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

Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV11	Mercury	4.06	4.0	102	95 - 105	CV	08/12/2025	17:35	LB136791

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: PLASMA-PURE

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV32	Mercury	4.97	5.0	99	90 - 110	CV	08/12/2025	17:42	LB136791
CCV33	Mercury	4.66	5.0	93	90 - 110	CV	08/12/2025	18:18	LB136791
CCV34	Mercury	4.75	5.0	95	90 - 110	CV	08/12/2025	18:30	LB136791

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Metals

- 2a -
INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
ICV01	Aluminum	7680	8000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Antimony	3940	4000	98	95 - 105	P	08/12/2025	11:34	LB136789
	Arsenic	3830	4000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Barium	7750	8000	97	95 - 105	P	08/12/2025	11:34	LB136789
	Beryllium	191	200	96	95 - 105	P	08/12/2025	11:34	LB136789
	Cadmium	1900	2000	95	95 - 105	P	08/12/2025	11:34	LB136789
	Calcium	19300	20000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Chromium	794	800	99	95 - 105	P	08/12/2025	11:34	LB136789
	Cobalt	1950	2000	98	95 - 105	P	08/12/2025	11:34	LB136789
	Copper	999	1000	100	95 - 105	P	08/12/2025	11:34	LB136789
	Iron	3930	4000	98	95 - 105	P	08/12/2025	11:34	LB136789
	Lead	4050	4000	101	95 - 105	P	08/12/2025	11:34	LB136789
	Magnesium	19200	20000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Manganese	1930	2000	97	95 - 105	P	08/12/2025	11:34	LB136789
	Nickel	1950	2000	98	95 - 105	P	08/12/2025	11:34	LB136789
	Potassium	19200	20000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Selenium	3800	4000	95	95 - 105	P	08/12/2025	11:34	LB136789
	Silver	1010	1000	101	95 - 105	P	08/12/2025	11:34	LB136789
	Sodium	19200	20000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Thallium	3860	4000	96	95 - 105	P	08/12/2025	11:34	LB136789
	Vanadium	1940	2000	97	95 - 105	P	08/12/2025	11:34	LB136789
	Zinc	1950	2000	97	95 - 105	P	08/12/2025	11:34	LB136789

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
LLICV01	Aluminum	99.4	100	99	80 - 120	P	08/12/2025	11:43	LB136789
	Antimony	51.1	50.0	102	80 - 120	P	08/12/2025	11:43	LB136789
	Arsenic	22.2	20.0	111	80 - 120	P	08/12/2025	11:43	LB136789
	Barium	91.1	100	91	80 - 120	P	08/12/2025	11:43	LB136789
	Beryllium	5.84	6.0	97	80 - 120	P	08/12/2025	11:43	LB136789
	Cadmium	5.45	6.0	91	80 - 120	P	08/12/2025	11:43	LB136789
	Calcium	1990	2000	99	80 - 120	P	08/12/2025	11:43	LB136789
	Chromium	9.95	10.0	100	80 - 120	P	08/12/2025	11:43	LB136789
	Cobalt	29.0	30.0	97	80 - 120	P	08/12/2025	11:43	LB136789
	Copper	21.2	20.0	106	80 - 120	P	08/12/2025	11:43	LB136789
	Iron	102	100	102	80 - 120	P	08/12/2025	11:43	LB136789
	Lead	10.9	12.0	91	80 - 120	P	08/12/2025	11:43	LB136789
	Magnesium	2090	2000	104	80 - 120	P	08/12/2025	11:43	LB136789
	Manganese	20.5	20.0	103	80 - 120	P	08/12/2025	11:43	LB136789
	Nickel	39.0	40.0	97	80 - 120	P	08/12/2025	11:43	LB136789
	Potassium	1730	2000	86	80 - 120	P	08/12/2025	11:43	LB136789
	Selenium	18.2	20.0	91	80 - 120	P	08/12/2025	11:43	LB136789
	Silver	10.2	10.0	102	80 - 120	P	08/12/2025	11:43	LB136789
	Sodium	1730	2000	86	80 - 120	P	08/12/2025	11:43	LB136789
	Thallium	33.4	40.0	83	80 - 120	P	08/12/2025	11:43	LB136789
	Vanadium	42.7	40.0	107	80 - 120	P	08/12/2025	11:43	LB136789
	Zinc	40.5	40.0	101	80 - 120	P	08/12/2025	11:43	LB136789

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Metals

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV01	Aluminum	9600	10000	96	90 - 110	P	08/12/2025	12:50	LB136789
	Antimony	4970	5000	99	90 - 110	P	08/12/2025	12:50	LB136789
	Arsenic	4910	5000	98	90 - 110	P	08/12/2025	12:50	LB136789
	Barium	9910	10000	99	90 - 110	P	08/12/2025	12:50	LB136789
	Beryllium	249	250	99	90 - 110	P	08/12/2025	12:50	LB136789
	Cadmium	2380	2500	95	90 - 110	P	08/12/2025	12:50	LB136789
	Calcium	24100	25000	96	90 - 110	P	08/12/2025	12:50	LB136789
	Chromium	968	1000	97	90 - 110	P	08/12/2025	12:50	LB136789
	Cobalt	2390	2500	96	90 - 110	P	08/12/2025	12:50	LB136789
	Copper	1220	1250	98	90 - 110	P	08/12/2025	12:50	LB136789
	Iron	5030	5000	101	90 - 110	P	08/12/2025	12:50	LB136789
	Lead	4880	5000	98	90 - 110	P	08/12/2025	12:50	LB136789
	Magnesium	24100	25000	96	90 - 110	P	08/12/2025	12:50	LB136789
	Manganese	2420	2500	97	90 - 110	P	08/12/2025	12:50	LB136789
	Nickel	2400	2500	96	90 - 110	P	08/12/2025	12:50	LB136789
	Potassium	25000	25000	100	90 - 110	P	08/12/2025	12:50	LB136789
	Selenium	4910	5000	98	90 - 110	P	08/12/2025	12:50	LB136789
	Silver	1230	1250	98	90 - 110	P	08/12/2025	12:50	LB136789
	Sodium	25000	25000	100	90 - 110	P	08/12/2025	12:50	LB136789
	Thallium	4870	5000	97	90 - 110	P	08/12/2025	12:50	LB136789
	Vanadium	2440	2500	98	90 - 110	P	08/12/2025	12:50	LB136789
	Zinc	2480	2500	99	90 - 110	P	08/12/2025	12:50	LB136789
CCV02	Aluminum	9870	10000	99	90 - 110	P	08/12/2025	14:27	LB136789
	Antimony	5220	5000	104	90 - 110	P	08/12/2025	14:27	LB136789
	Arsenic	5160	5000	103	90 - 110	P	08/12/2025	14:27	LB136789
	Barium	9880	10000	99	90 - 110	P	08/12/2025	14:27	LB136789
	Beryllium	229	250	91	90 - 110	P	08/12/2025	14:27	LB136789
	Cadmium	2460	2500	98	90 - 110	P	08/12/2025	14:27	LB136789
	Calcium	24300	25000	97	90 - 110	P	08/12/2025	14:27	LB136789
	Chromium	1000	1000	100	90 - 110	P	08/12/2025	14:27	LB136789
	Cobalt	2470	2500	99	90 - 110	P	08/12/2025	14:27	LB136789
	Copper	1270	1250	102	90 - 110	P	08/12/2025	14:27	LB136789
	Iron	5300	5000	106	90 - 110	P	08/12/2025	14:27	LB136789
	Lead	4880	5000	98	90 - 110	P	08/12/2025	14:27	LB136789

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV02	Magnesium	24000	25000	96	90 - 110	P	08/12/2025	14:27	LB136789
	Manganese	2440	2500	97	90 - 110	P	08/12/2025	14:27	LB136789
	Nickel	2480	2500	99	90 - 110	P	08/12/2025	14:27	LB136789
	Potassium	26700	25000	107	90 - 110	P	08/12/2025	14:27	LB136789
	Selenium	5250	5000	105	90 - 110	P	08/12/2025	14:27	LB136789
	Silver	1260	1250	101	90 - 110	P	08/12/2025	14:27	LB136789
	Sodium	24700	25000	99	90 - 110	P	08/12/2025	14:27	LB136789
	Thallium	5280	5000	106	90 - 110	P	08/12/2025	14:27	LB136789
	Vanadium	2490	2500	100	90 - 110	P	08/12/2025	14:27	LB136789
	Zinc	2560	2500	102	90 - 110	P	08/12/2025	14:27	LB136789
CCV03	Aluminum	9920	10000	99	90 - 110	P	08/12/2025	16:07	LB136789
	Antimony	5180	5000	104	90 - 110	P	08/12/2025	16:07	LB136789
	Arsenic	5110	5000	102	90 - 110	P	08/12/2025	16:07	LB136789
	Barium	9960	10000	100	90 - 110	P	08/12/2025	16:07	LB136789
	Beryllium	229	250	91	90 - 110	P	08/12/2025	16:07	LB136789
	Cadmium	2430	2500	97	90 - 110	P	08/12/2025	16:07	LB136789
	Calcium	24200	25000	97	90 - 110	P	08/12/2025	16:07	LB136789
	Chromium	990	1000	99	90 - 110	P	08/12/2025	16:07	LB136789
	Cobalt	2440	2500	98	90 - 110	P	08/12/2025	16:07	LB136789
	Copper	1260	1250	101	90 - 110	P	08/12/2025	16:07	LB136789
	Iron	5310	5000	106	90 - 110	P	08/12/2025	16:07	LB136789
	Lead	4820	5000	96	90 - 110	P	08/12/2025	16:07	LB136789
	Magnesium	23900	25000	96	90 - 110	P	08/12/2025	16:07	LB136789
	Manganese	2440	2500	98	90 - 110	P	08/12/2025	16:07	LB136789
	Nickel	2450	2500	98	90 - 110	P	08/12/2025	16:07	LB136789
	Potassium	26400	25000	106	90 - 110	P	08/12/2025	16:07	LB136789
	Selenium	5200	5000	104	90 - 110	P	08/12/2025	16:07	LB136789
	Silver	1260	1250	100	90 - 110	P	08/12/2025	16:07	LB136789
	Sodium	24900	25000	100	90 - 110	P	08/12/2025	16:07	LB136789
	Thallium	5060	5000	101	90 - 110	P	08/12/2025	16:07	LB136789
	Vanadium	2490	2500	100	90 - 110	P	08/12/2025	16:07	LB136789
	Zinc	2520	2500	101	90 - 110	P	08/12/2025	16:07	LB136789
CCV04	Aluminum	9960	10000	100	90 - 110	P	08/12/2025	16:30	LB136789
	Antimony	5290	5000	106	90 - 110	P	08/12/2025	16:30	LB136789

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

Client: Xin Nie **SDG No.:** Q2785

Contract: XINN01 **Lab Code:** ACE

Initial Calibration Source: EPA

Continuing Calibration Source: Inorganic Ventures

Sample ID	Analyte	Result ug/L	True Value	% Recovery	Acceptance Window (%R)	M	Analysis Date	Analysis Time	Run Number
CCV04	Arsenic	5230	5000	104	90 - 110	P	08/12/2025	16:30	LB136789
	Barium	10100	10000	101	90 - 110	P	08/12/2025	16:30	LB136789
	Beryllium	227	250	91	90 - 110	P	08/12/2025	16:30	LB136789
	Cadmium	2460	2500	98	90 - 110	P	08/12/2025	16:30	LB136789
	Calcium	24200	25000	97	90 - 110	P	08/12/2025	16:30	LB136789
	Chromium	995	1000	100	90 - 110	P	08/12/2025	16:30	LB136789
	Cobalt	2470	2500	99	90 - 110	P	08/12/2025	16:30	LB136789
	Copper	1280	1250	103	90 - 110	P	08/12/2025	16:30	LB136789
	Iron	5400	5000	108	90 - 110	P	08/12/2025	16:30	LB136789
	Lead	4870	5000	97	90 - 110	P	08/12/2025	16:30	LB136789
	Magnesium	23900	25000	96	90 - 110	P	08/12/2025	16:30	LB136789
	Manganese	2440	2500	98	90 - 110	P	08/12/2025	16:30	LB136789
	Nickel	2490	2500	100	90 - 110	P	08/12/2025	16:30	LB136789
	Potassium	26700	25000	107	90 - 110	P	08/12/2025	16:30	LB136789
	Selenium	5330	5000	107	90 - 110	P	08/12/2025	16:30	LB136789
	Silver	1270	1250	101	90 - 110	P	08/12/2025	16:30	LB136789
	Sodium	25200	25000	101	90 - 110	P	08/12/2025	16:30	LB136789
	Thallium	5020	5000	100	90 - 110	P	08/12/2025	16:30	LB136789
	Vanadium	2500	2500	100	90 - 110	P	08/12/2025	16:30	LB136789
	Zinc	2500	2500	100	90 - 110	P	08/12/2025	16:30	LB136789