 19:33	1	Mohan	OK
CCB099	CCB099	ССВ	10/30/24 19:36	1	Mohan	OK
P4499-20	MBHCN0	SAM	10/30/24 19:38	1	Mohan	OK
P4499-21	MBHCN0D	DUP	10/30/24 19:40	1	Mohan	OK
P4499-22	MBHCN0S	MS	10/30/24 19:42	r	Mohan	OK
PB164550BL	PBS550	МВ	10/30/24 19:45	1	Mohan	OK
P4497-01	MBHCY5	SAM	10/30/24 19:47	1	Mohan	OK
P4497-02	MBHCZ5	SAM	10/30/24 19:49	1	Mohan	OK
	P4499-10 P4499-11 P4499-12 P4499-13 P4499-14 P4499-15 P4499-16 P4499-17 P4499-18 P4499-19 CCV099 CCB099 P4499-20 P4499-21 P4499-22 PB164550BL P4497-01	P4499-09 MBHCL0 P4499-10 MBHCL1 P4499-11 MBHCL2 P4499-12 MBHCY0 P4499-13 MBHCL8 P4499-14 MBHCL9 P4499-15 MBHCM0 P4499-16 MBHCM1 P4499-17 MBHCM2 P4499-18 MBHCM8 P4499-19 CCV099 CCV099 CCB099 CCB099 P4499-20 MBHCN0 P4499-21 MBHCN0D P4499-22 MBHCN0S PB164550BL PBS550 P4497-01 MBHCY5	P4499-09 MBHCL0 SAM P4499-10 MBHCL1 SAM P4499-11 MBHCL2 SAM P4499-12 MBHCY0 SAM P4499-13 MBHCL8 SAM P4499-14 MBHCL9 SAM P4499-15 MBHCM0 SAM P4499-16 MBHCM1 SAM P4499-17 MBHCM2 SAM P4499-18 MBHCM8 SAM P4499-19 MBHCM9 SAM CCV099 CCV CCV CCB099 CCB CCB P4499-20 MBHCN0 SAM P4499-21 MBHCN0D DUP P4499-22 MBHCN0S MS PB164550BL PBS550 MB P4497-01 MBHCY5 SAM	P4499-09 MBHCL0 SAM 10/30/24 19:08 P4499-10 MBHCL1 SAM 10/30/24 19:11 P4499-11 MBHCL2 SAM 10/30/24 19:13 P4499-12 MBHCY0 SAM 10/30/24 19:15 P4499-13 MBHCL8 SAM 10/30/24 19:18 P4499-14 MBHCL9 SAM 10/30/24 19:20 P4499-15 MBHCM0 SAM 10/30/24 19:22 P4499-16 MBHCM1 SAM 10/30/24 19:24 P4499-17 MBHCM2 SAM 10/30/24 19:27 P4499-18 MBHCM8 SAM 10/30/24 19:29 P4499-19 MBHCM9 SAM 10/30/24 19:31 CCV099 CCV099 CCV 10/30/24 19:33 CCB099 CCB099 CCB 10/30/24 19:36 P4499-20 MBHCN0 SAM 10/30/24 19:38 P4499-21 MBHCN0D DUP 10/30/24 19:40 P4499-22 MBHCN0S MS 10/30/24 19:45 P4497-01 MBHCY5 SAM 10/30/24 19:47	P4499-09 MBHCL0 SAM 10/30/24 19:08	P4499-09 MBHCL0 SAM 10/30/24 19:08 Mohan P4499-10 MBHCL1 SAM 10/30/24 19:11 Mohan P4499-11 MBHCL2 SAM 10/30/24 19:13 Mohan P4499-12 MBHCY0 SAM 10/30/24 19:15 Mohan P4499-13 MBHCL8 SAM 10/30/24 19:18 Mohan P4499-14 MBHCL9 SAM 10/30/24 19:20 Mohan P4499-15 MBHCM0 SAM 10/30/24 19:22 Mohan P4499-16 MBHCM1 SAM 10/30/24 19:24 Mohan P4499-17 MBHCM2 SAM 10/30/24 19:27 Mohan P4499-18 MBHCM8 SAM 10/30/24 19:29 Mohan P4499-19 MBHCM9 SAM 10/30/24 19:39 Mohan P4499-19 MBHCM9 SAM 10/30/24 19:31 Mohan CCV099 CCV099 CCV 10/30/24 19:33 Mohan CCB099 CCB 10/30/24 19:38 Mohan P4499-20 MBHCN0 SAM 10/30/24 19:38 Mohan P4499-21 MBHCN0 MS 10/30/24 19:40 Mohan P4499-22 MBHCNOS MS 10/30/24 19:45 Mohan PB164550BL PBS550 MB 10/30/24 19:47 Mohan P4497-01 MBHCY5 SAM 10/30/24 19:47



Instrument ID: CV1

Review By	Sarabjit Jaswal	Review On	10/31/2024 10:27:13 PM		
Supervise By	Mohan Bera	Supervise On	10/31/2024 10:29:20 PM		
STD. NAME	STD REF.#				
ICAL Standard	MP82962,MP82963	MP82962,MP82963,MP82964,MP82965,MP82966,MP82967			
ICV Standard	MP82968	MP82968			
CCV Standard	MP82970	MP82970			
ICSA Standard					
CRI Standard					
LCS Standard					
Chk Standard	MP82969,MP82971	MP82969,MP82971,,MP82975			

39	P4497-03	MBHDA3	SAM	10/30/24 19:52	Mohan	ОК
40	P4497-04	MBHDA4	SAM	10/30/24 19:54	Mohan	ок
41	P4497-05	MBHDA5	SAM	10/30/24 19:56	Mohan	ОК
42	P4497-06	MBHDA6	SAM	10/30/24 19:58	Mohan	ОК
43	P4497-07	MBHDA7	SAM	10/30/24 20:01	Mohan	ОК
44	P4497-08	MBHDB3	SAM	10/30/24 20:03	Mohan	ок
45	P4497-09	MBHDB4	SAM	10/30/24 20:05	Mohan	ОК
46	P4497-10	MBHDB5	SAM	10/30/24 20:07	Mohan	ОК
47	P4497-11	MBHDB6	SAM	10/30/24 20:10	Mohan	ок
48	P4497-12	MBHDB7	SAM	10/30/24 20:12	Mohan	ОК
49	P4497-13	MBHDB8	SAM	10/30/24 20:14	Mohan	ОК
50	P4497-14	MBHDB9	SAM	10/30/24 20:16	Mohan	ОК
51	P4497-15	MBHDC0	SAM	10/30/24 20:19	Mohan	ОК
52	P4497-16	MBHDC1	SAM	10/30/24 20:21	Mohan	ОК
53	CCV001	CCV001	CCV	10/30/24 20:23	Mohan	ОК
54	CCB001	CCB001	ССВ	10/30/24 20:25	Mohan	ОК
55	P4497-17	MBHDC2	SAM	10/30/24 20:28	Mohan	ОК
56	P4497-18	MBHDC8	SAM	10/30/24 20:30	Mohan	ок
57	P4497-19	MBHDC9	SAM	10/30/24 20:32	Mohan	ОК
58	P4497-20	MBHDD0	SAM	10/30/24 20:35	Mohan	ОК
	I .				l .	



Instrument ID: CV1

Review By	Sarabjit Jaswal	Review On	10/31/2024 10:27:13 PM		
Supervise By	Mohan Bera	Supervise On	10/31/2024 10:29:20 PM		
STD. NAME	STD REF.#				
ICAL Standard	MP82962,MP82963	MP82962,MP82963,MP82964,MP82965,MP82966,MP82967			
ICV Standard	MP82968	MP82968			
CCV Standard	MP82970	MP82970			
ICSA Standard					
CRI Standard					
LCS Standard					
Chk Standard	MP82969,MP82971	MP82969,MP82971,,MP82975			

497-22 164551BL 498-01 498-02 498-03 498-04	MBHDD0S PBS551 MBHDD1 MBHDD2 MBHDD8	DUP MS MB SAM SAM SAM	10/30/24 20:37 10/30/24 20:41 10/30/24 20:43 10/30/24 20:46 10/30/24 20:48 10/30/24 20:50		Mohan Mohan Mohan	OK OK OK OK OK
164551BL 498-01 498-02 498-03 498-04	PBS551 MBHDD1 MBHDD2 MBHDD8	MB SAM SAM	10/30/24 20:43 10/30/24 20:46 10/30/24 20:48		Mohan Mohan	ок ок
498-01 498-02 498-03 498-04	MBHDD1 MBHDD2 MBHDD8	SAM SAM	10/30/24 20:46 10/30/24 20:48		Mohan	OK
498-02 498-03 498-04	MBHDD2 MBHDD8	SAM SAM	10/30/24 20:48			
498-03 498-04	MBHDD8	SAM			Mohan	ОК
498-04			10/30/24 20:50		+	
	MBHDD9	CAM			Mohan	OK
498-05		SAM	10/30/24 20:53		Mohan	OK
	MBHDE0	SAM	10/30/24 20:55		Mohan	OK
498-06	MBHDE1	SAM	10/30/24 20:57		Mohan	ОК
498-07	MBHDE2	SAM	10/30/24 20:59		Mohan	OK
498-08	MBHDE8	SAM	10/30/24 21:02		Mohan	ОК
498-09	MBHDE9	SAM	10/30/24 21:04		Mohan	OK
498-10	MBHDF0	SAM	10/30/24 21:06		Mohan	OK
498-11	MBHDF0D	DUP	10/30/24 21:08		Mohan	OK
498-12	MBHDF0S	MS	10/30/24 21:11		Mohan	OK
498-13	MBHDF1	SAM	10/30/24 21:13		Mohan	OK
V002	CCV002	CCV	10/30/24 21:15		Mohan	OK
B002	CCB002	ССВ	10/30/24 21:18		Mohan	OK
498-14	MBHDF2	SAM	10/30/24 21:20		Mohan	OK
498-15	МВНСН8	SAM	10/30/24 21:22		Mohan	OK
4! 4! 4! V = E	98-06 98-07 98-08 98-09 98-10 98-11 98-12 98-13 7002 8002 98-14	98-06 MBHDE1 98-07 MBHDE2 98-08 MBHDE8 98-09 MBHDE9 98-10 MBHDF0 98-11 MBHDF0D 98-12 MBHDF0S 98-13 MBHDF1 7002 CCV002 8002 CCB002 98-14 MBHDF2	98-06 MBHDE1 SAM 98-07 MBHDE2 SAM 98-08 MBHDE8 SAM 98-09 MBHDE9 SAM 98-10 MBHDF0 SAM 98-11 MBHDF0D DUP 98-12 MBHDF0S MS 98-13 MBHDF1 SAM 7002 CCV002 CCV 8002 CCB002 CCB	98-06 MBHDE1 SAM 10/30/24 20:57 98-07 MBHDE2 SAM 10/30/24 20:59 98-08 MBHDE8 SAM 10/30/24 21:02 98-09 MBHDE9 SAM 10/30/24 21:04 98-10 MBHDF0 SAM 10/30/24 21:06 98-11 MBHDF0D DUP 10/30/24 21:08 98-12 MBHDF0S MS 10/30/24 21:11 98-13 MBHDF1 SAM 10/30/24 21:13 7002 CCV002 CCV 10/30/24 21:15 8002 CCB002 CCB 10/30/24 21:18 98-14 MBHDF2 SAM 10/30/24 21:20	98-06 MBHDE1 SAM 10/30/24 20:57 98-07 MBHDE2 SAM 10/30/24 20:59 98-08 MBHDE8 SAM 10/30/24 21:02 98-09 MBHDE9 SAM 10/30/24 21:04 98-10 MBHDF0 SAM 10/30/24 21:06 98-11 MBHDF0D DUP 10/30/24 21:08 98-12 MBHDF0S MS 10/30/24 21:11 98-13 MBHDF1 SAM 10/30/24 21:13 98-14 MBHDF2 SAM 10/30/24 21:15 98-14 MBHDF2 SAM 10/30/24 21:18 98-14 MBHDF2 SAM 10/30/24 21:18	98-06 MBHDE1 SAM 10/30/24 20:57 Mohan 98-07 MBHDE2 SAM 10/30/24 20:59 Mohan 98-08 MBHDE8 SAM 10/30/24 21:02 Mohan 98-09 MBHDE9 SAM 10/30/24 21:04 Mohan 98-10 MBHDF0 SAM 10/30/24 21:06 Mohan 98-11 MBHDF0D DUP 10/30/24 21:08 Mohan 98-12 MBHDF0S MS 10/30/24 21:11 Mohan 98-13 MBHDF1 SAM 10/30/24 21:13 Mohan 98-14 MBHDF1 SAM 10/30/24 21:15 Mohan 98-15 MS 10/30/24 21:15 Mohan 98-16 MSHDF1 SAM 10/30/24 21:15 Mohan 98-17 MSHDF1 SAM 10/30/24 21:15 Mohan 98-18 MSHDF1 SAM 10/30/24 21:15 Mohan 98-19 MSHDF1 SAM 10/30/24 21:18 Mohan 98-19 MSHDF1 SAM 10/30/24 21:18 Mohan



Instrument ID: CV1

Review By	Sarabjit Jaswal	Review On	10/31/2024 10:27:13 PM				
Supervise By	Mohan Bera	Supervise On	10/31/2024 10:29:20 PM				
STD. NAME	STD REF.#						
ICAL Standard	MP82962,MP82963,	MP82962,MP82963,MP82964,MP82965,MP82966,MP82967					
ICV Standard	MP82968	MP82968					
CCV Standard	MP82970						
ICSA Standard							
CRI Standard							
LCS Standard							
Chk Standard	MP82969,MP82971,	,MP82975					

79	P4498-16	МВНСН9	SAM	10/30/24 21:24	Mohan	ОК
80	P4498-17	мвнсјо	SAM	10/30/24 21:27	Mohan	ок
81	P4498-18	MBHCJ1	SAM	10/30/24 21:29	Mohan	ок
82	P4498-19	MBHCJ2	SAM	10/30/24 21:31	Mohan	ок
83	P4498-20	мвнс јз	SAM	10/30/24 21:34	Mohan	ок
84	P4498-21	MBHCJ5	SAM	10/30/24 21:36	Mohan	ок
85	P4498-22	мвнсј6	SAM	10/30/24 21:38	Mohan	ок
86	CCV003	CCV003	CCV	10/30/24 21:40	Mohan	ок
87	CCB003	CCB003	ССВ	10/30/24 21:43	Mohan	ок