AAFCO Proficiency Testing Program

ANAB ACCREDITED ISO/IEC 17043 PROFICIENCY TESTING PROVIDER

AAFCO PTP Minerals Scheme

Minerals Scheme

Beef Feed, Medicated

Test Material Code # 202151

Analyte Proficiency Testing Report

 # Labs Reporting: 32

 # Analytes Reported 16

Issue Date : 04/30/2021

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
015	Aluminum (ppm)	0870	322.7	9.386	475.6	30.09	13.14	16	-5.08	015.43	0
015	Aluminum (ppm)	2292	397.5	1.000	475.6	30.09	13.14	16	-2.60	015.99	0
015	Aluminum (ppm)	0511	397.9	4.730	475.6	30.09	13.14	16	-2.58	015.43	0
015	Aluminum (ppm)	0860	442.2	0.0000	475.6	30.09	13.14	16	-1.11	015.43	0
015	Aluminum (ppm)	0186	453.0	30.00	475.6	30.09	13.14	16	-0.75	015.52	0
015	Aluminum (ppm)	0208	461.5	45.00	475.6	30.09	13.14	16	-0.47	015.41	0
015	Aluminum (ppm)	0918	487.4	10.75	475.6	30.09	13.14	16	0.39	015.53	0
015	Aluminum (ppm)	0407	489.5	1.386	475.6	30.09	13.14	16	0.46	015.41	0
015	Aluminum (ppm)	2207	492.0	10.00	475.6	30.09	13.14	16	0.54	015.42	0
015	Aluminum (ppm)	0510	493.5	1.000	475.6	30.09	13.14	16	0.59	015.43	0
015	Aluminum (ppm)	0278	502.6	16.60	475.6	30.09	13.14	16	0.90	015.43	0
015	Aluminum (ppm)	0407	513.6	3.953	475.6	30.09	13.14	16	1.26	015.53	0
015	Aluminum (ppm)	0098	514.5	18.40	475.6	30.09	13.14	16	1.29	015.43	0
015	Aluminum (ppm)	0227	515.5	3.000	475.6	30.09	13.14	16	1.33	015.41	0
015	Aluminum (ppm)	0042	518.5	47.00	475.6	30.09	13.14	16	1.43	015.42	0
015	Aluminum (ppm)	0553	521.0	8.000	475.6	30.09	13.14	16	1.51	015.53	0
017	Boron (ppm)	0553	49.50	2.200	55.80	4.873	1.971	8	-1.29	017.53	0
017	Boron (ppm)	0098	52.70	0.9000	55.80	4.873	1.971	8	-0.64	017.43	0
017	Boron (ppm)	0918	54.68	1.190	55.80	4.873	1.971	8	-0.23	017.43	0
017	Boron (ppm)	0407	55.02	0.7206	55.80	4.873	1.971	8	-0.16	017.41	0
017	Boron (ppm)	0407	55.12	3.257	55.80	4.873	1.971	8	-0.14	017.53	0
017	Boron (ppm)	2207	57.55	4.500	55.80	4.873	1.971	8	0.36	017.42	0
017	Boron (ppm)	0510	60.00	0.0000	55.80	4.873	1.971	8	0.86	017.43	0
017	Boron (ppm)	0870	61.87	2.999	55.80	4.873	1.971	8	1.24	017.43	0
021	Cobalt (ppm)	2113	9.700	0.4000	11.71	1.294	0.5388	19	-1.56	021.52	0
021	Cobalt (ppm)	0918	10.22	0.1066	11.71	1.294	0.5388	19	-1.15	021.53	0
021	Cobalt (ppm)	0186	10.50	0.8000	11.71	1.294	0.5388	19	-0.94	021.52	0
021	Cobalt (ppm)	0407	10.73	0.2111	11.71	1.294	0.5388	19	-0.76	021.41	0
021	Cobalt (ppm)	2207	10.76	0.7400	11.71	1.294	0.5388	19	-0.74	021.52	0
021	Cobalt (ppm)	0042	10.95	1.700	11.71	1.294	0.5388	19	-0.59	021.42	0
021	Cobalt (ppm)	0511	11.07	0.3100	11.71	1.294	0.5388	19	-0.50	021.43	0
021	Cobalt (ppm)	0098	11.08	0.0700	11.71	1.294	0.5388	19	-0.49	021.53	0
021	Cobalt (ppm)	2141	11.30	0.6200	11.71	1.294	0.5388	19	-0.32	021.43	0

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Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
021	Cobalt (ppm)	0208	11.40	0.4000	11.71	1.294	0.5388	19	-0.24	021.31	0
021	Cobalt (ppm)	0407	11.84	0.2658	11.71	1.294	0.5388	19	0.09	021.53	0
021	Cobalt (ppm)	0033	11.95	0.9000	11.71	1.294	0.5388	19	0.18	021.53	0
021	Cobalt (ppm)	0227	12.00	0.0000	11.71	1.294	0.5388	19	0.22	021.31	0
021	Cobalt (ppm)	0278	12.47	0.5000	11.71	1.294	0.5388	19	0.59	021.43	0
021	Cobalt (ppm)	0510	13.02	0.0400	11.71	1.294	0.5388	19	1.01	021.43	0
021	Cobalt (ppm)	0553	13.10	0.6000	11.71	1.294	0.5388	19	1.07	021.53	0
021	Cobalt (ppm)	0870	13.12	0.4329	11.71	1.294	0.5388	19	1.09	021.43	0
021	Cobalt (ppm)	0563	13.61	0.3412	11.71	1.294	0.5388	19	1.47	021.31	0
021	Cobalt (ppm)	0876	15.30	1.800	11.71	1.294	0.5388	19	2.77	021.43	0
022	Copper (ppm)	2207	10.76	0.7400	80.23	6.634	2.727	28	-10.47	022.42	0
022	Copper (ppm)	0876	40.70	1.800	80.23	6.634	2.727	28	-5.96	022.43	0
022	Copper (ppm)	0208	64.64	1.970	80.23	6.634	2.727	28	-2.35	022.41	0
022	Copper (ppm)	0208	70.15	9.900	80.23	6.634	2.727	28	-1.52	022.31	0
022	Copper (ppm)	0529	71.30	3.600	80.23	6.634	2.727	28	-1.35	022.31	0
022	Copper (ppm)	0563	71.63	0.8090	80.23	6.634	2.727	28	-1.30	022.31	0
022	Copper (ppm)	2306	72.50	1.000	80.23	6.634	2.727	28	-1.17	022.51	0
022	Copper (ppm)	0407	72.61	1.357	80.23	6.634	2.727	28	-1.15	022.41	0
022	Copper (ppm)	0227	76.50	1.000	80.23	6.634	2.727	28	-0.56	022.41	0
022	Copper (ppm)	0278	77.55	12.30	80.23	6.634	2.727	28	-0.40	022.42	0
022	Copper (ppm)	0511	77.66	0.3300	80.23	6.634	2.727	28	-0.39	022.43	0
022	Copper (ppm)	0098	79.79	0.8900	80.23	6.634	2.727	28	-0.07	022.53	0
022	Copper (ppm)	0407	79.98	8.243	80.23	6.634	2.727	28	-0.04	022.53	0
022	Copper (ppm)	0553	80.25	0.1000	80.23	6.634	2.727	28	0.00	022.53	0
022	Copper (ppm)	0033	80.65	4.900	80.23	6.634	2.727	28	0.06	022.53	0
022	Copper (ppm)	2114	81.22	0.6830	80.23	6.634	2.727	28	0.15	022.99	0
022	Copper (ppm)	0186	82.00	0.0000	80.23	6.634	2.727	28	0.27	022.52	0
022	Copper (ppm)	0918	82.81	0.5800	80.23	6.634	2.727	28	0.39	022.43	0
022	Copper (ppm)	2113	85.00	2.000	80.23	6.634	2.727	28	0.72	022.52	0
022	Copper (ppm)	0870	85.91	0.6739	80.23	6.634	2.727	28	0.86	022.43	0
022	Copper (ppm)	0017	87.12	0.3244	80.23	6.634	2.727	28	1.04	022.43	0
022	Copper (ppm)	0860	88.01	0.0000	80.23	6.634	2.727	28	1.17	022.43	0
022	Copper (ppm)	0006	88.36	1.224	80.23	6.634	2.727	28	1.22	022.53	0
022	Copper (ppm)	2141	89.22	5.620	80.23	6.634	2.727	28	1.35	022.43	0
022	Copper (ppm)	0010	89.50	3.000	80.23	6.634	2.727	28	1.40	022.33	0
022	Copper (ppm)	0202	90.65	12.30	80.23	6.634	2.727	28	1.57	022.43	0
022	Copper (ppm)	0510	94.00	0.0000	80.23	6.634	2.727	28	2.08	022.43	0
022	Copper (ppm)	2292	147.5	1.000	80.23	6.634	2.727	28	10.14	022.99	0
023	Fluorine (ppm)	0227	21.50	1.000				1		023.01	0
023	Fluorine (ppm)	2144	< 480					1		023.01	5
024	Iodine (ppm)	0208	389.0	24.00				2		024.99	0
024	Iodine (ppm)	0186	421.0	28.00				2		024.52	0

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Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
034	Selenium (ppm)	2114	6.369	0.1838	7.395	0.8754	0.3274	18	-1.17	034.43	0
034	Selenium (ppm)	0278	6.503	0.0150	7.395	0.8754	0.3274	18	-1.02	034.53	0
034	Selenium (ppm)	0098	6.576	0.0930	7.395	0.8754	0.3274	18	-0.94	034.53	0
034	Selenium (ppm)	0227	6.615	0.7300	7.395	0.8754	0.3274	18	-0.89	034.04	0
034	Selenium (ppm)	0186	6.710	0.3400	7.395	0.8754	0.3274	18	-0.78	034.52	0
034	Selenium (ppm)	0033	6.710	0.1800	7.395	0.8754	0.3274	18	-0.78	034.53	0
034	Selenium (ppm)	0006	6.749	0.0320	7.395	0.8754	0.3274	18	-0.74	034.53	0
034	Selenium (ppm)	0553	6.835	0.9100	7.395	0.8754	0.3274	18	-0.64	034.53	0
034	Selenium (ppm)	0870	6.932	0.2574	7.395	0.8754	0.3274	18	-0.53	034.43	0
034	Selenium (ppm)	0208	7.630	0.0400	7.395	0.8754	0.3274	18	0.27	034.52	0
034	Selenium (ppm)	2207	7.650	0.7000	7.395	0.8754	0.3274	18	0.29	034.52	0
034	Selenium (ppm)	0010	7.800	0.4000	7.395	0.8754	0.3274	18	0.46	034.53	0
034	Selenium (ppm)	0563	7.963	0.0925	7.395	0.8754	0.3274	18	0.65	034.04	0
034	Selenium (ppm)	0407	8.069	0.1461	7.395	0.8754	0.3274	18	0.77	034.53	0
034	Selenium (ppm)	0918	8.147	0.4127	7.395	0.8754	0.3274	18	0.86	034.53	0
034	Selenium (ppm)	2141	8.375	0.8500	7.395	0.8754	0.3274	18	1.12	034.43	0
034	Selenium (ppm)	0723	8.705	0.3100	7.395	0.8754	0.3274	18	1.50	034.43	0
034	Selenium (ppm)	0876	18.10	0.2000	7.395	0.8754	0.3274	18	12.23	034.43	0
034	Selenium (ppm)	0042	< 16		7.395	0.8754	0.3274	18		034.42	5
036	Sulfur (%)	0278	0.3850	0.0300	0.4563	0.0205	0.0146	17	-3.47	036.42	0
036	Sulfur (%)	2141	0.3922	0.0047	0.4563	0.0205	0.0146	17	-3.12	036.43	0
036	Sulfur (%)	0553	0.4160	0.0140	0.4563	0.0205	0.0146	17	-1.96	036.53	0
036	Sulfur (%)	0870	0.4267	0.0063	0.4563	0.0205	0.0146	17	-1.44	036.42	0
036	Sulfur (%)	2207	0.4350	0.0100	0.4563	0.0205	0.0146	17	-1.04	036.42	0
036	Sulfur (%)	0098	0.4405	0.0150	0.4563	0.0205	0.0146	17	-0.77	036.43	0
036	Sulfur (%)	0918	0.4435	0.0050	0.4563	0.0205	0.0146	17	-0.62	036.43	0
036	Sulfur (%)	0227	0.4450	0.0100	0.4563	0.0205	0.0146	17	-0.55	036.42	0
036	Sulfur (%)	0010	0.4450	0.0100	0.4563	0.0205	0.0146	17	-0.55	036.43	0
036	Sulfur (%)	0208	0.4460	0.0080	0.4563	0.0205	0.0146	17	-0.50	036.00	0
036	Sulfur (%)	0186	0.4580	0.0180	0.4563	0.0205	0.0146	17	0.08	036.52	0
036	Sulfur (%)	0876	0.4600	0.0200	0.4563	0.0205	0.0146	17	0.18	036.43	0
036	Sulfur (%)	0186	0.4765	0.0410	0.4563	0.0205	0.0146	17	0.98	036.42	0
036	Sulfur (%)	2292	0.5105	0.0070	0.4563	0.0205	0.0146	17	2.64	036.99	0
036	Sulfur (%)	0510	0.5150	0.0300	0.4563	0.0205	0.0146	17	2.86	036.43	0
036	Sulfur (%)	0202	0.5385	0.0170	0.4563	0.0205	0.0146	17	4.00	036.43	0
036	Sulfur (%)	0407	0.5713	0.0017	0.4563	0.0205	0.0146	17	5.60	036.42	0
038	Molybdenum (ppm)	0918	1.936	0.0248	3.254	0.4358	0.2386	19	-3.02	038.53	0
038	Molybdenum (ppm)	0563	2.264	0.2975	3.254	0.4358	0.2386	19	-2.27	038.34	0
038	Molybdenum (ppm)	2207	2.460	0.2600	3.254	0.4358	0.2386	19	-1.82	038.52	0
038	Molybdenum (ppm)	0407	2.677	0.0588	3.254	0.4358	0.2386	19	-1.32	038.41	0
038	Molybdenum (ppm)	0407	2.745	0.0773	3.254	0.4358	0.2386	19	-1.17	038.53	0
038	Molybdenum (ppm)	0278	2.805	0.6500	3.254	0.4358	0.2386	19	-1.03	038.42	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
038	Molybdenum (ppm)	2113	2.950	0.3000	3.254	0.4358	0.2386	19	-0.70	038.52	0
038	Molybdenum (ppm)	0098	3.129	0.0300	3.254	0.4358	0.2386	19	-0.29	038.53	0
038	Molybdenum (ppm)	0208	3.235	0.0900	3.254	0.4358	0.2386	19	-0.04	038.41	0
038	Molybdenum (ppm)	0510	3.300	0.0000	3.254	0.4358	0.2386	19	0.11	038.43	0
038	Molybdenum (ppm)	0511	3.515	0.0300	3.254	0.4358	0.2386	19	0.60	038.43	0
038	Molybdenum (ppm)	0227	3.575	0.0500	3.254	0.4358	0.2386	19	0.74	038.53	0
038	Molybdenum (ppm)	0042	3.620	1.320	3.254	0.4358	0.2386	19	0.84	038.42	0
038	Molybdenum (ppm)	0033	3.750	0.5200	3.254	0.4358	0.2386	19	1.14	038.53	0
038	Molybdenum (ppm)	0186	3.760	0.1600	3.254	0.4358	0.2386	19	1.16	038.52	0
038	Molybdenum (ppm)	0870	3.808	0.2168	3.254	0.4358	0.2386	19	1.27	038.43	0
038	Molybdenum (ppm)	0553	3.830	0.2400	3.254	0.4358	0.2386	19	1.32	038.53	0
038	Molybdenum (ppm)	0006	3.889	0.0080	3.254	0.4358	0.2386	19	1.46	038.53	0
038	Molybdenum (ppm)	0010	4.300	0.2000	3.254	0.4358	0.2386	19	2.40	038.53	0
038	Molybdenum (ppm)	0876	8.050	5.300	3.254	0.4358	0.2386	19	11.01	038.43	1
038	Molybdenum (ppm)	2141	< 5		3.254	0.4358	0.2386	19		038.43	5
041	Vanadium (ppm)	0098	8.798	0.3850	9.905	1.122	0.3222	8	-0.99	041.53	0
041	Vanadium (ppm)	0511	9.335	0.2500	9.905	1.122	0.3222	8	-0.51	041.43	0
041	Vanadium (ppm)	0563	9.883	0.3386	9.905	1.122	0.3222	8	-0.02	041.34	0
041	Vanadium (ppm)	0870	10.03	0.1007	9.905	1.122	0.3222	8	0.11	041.43	0
041	Vanadium (ppm)	0553	10.09	0.2300	9.905	1.122	0.3222	8	0.16	041.53	0
041	Vanadium (ppm)	0278	10.10	0.0500	9.905	1.122	0.3222	8	0.17	041.43	0
041	Vanadium (ppm)	0407	10.24	1.024	9.905	1.122	0.3222	8	0.30	041.53	0
041	Vanadium (ppm)	2207	10.40	0.2000	9.905	1.122	0.3222	8	0.44	041.52	0
516	Arsenic, Total (ppm)	0563	0.6450	0.0100	1.322	0.2028	0.1471	20	-3.34	516.00	0
516	Arsenic, Total (ppm)	2146	1.105	0.0100	1.322	0.2028	0.1471	20	-1.07	516.34	0
516	Arsenic, Total (ppm)	0186	1.120	0.0800	1.322	0.2028	0.1471	20	-1.00	516.52	0
516	Arsenic, Total (ppm)	0033	1.175	0.1300	1.322	0.2028	0.1471	20	-0.73	516.53	0
516	Arsenic, Total (ppm)	0098	1.198	0.0840	1.322	0.2028	0.1471	20	-0.61	516.53	0
516	Arsenic, Total (ppm)	0553	1.200	0.0000	1.322	0.2028	0.1471	20	-0.60	516.53	0
516	Arsenic, Total (ppm)	0006	1.247	0.0120	1.322	0.2028	0.1471	20	-0.37	516.53	0
516	Arsenic, Total (ppm)	2306	1.250	0.1000	1.322	0.2028	0.1471	20	-0.36	516.53	0
516	Arsenic, Total (ppm)	2114	1.298	0.0618	1.322	0.2028	0.1471	20	-0.12	516.43	0
516	Arsenic, Total (ppm)	0407	1.305	0.0297	1.322	0.2028	0.1471	20	-0.08	516.43	0
516	Arsenic, Total (ppm)	0227	1.330	0.0200	1.322	0.2028	0.1471	20	0.04	516.53	0
516	Arsenic, Total (ppm)	0208	1.350	0.0200	1.322	0.2028	0.1471	20	0.14	516.52	0
516	Arsenic, Total (ppm)	0010	1.350	0.1000	1.322	0.2028	0.1471	20	0.14	516.53	0
516	Arsenic, Total (ppm)	0407	1.369	0.0302	1.322	0.2028	0.1471	20	0.23	516.53	0
516	Arsenic, Total (ppm)	2207	1.400	0.2000	1.322	0.2028	0.1471	20	0.38	516.52	0
516	Arsenic, Total (ppm)	0918	1.449	0.0306	1.322	0.2028	0.1471	20	0.62	516.53	0
516	Arsenic, Total (ppm)	0870	1.476	0.0138	1.322	0.2028	0.1471	20	0.76	516.43	0
516	Arsenic, Total (ppm)	0511	1.585	0.2100	1.322	0.2028	0.1471	20	1.29	516.43	0
516	Arsenic, Total (ppm)	2113	1.650	0.3000	1.322	0.2028	0.1471	20	1.61	516.52	0

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			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
516	Arsenic, Total (ppm)	0876	6.150	1.500	1.322	0.2028	0.1471	20	23.80	516.43	0
516	Arsenic, Total (ppm)	0425	7.990	2.140	1.322	0.2028	0.1471	20	32.87	516.34	1
516	Arsenic, Total (ppm)	0043	< 1.35		1.322	0.2028	0.1471	20		516.43	5
516	Arsenic, Total (ppm)	0042	< 4		1.322	0.2028	0.1471	20		516.42	5
516	Arsenic, Total (ppm)	2141	< 5		1.322	0.2028	0.1471	20		516.43	5
518	Cadmium (ppm)	0407	4.626	0.2173	10.06	1.137	0.3230	26	-4.78	518.41	0
518	Cadmium (ppm)	0563	6.625	0.0676	10.06	1.137	0.3230	26	-3.02	518.31	0
518	Cadmium (ppm)	0511	8.545	0.3300	10.06	1.137	0.3230	26	-1.33	518.43	0
518	Cadmium (ppm)	0098	9.415	0.0500	10.06	1.137	0.3230	26	-0.56	518.53	0
518	Cadmium (ppm)	0723	9.515	0.2100	10.06	1.137	0.3230	26	-0.48	518.43	0
518	Cadmium (ppm)	2141	9.545	0.2300	10.06	1.137	0.3230	26	-0.45	518.43	0
518	Cadmium (ppm)	0186	9.595	0.6300	10.06	1.137	0.3230	26	-0.41	518.52	0
518	Cadmium (ppm)	0278	9.723	0.3610	10.06	1.137	0.3230	26	-0.29	518.43	0
518	Cadmium (ppm)	0033	9.800	1.200	10.06	1.137	0.3230	26	-0.23	518.53	0
518	Cadmium (ppm)	0043	9.926	0.5230	10.06	1.137	0.3230	26	-0.11	518.43	0
518	Cadmium (ppm)	2146	9.990	0.0800	10.06	1.137	0.3230	26	-0.06	518.34	0
518	Cadmium (ppm)	0042	10.08	0.4500	10.06	1.137	0.3230	26	0.02	518.42	0
518	Cadmium (ppm)	0208	10.10	0.0000	10.06	1.137	0.3230	26	0.04	518.52	0
518	Cadmium (ppm)	0010	10.10	0.4000	10.06	1.137	0.3230	26	0.04	518.53	0
518	Cadmium (ppm)	0006	10.15	0.0500	10.06	1.137	0.3230	26	0.08	518.53	0
518	Cadmium (ppm)	0918	10.17	0.2587	10.06	1.137	0.3230	26	0.10	518.53	0
518	Cadmium (ppm)	0425	10.17	0.0600	10.06	1.137	0.3230	26	0.10	518.34	0
518	Cadmium (ppm)	2146	10.32	0.9600	10.06	1.137	0.3230	26	0.23	518.52	0
518	Cadmium (ppm)	0870	10.35	0.3473	10.06	1.137	0.3230	26	0.26	518.43	0
518	Cadmium (ppm)	0407	10.40	0.8585	10.06	1.137	0.3230	26	0.30	518.53	0
518	Cadmium (ppm)	0227	10.60	0.0000	10.06	1.137	0.3230	26	0.48	518.53	0
518	Cadmium (ppm)	0553	10.60	0.2000	10.06	1.137	0.3230	26	0.48	518.53	0
518	Cadmium (ppm)	2306	10.65	0.1000	10.06	1.137	0.3230	26	0.52	518.53	0
518	Cadmium (ppm)	2113	11.00	0.0000	10.06	1.137	0.3230	26	0.83	518.52	0
518	Cadmium (ppm)	2207	11.01	0.2700	10.06	1.137	0.3230	26	0.83	518.52	0
518	Cadmium (ppm)	2114	11.06	0.5443	10.06	1.137	0.3230	26	0.88	518.99	0
518	Cadmium (ppm)	0876	12.40	2.000	10.06	1.137	0.3230	26	2.06	518.43	1
520	Chromium (ppm)	0918	11.07	0.6332	29.90	2.868	2.066	21	-6.57	520.53	0
520	Chromium (ppm)	2207	17.50	3.000	29.90	2.868	2.066	21	-4.32	520.52	0
520	Chromium (ppm)	0407	19.10	0.0739	29.90	2.868	2.066	21	-3.77	520.41	0
520	Chromium (ppm)	0407	20.92	0.3520	29.90	2.868	2.066	21	-3.13	520.53	0
520	Chromium (ppm)	0563	22.88	1.050	29.90	2.868	2.066	21	-2.45	520.31	0
520	Chromium (ppm)	2113	23.00	6.000	29.90	2.868	2.066	21	-2.40	520.52	0
520	Chromium (ppm)	0723	26.20	2.000	29.90	2.868	2.066	21	-1.29	520.43	0
520	Chromium (ppm)	0098	28.25	2.300	29.90	2.868	2.066	21	-0.57	520.53	0
520	Chromium (ppm)	2141	31.69	5.480	29.90	2.868	2.066	21	0.63	520.43	0
520	Chromium (ppm)	0511	32.10	0.3500	29.90	2.868	2.066	21	0.77	520.43	0

Test Material Code # 202151 | **Analyte Proficiency Testing Report** | **Issue Date : 04/30/2021**

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
520	Chromium (ppm)	0186	32.15	0.5000	29.90	2.868	2.066	21	0.79	520.52	0
520	Chromium (ppm)	0208	32.50	5.000	29.90	2.868	2.066	21	0.91	520.41	0
520	Chromium (ppm)	0033	33.15	3.100	29.90	2.868	2.066	21	1.13	520.53	0
520	Chromium (ppm)	0227	33.20	0.4000	29.90	2.868	2.066	21	1.15	520.31	0
520	Chromium (ppm)	0278	33.93	1.420	29.90	2.868	2.066	21	1.41	520.43	0
520	Chromium (ppm)	0006	35.52	0.0390	29.90	2.868	2.066	21	1.96	520.53	0
520	Chromium (ppm)	0553	36.05	4.300	29.90	2.868	2.066	21	2.15	520.53	0
520	Chromium (ppm)	0010	36.65	3.900	29.90	2.868	2.066	21	2.35	520.53	0
520	Chromium (ppm)	0870	37.17	0.3317	29.90	2.868	2.066	21	2.54	520.43	0
520	Chromium (ppm)	0510	38.56	0.9500	29.90	2.868	2.066	21	3.02	520.43	0
520	Chromium (ppm)	0876	38.70	2.200	29.90	2.868	2.066	21	3.07	520.43	0
520	Chromium (ppm)	0042	26.45	14.10	29.90	2.868	2.066	21	-1.20	520.42	1
526	Lead (ppm)	0407	13.98	0.5135	25.14	2.476	0.9247	26	-4.51	526.41	0
526	Lead (ppm)	0563	19.77	0.1048	25.14	2.476	0.9247	26	-2.17	526.31	0
526	Lead (ppm)	0511	20.01	2.230	25.14	2.476	0.9247	26	-2.08	526.43	0
526	Lead (ppm)	2146	22.08	0.0200	25.14	2.476	0.9247	26	-1.24	526.34	0
526	Lead (ppm)	0723	22.65	1.900	25.14	2.476	0.9247	26	-1.01	526.43	0
526	Lead (ppm)	0870	23.09	1.132	25.14	2.476	0.9247	26	-0.83	526.43	0
526	Lead (ppm)	2146	23.16	1.730	25.14	2.476	0.9247	26	-0.80	526.52	0
526	Lead (ppm)	2114	23.22	1.305	25.14	2.476	0.9247	26	-0.78	526.99	0
526	Lead (ppm)	0425	23.59	0.1700	25.14	2.476	0.9247	26	-0.63	526.34	0
526	Lead (ppm)	0918	24.88	0.3016	25.14	2.476	0.9247	26	-0.11	526.53	0
526	Lead (ppm)	0186	25.00	1.400	25.14	2.476	0.9247	26	-0.06	526.52	0
526	Lead (ppm)	2113	25.00	0.0000	25.14	2.476	0.9247	26	-0.06	526.52	0
526	Lead (ppm)	0098	25.00	0.4000	25.14	2.476	0.9247	26	-0.06	526.53	0
526	Lead (ppm)	0033	25.35	2.900	25.14	2.476	0.9247	26	0.08	526.53	0
526	Lead (ppm)	0010	25.45	1.100	25.14	2.476	0.9247	26	0.12	526.53	0
526	Lead (ppm)	0227	26.40	0.4000	25.14	2.476	0.9247	26	0.51	526.53	0
526	Lead (ppm)	2306	26.50	0.4000	25.14	2.476	0.9247	26	0.55	526.53	0
526	Lead (ppm)	0006	26.60	0.6910	25.14	2.476	0.9247	26	0.59	526.53	0
526	Lead (ppm)	2141	26.62	0.8400	25.14	2.476	0.9247	26	0.60	526.43	0
526	Lead (ppm)	0208	27.40	0.4000	25.14	2.476	0.9247	26	0.91	526.52	0
526	Lead (ppm)	0553	27.50	1.200	25.14	2.476	0.9247	26	0.95	526.53	0
526	Lead (ppm)	0042	27.55	0.9000	25.14	2.476	0.9247	26	0.97	526.42	0
526	Lead (ppm)	0278	27.67	0.5800	25.14	2.476	0.9247	26	1.02	526.43	0
526	Lead (ppm)	2207	28.40	0.6000	25.14	2.476	0.9247	26	1.32	526.52	0
526	Lead (ppm)	0407	28.49	1.795	25.14	2.476	0.9247	26	1.35	526.53	0
526	Lead (ppm)	0043	29.63	1.030	25.14	2.476	0.9247	26	1.81	526.43	0
526	Lead (ppm)	0876	28.45	4.300	25.14	2.476	0.9247	26	1.34	526.43	1
529	Mercury (ppb)	0425	0.5900	0.6800	786.4	130.4	28.66	17	-6.02	529.00	0
529	Mercury (ppb)	0186	0.7235	0.1090	786.4	130.4	28.66	17	-6.02	529.99	0
529	Mercury (ppb)	2207	0.9500	0.1000	786.4	130.4	28.66	17	-6.02	529.99	0

Test Material Code # 202151 | **Analyte Proficiency Testing Report** | **Issue Date : 04/30/2021**

Method Group	Analyte Group (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Your Method	Flag
			Value	Range	Rob Mean	Horwitz SD	R-bar	# Tests			
529	Mercury (ppb)	0563	662.4	71.30	786.4	130.4	28.66	17	-0.95	529.99	0
529	Mercury (ppb)	2146	665.5	73.00	786.4	130.4	28.66	17	-0.93	529.00	0
529	Mercury (ppb)	0918	776.5	3.000	786.4	130.4	28.66	17	-0.08	529.99	0
529	Mercury (ppb)	2146	789.0	18.00	786.4	130.4	28.66	17	0.02	529.99	0
529	Mercury (ppb)	0098	823.0	48.00	786.4	130.4	28.66	17	0.28	529.99	0
529	Mercury (ppb)	2306	847.0	8.000	786.4	130.4	28.66	17	0.46	529.99	0
529	Mercury (ppb)	0033	852.0	60.00	786.4	130.4	28.66	17	0.50	529.99	0
529	Mercury (ppb)	0407	852.6	71.69	786.4	130.4	28.66	17	0.51	529.99	0
529	Mercury (ppb)	2114	879.4	7.790	786.4	130.4	28.66	17	0.71	529.99	0
529	Mercury (ppb)	0006	882.5	18.64	786.4	130.4	28.66	17	0.74	529.99	0
529	Mercury (ppb)	0042	884.5	3.000	786.4	130.4	28.66	17	0.75	529.00	0
529	Mercury (ppb)	0553	907.0	28.00	786.4	130.4	28.66	17	0.92	529.99	0
529	Mercury (ppb)	0010	929.0	32.00	786.4	130.4	28.66	17	1.09	529.99	0
529	Mercury (ppb)	0227	934.0	44.00	786.4	130.4	28.66	17	1.13	529.99	0
529	Mercury (ppb)	0208	931.5	177.0	786.4	130.4	28.66	17	1.11	529.99	1
529	Mercury (ppb)	0043	< 5700		786.4	130.4	28.66	17		529.99	5
539	Nickel (ppm)	0918	5.687	0.2221	15.41	1.634	0.6519	18	-5.95	539.53	0
539	Nickel (ppm)	2207	7.915	0.1300	15.41	1.634	0.6519	18	-4.59	539.52	0
539	Nickel (ppm)	0042	10.46	2.080	15.41	1.634	0.6519	18	-3.03	539.42	0
539	Nickel (ppm)	0407	10.83	0.1058	15.41	1.634	0.6519	18	-2.81	539.53	0
539	Nickel (ppm)	0208	12.70	1.200	15.41	1.634	0.6519	18	-1.66	539.41	0
539	Nickel (ppm)	0407	12.78	0.1221	15.41	1.634	0.6519	18	-1.61	539.41	0
539	Nickel (ppm)	0098	14.30	0.6000	15.41	1.634	0.6519	18	-0.68	539.53	0
539	Nickel (ppm)	0511	15.33	0.1500	15.41	1.634	0.6519	18	-0.05	539.43	0
539	Nickel (ppm)	0010	15.50	1.000	15.41	1.634	0.6519	18	0.05	539.53	0
539	Nickel (ppm)	0278	15.90	0.6700	15.41	1.634	0.6519	18	0.30	539.43	0
539	Nickel (ppm)	0186	16.75	0.3000	15.41	1.634	0.6519	18	0.82	539.52	0
539	Nickel (ppm)	0006	17.66	0.3170	15.41	1.634	0.6519	18	1.37	539.53	0
539	Nickel (ppm)	0553	18.35	1.700	15.41	1.634	0.6519	18	1.80	539.53	0
539	Nickel (ppm)	0860	18.50	0.0000	15.41	1.634	0.6519	18	1.89	539.43	0
539	Nickel (ppm)	0870	18.76	0.3464	15.41	1.634	0.6519	18	2.05	539.43	0
539	Nickel (ppm)	0876	19.80	0.4000	15.41	1.634	0.6519	18	2.69	539.43	0
539	Nickel (ppm)	2141	20.68	2.390	15.41	1.634	0.6519	18	3.22	539.43	0
539	Nickel (ppm)	2292	28.00	0.0000	15.41	1.634	0.6519	18	7.71	539.99	0
539	Nickel (ppm)	2113	11.95	4.100	15.41	1.634	0.6519	18	-2.12	539.52	1

Notes: Interpreting Z Scores: Red indicates a normally distributed Z value >3 or <-3 (requires action), Orange = Z between 2 and 3 or -2 and -3 (warning) and Green = Z < 2 and >-2 (OK at 95%). Flags indicate data usage: 0 = Used, 1 = Rejected for duplicates too far apart, 2 = Rejected as outlier, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.