



Llama & Alpaca Mineral

Animal Feed Scheme

Labs Reporting: 166

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
000.02	Urea, As protein, Colorimetric (%)	0278	0.10000	0.00000				1			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0620	3.6183	0.24920	3.9618	0.25075	0.11204	5	-1.37	4%	0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	3.8400	0.10000	3.9618	0.25075	0.11204	5	-0.49	2%	0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0027	3.9705	0.13100	3.9618	0.25075	0.11204	5	0.03	0%	0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	4.1050	0.07000	3.9618	0.25075	0.11204	5	0.57	2%	0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0169	4.2750	0.01000	3.9618	0.25075	0.11204	5	1.25	4%	0
001.03	Loss on Drying, Low temp. methods (%)	0893	3.5600	0.00000	3.7460	0.10728	0.01428	6	-1.73	2%	0
001.03	Loss on Drying, Low temp. methods (%)	0878	3.7250	0.03000	3.7460	0.10728	0.01428	6	-0.20	0%	0
001.03	Loss on Drying, Low temp. methods (%)	2093	3.7342	0.01570	3.7460	0.10728	0.01428	6	-0.11	0%	0
001.03	Loss on Drying, Low temp. methods (%)	0895	3.7550	0.01000	3.7460	0.10728	0.01428	6	0.08	0%	0
001.03	Loss on Drying, Low temp. methods (%)	0903	3.7700	0.02000	3.7460	0.10728	0.01428	6	0.22	0%	0
001.03	Loss on Drying, Low temp. methods (%)	0897	4.1450	0.01000	3.7460	0.10728	0.01428	6	3.72	5%	0
001.03	Loss on Drying, Low temp. methods (%)	0186	3.6150	0.13000	3.7460	0.10728	0.01428	6	-1.22	2%	1
001.05	Loss on Drying, LECO (%)	0610	3.6550	0.03000				3			0
001.05	Loss on Drying, LECO (%)	0644	3.8350	0.01000				3			0
001.05	Loss on Drying, LECO (%)	2161	9.9350	0.01000				3			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0045	3.3550	0.87000	4.0020	0.25840	0.14771	24	-2.50	8%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0609	3.7500	0.10000	4.0020	0.25840	0.14771	24	-0.98	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0066	3.7650	0.07000	4.0020	0.25840	0.14771	24	-0.92	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2009	3.7841	0.03070	4.0020	0.25840	0.14771	24	-0.84	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0003	3.7850	0.09000	4.0020	0.25840	0.14771	24	-0.84	3%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0187	3.8100	0.02000	4.0020	0.25840	0.14771	24	-0.74	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0049	3.8600	0.32000	4.0020	0.25840	0.14771	24	-0.55	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0849	3.8625	0.02500	4.0020	0.25840	0.14771	24	-0.54	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0353	3.8800	0.04000	4.0020	0.25840	0.14771	24	-0.47	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0139	3.9000	0.12000	4.0020	0.25840	0.14771	24	-0.39	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0171	3.9150	0.01000	4.0020	0.25840	0.14771	24	-0.34	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2145	3.9800	0.02000	4.0020	0.25840	0.14771	24	-0.09	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0693	3.9884	0.13940	4.0020	0.25840	0.14771	24	-0.05	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0142	3.9900	0.04000	4.0020	0.25840	0.14771	24	-0.05	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0083	4.0100	0.04000	4.0020	0.25840	0.14771	24	0.03	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0297	4.0350	0.03000	4.0020	0.25840	0.14771	24	0.13	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0843	4.0700	0.02000	4.0020	0.25840	0.14771	24	0.26	1%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2146	4.0750	0.15000	4.0020	0.25840	0.14771	24	0.28	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2012	4.1000	0.06000	4.0020	0.25840	0.14771	24	0.38	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2109	4.3150	0.35000	4.0020	0.25840	0.14771	24	1.21	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2144	4.4300	0.04000	4.0020	0.25840	0.14771	24	1.66	5%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0366	4.5000	0.60000	4.0020	0.25840	0.14771	24	1.93	6%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0278	4.5700	0.34000	4.0020	0.25840	0.14771	24	2.20	7%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0529	5.4900	0.02000	4.0020	0.25840	0.14771	24	5.76	19%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	3.2300	0.98000	4.0020	0.25840	0.14771	24	-2.99	10%	1
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	0590	4.1000	0.20000				1			0
001.99	Loss on Drying, Miscellaneous (%)	0019	2.6700	0.16000	3.9012	0.37687	0.12141	17	-3.27	16%	0
001.99	Loss on Drying, Miscellaneous (%)	0536	3.3900	0.02000	3.9012	0.37687	0.12141	17	-1.36	7%	0
001.99	Loss on Drying, Miscellaneous (%)	0510	3.5000	0.20000	3.9012	0.37687	0.12141	17	-1.06	5%	0
001.99	Loss on Drying, Miscellaneous (%)	2149	3.6270	0.10600	3.9012	0.37687	0.12141	17	-0.73	4%	0
001.99	Loss on Drying, Miscellaneous (%)	0918	3.6500	0.06000	3.9012	0.37687	0.12141	17	-0.67	3%	0
001.99	Loss on Drying, Miscellaneous (%)	0612	3.7950	0.29000	3.9012	0.37687	0.12141	17	-0.28	1%	0
001.99	Loss on Drying, Miscellaneous (%)	2053	3.8150	0.01000	3.9012	0.37687	0.12141	17	-0.23	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0720	3.8600	0.04000	3.9012	0.37687	0.12141	17	-0.11	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0910	3.9000	0.20000	3.9012	0.37687	0.12141	17	0.00	0%	0
001.99	Loss on Drying, Miscellaneous (%)	0948	3.9550	0.01000	3.9012	0.37687	0.12141	17	0.14	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0889	3.9800	0.20000	3.9012	0.37687	0.12141	17	0.21	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0505	4.0850	0.01000	3.9012	0.37687	0.12141	17	0.49	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0676	4.1150	0.11000	3.9012	0.37687	0.12141	17	0.57	3%	0
001.99	Loss on Drying, Miscellaneous (%)	0004	4.1650	0.11000	3.9012	0.37687	0.12141	17	0.70	3%	0
001.99	Loss on Drying, Miscellaneous (%)	0037	4.3050	0.15000	3.9012	0.37687	0.12141	17	1.07	5%	0
001.99	Loss on Drying, Miscellaneous (%)	0357	4.3765	0.17800	3.9012	0.37687	0.12141	17	1.26	6%	0
001.99	Loss on Drying, Miscellaneous (%)	0852	4.4950	0.21000	3.9012	0.37687	0.12141	17	1.58	8%	0
002.00	Protein, Crude (%)	0169	0.00000	0.00000				0			4
002.01	Protein, Auto Kjell-Foss (%)	0889	3.6600	0.08000	4.9313	1.0031	0.02250	4	-2.58	16%	0
002.01	Protein, Auto Kjell-Foss (%)	0685	4.6000	0.00000	4.9313	1.0031	0.02250	4	-1.15	7%	0
002.01	Protein, Auto Kjell-Foss (%)	0164	5.6650	0.01000	4.9313	1.0031	0.02250	4	0.47	3%	0
002.01	Protein, Auto Kjell-Foss (%)	0610	5.8000	0.00000	4.9313	1.0031	0.02250	4	0.68	4%	0
002.04	Protein, Copper Catalyst (%)	0874	5.3950	0.21000				2			0
002.04	Protein, Copper Catalyst (%)	0405	14.475	0.05000				2			0
002.05	Protein, Copper, Boric Acid (%)	0623	5.3980	0.28000	5.7345	0.27031	0.17835	8	-1.24	3%	0
002.05	Protein, Copper, Boric Acid (%)	0620	5.5653	0.15360	5.7345	0.27031	0.17835	8	-0.63	1%	0
002.05	Protein, Copper, Boric Acid (%)	2097	5.5925	0.17200	5.7345	0.27031	0.17835	8	-0.53	1%	0
002.05	Protein, Copper, Boric Acid (%)	2109	5.6650	0.05000	5.7345	0.27031	0.17835	8	-0.26	1%	0
002.05	Protein, Copper, Boric Acid (%)	2006	5.7150	0.11000	5.7345	0.27031	0.17835	8	-0.07	0%	0
002.05	Protein, Copper, Boric Acid (%)	0622	5.8253	0.19120	5.7345	0.27031	0.17835	8	0.34	1%	0
002.05	Protein, Copper, Boric Acid (%)	2073	5.9750	0.09000	5.7345	0.27031	0.17835	8	0.89	2%	0
002.05	Protein, Copper, Boric Acid (%)	0852	15.200	0.38000	5.7345	0.27031	0.17835	8	35.02	83%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
002.06	Protein, Combustion Nitrogen Analyzer (%)	2057	2.1190	0.15800	5.9117	0.32126	0.12827	39	-11.81	32%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0918	5.3500	0.28000	5.9117	0.32126	0.12827	39	-1.75	5%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0539	5.3700	0.12000	5.9117	0.32126	0.12827	39	-1.69	5%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0880	5.5787	0.31650	5.9117	0.32126	0.12827	39	-1.04	3%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0692	5.6300	0.22000	5.9117	0.32126	0.12827	39	-0.88	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0297	5.6400	0.06000	5.9117	0.32126	0.12827	39	-0.85	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0520	5.6500	0.10000	5.9117	0.32126	0.12827	39	-0.81	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0144	5.6550	0.07000	5.9117	0.32126	0.12827	39	-0.80	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0650	5.6600	0.08000	5.9117	0.32126	0.12827	39	-0.78	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0609	5.6650	0.03000	5.9117	0.32126	0.12827	39	-0.77	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	2150	5.6689	0.06220	5.9117	0.32126	0.12827	39	-0.76	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0139	5.7050	0.01000	5.9117	0.32126	0.12827	39	-0.64	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0278	5.7500	0.10000	5.9117	0.32126	0.12827	39	-0.50	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0610	5.7500	0.10000	5.9117	0.32126	0.12827	39	-0.50	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0644	5.7780	0.01000	5.9117	0.32126	0.12827	39	-0.42	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0353	5.8000	0.10000	5.9117	0.32126	0.12827	39	-0.35	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0171	5.8400	0.20000	5.9117	0.32126	0.12827	39	-0.22	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0205	5.8430	0.16600	5.9117	0.32126	0.12827	39	-0.21	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0884	5.8500	0.10000	5.9117	0.32126	0.12827	39	-0.19	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0956	5.8500	0.10000	5.9117	0.32126	0.12827	39	-0.19	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0859	5.8965	0.05100	5.9117	0.32126	0.12827	39	-0.05	0%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0358	5.9350	0.21000	5.9117	0.32126	0.12827	39	0.07	0%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0037	5.9400	0.28000	5.9117	0.32126	0.12827	39	0.09	0%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0142	5.9600	0.00000	5.9117	0.32126	0.12827	39	0.15	0%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0202	5.9675	0.05100	5.9117	0.32126	0.12827	39	0.17	0%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0300	5.9825	0.12300	5.9117	0.32126	0.12827	39	0.22	1%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0693	6.1056	0.09050	5.9117	0.32126	0.12827	39	0.60	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	2006	6.1300	0.06000	5.9117	0.32126	0.12827	39	0.68	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0265	6.1650	0.25000	5.9117	0.32126	0.12827	39	0.79	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0407	6.1900	0.02620	5.9117	0.32126	0.12827	39	0.87	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	2076	6.1985	0.15100	5.9117	0.32126	0.12827	39	0.89	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0164	6.2050	0.05000	5.9117	0.32126	0.12827	39	0.91	2%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0589	6.2550	0.07000	5.9117	0.32126	0.12827	39	1.07	3%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0843	6.2600	0.32000	5.9117	0.32126	0.12827	39	1.08	3%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0541	6.2900	0.54000	5.9117	0.32126	0.12827	39	1.18	3%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0682	6.3100	0.00000	5.9117	0.32126	0.12827	39	1.24	3%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0309	6.3767	0.03300	5.9117	0.32126	0.12827	39	1.45	4%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0953	6.5790	0.19400	5.9117	0.32126	0.12827	39	2.08	6%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	0083	7.0300	0.12000	5.9117	0.32126	0.12827	39	3.48	9%	0
002.06	Protein, Combustion Nitrogen Analyzer (%)	2081	5.6150	0.73000	5.9117	0.32126	0.12827	39	-0.92	3%	1
002.06	Protein, Combustion Nitrogen Analyzer (%)	0047	0.00000	0.00000	5.9117	0.32126	0.12827	39			4

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
002.06	Protein, Combustion Nitrogen Analyzer (%)	0108	0.00000	0.00000	5.9117	0.32126	0.12827	39			4
002.08	Protein, Cu/Ti (%)	0563	5.3659	0.43910				1			0
002.11	Protein, NIR (%)	0889	3.7650	0.35000				2			0
002.11	Protein, NIR (%)	0852	15.200	0.38000				2			0
002.99	Protein, Miscellaneous (%)	2004	5.9950	0.03000				1			0
003.00	Fat, Eth Ext., Direct (%)	2109	0.48500	0.05000				3			0
003.00	Fat, Eth Ext., Direct (%)	0142	0.67000	0.00000				3			0
003.00	Fat, Eth Ext., Direct (%)	0309	0.71390	0.00820				3			0
003.06	Fat, Pet Ether (%)	0563	0.45200	0.02860	0.57533	0.14407	0.01477	6	-0.86	11%	0
003.06	Fat, Pet Ether (%)	0297	0.47500	0.01000	0.57533	0.14407	0.01477	6	-0.70	9%	0
003.06	Fat, Pet Ether (%)	0884	0.50000	0.00000	0.57533	0.14407	0.01477	6	-0.52	7%	0
003.06	Fat, Pet Ether (%)	0682	0.56000	0.00000	0.57533	0.14407	0.01477	6	-0.11	1%	0
003.06	Fat, Pet Ether (%)	0164	0.72500	0.03000	0.57533	0.14407	0.01477	6	1.04	13%	0
003.06	Fat, Pet Ether (%)	0644	0.74000	0.02000	0.57533	0.14407	0.01477	6	1.14	14%	0
003.06	Fat, Pet Ether (%)	0918	0.96500	0.11000	0.57533	0.14407	0.01477	6	2.70	34%	1
003.09	Fat, Soxtec, Eth Ext (%)	0685	0.85000	0.00000				2			0
003.09	Fat, Soxtec, Eth Ext (%)	0353	0.93000	0.12000				2			0
003.10	Fat, Soxtec, Pet Ether (%)	0889	0.03000	0.00000	0.34733	0.13026	0.06592	6	-2.44	46%	0
003.10	Fat, Soxtec, Pet Ether (%)	0553	0.26500	0.05000	0.34733	0.13026	0.06592	6	-0.63	12%	0
003.10	Fat, Soxtec, Pet Ether (%)	2073	0.39500	0.07000	0.34733	0.13026	0.06592	6	0.37	7%	0
003.10	Fat, Soxtec, Pet Ether (%)	0693	0.39705	0.00550	0.34733	0.13026	0.06592	6	0.38	7%	0
003.10	Fat, Soxtec, Pet Ether (%)	0541	0.43500	0.19000	0.34733	0.13026	0.06592	6	0.67	13%	0
003.10	Fat, Soxtec, Pet Ether (%)	0609	0.44000	0.08000	0.34733	0.13026	0.06592	6	0.71	13%	0
003.11	Fat, NIR (%)	0852	2.5600	0.48000				1			0
003.13	Fat, Soxtec, Hexane Ext. (%)	0205	0.50200	0.03400				2			0
003.13	Fat, Soxtec, Hexane Ext. (%)	2006	0.95500	0.27000				2			0
003.14	Fat, Ankom (%)	0144	0.38000	0.08000	0.49223	0.11233	0.08189	12	-1.00	11%	0
003.14	Fat, Ankom (%)	0692	0.40000	0.00000	0.49223	0.11233	0.08189	12	-0.82	9%	0
003.14	Fat, Ankom (%)	0956	0.40000	0.12000	0.49223	0.11233	0.08189	12	-0.82	9%	0
003.14	Fat, Ankom (%)	0358	0.40500	0.01000	0.49223	0.11233	0.08189	12	-0.78	9%	0
003.14	Fat, Ankom (%)	0202	0.41450	0.05500	0.49223	0.11233	0.08189	12	-0.69	8%	0
003.14	Fat, Ankom (%)	0265	0.48500	0.07000	0.49223	0.11233	0.08189	12	-0.06	1%	0
003.14	Fat, Ankom (%)	0529	0.48500	0.29000	0.49223	0.11233	0.08189	12	-0.06	1%	0
003.14	Fat, Ankom (%)	0520	0.51000	0.22000	0.49223	0.11233	0.08189	12	0.16	2%	0
003.14	Fat, Ankom (%)	0407	0.54585	0.09770	0.49223	0.11233	0.08189	12	0.48	5%	0
003.14	Fat, Ankom (%)	0037	0.56000	0.04000	0.49223	0.11233	0.08189	12	0.60	7%	0
003.14	Fat, Ankom (%)	0278	0.80000	0.00000	0.49223	0.11233	0.08189	12	2.74	31%	0
003.14	Fat, Ankom (%)	0682	0.80000	0.00000	0.49223	0.11233	0.08189	12	2.74	31%	0
003.14	Fat, Ankom (%)	0843	0.46000	0.86000	0.49223	0.11233	0.08189	12	-0.29	3%	1
003.14	Fat, Ankom (%)	0108	0.00000	0.00000	0.49223	0.11233	0.08189	12			4
003.99	Fat, Miscellaneous (%)	0536	0.54500	0.01000				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
003.99	Fat, Miscellaneous (%)	0880	0.45000	0.90000				1			4
004.00	Fiber, Crude, Asbestos Free (%)	2004	7.2700	0.16000	7.8668	0.53634	0.37703	6	-1.11	4%	0
004.00	Fiber, Crude, Asbestos Free (%)	0309	7.6395	0.12720	7.8668	0.53634	0.37703	6	-0.42	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	2073	7.6700	0.14000	7.8668	0.53634	0.37703	6	-0.37	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0164	7.9500	0.50000	7.8668	0.53634	0.37703	6	0.16	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0884	8.0000	0.60000	7.8668	0.53634	0.37703	6	0.25	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	2076	10.123	0.73500	7.8668	0.53634	0.37703	6	4.21	14%	0
004.00	Fiber, Crude, Asbestos Free (%)	0169	0.00000	0.00000	7.8668	0.53634	0.37703	6			4
004.03	Fiber, Fritted Glass (%)	0353	7.1650	0.29000				2			0
004.03	Fiber, Fritted Glass (%)	0693	9.3014	1.1584				2			0
004.06	Fiber, Fibertec (%)	2006	6.5200	0.04000	7.1113	0.42423	0.17750	4	-1.39	4%	0
004.06	Fiber, Fibertec (%)	0205	7.1900	0.20000	7.1113	0.42423	0.17750	4	0.19	1%	0
004.06	Fiber, Fibertec (%)	0918	7.2050	0.21000	7.1113	0.42423	0.17750	4	0.22	1%	0
004.06	Fiber, Fibertec (%)	0609	7.5300	0.26000	7.1113	0.42423	0.17750	4	0.99	3%	0
004.07	Fiber, ANKOM (%)	0682	6.6000	0.00000	8.7726	1.6173	0.35558	17	-1.34	12%	0
004.07	Fiber, ANKOM (%)	0265	7.2800	0.60000	8.7726	1.6173	0.35558	17	-0.92	9%	0
004.07	Fiber, ANKOM (%)	0956	7.3000	0.20000	8.7726	1.6173	0.35558	17	-0.91	8%	0
004.07	Fiber, ANKOM (%)	0520	7.4300	0.26000	8.7726	1.6173	0.35558	17	-0.83	8%	0
004.07	Fiber, ANKOM (%)	0300	7.4620	0.11600	8.7726	1.6173	0.35558	17	-0.81	7%	0
004.07	Fiber, ANKOM (%)	0692	7.7000	0.20000	8.7726	1.6173	0.35558	17	-0.66	6%	0
004.07	Fiber, ANKOM (%)	0644	7.9820	0.00000	8.7726	1.6173	0.35558	17	-0.49	5%	0
004.07	Fiber, ANKOM (%)	0278	8.4000	0.00000	8.7726	1.6173	0.35558	17	-0.23	2%	0
004.07	Fiber, ANKOM (%)	0708	8.7000	0.04000	8.7726	1.6173	0.35558	17	-0.04	0%	0
004.07	Fiber, ANKOM (%)	0144	8.8600	0.08000	8.7726	1.6173	0.35558	17	0.05	0%	0
004.07	Fiber, ANKOM (%)	2109	9.2400	0.48000	8.7726	1.6173	0.35558	17	0.29	3%	0
004.07	Fiber, ANKOM (%)	0563	9.4913	0.53660	8.7726	1.6173	0.35558	17	0.44	4%	0
004.07	Fiber, ANKOM (%)	0536	9.7850	1.1100	8.7726	1.6173	0.35558	17	0.63	6%	0
004.07	Fiber, ANKOM (%)	0015	10.075	0.77000	8.7726	1.6173	0.35558	17	0.81	7%	0
004.07	Fiber, ANKOM (%)	0407	10.432	0.88420	8.7726	1.6173	0.35558	17	1.03	9%	0
004.07	Fiber, ANKOM (%)	0553	11.545	0.55000	8.7726	1.6173	0.35558	17	1.71	16%	0
004.07	Fiber, ANKOM (%)	0202	20.497	0.21800	8.7726	1.6173	0.35558	17	7.25	67%	0
004.11	Fiber, NIR (%)	0889	4.7900	0.82000				2			0
004.11	Fiber, NIR (%)	0852	13.900	0.00000				2			0
005.00	Ash, 2h @ 600°C (%)	0169	51.850	0.04000	57.850	1.3917	0.41386	69	-4.31	5%	0
005.00	Ash, 2h @ 600°C (%)	0918	52.250	0.14000	57.850	1.3917	0.41386	69	-4.02	5%	0
005.00	Ash, 2h @ 600°C (%)	0598	52.875	0.11000	57.850	1.3917	0.41386	69	-3.57	4%	0
005.00	Ash, 2h @ 600°C (%)	0964	53.171	1.2370	57.850	1.3917	0.41386	69	-3.36	4%	0
005.00	Ash, 2h @ 600°C (%)	2097	53.300	0.25110	57.850	1.3917	0.41386	69	-3.27	4%	0
005.00	Ash, 2h @ 600°C (%)	0539	54.700	0.50000	57.850	1.3917	0.41386	69	-2.26	3%	0
005.00	Ash, 2h @ 600°C (%)	0278	55.330	0.12000	57.850	1.3917	0.41386	69	-1.81	2%	0
005.00	Ash, 2h @ 600°C (%)	0596	55.330	0.88000	57.850	1.3917	0.41386	69	-1.81	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
005.00	Ash, 2h @ 600°C (%)	0650	55.765	1.0300	57.850	1.3917	0.41386	69	-1.50	2%	0
005.00	Ash, 2h @ 600°C (%)	0142	55.885	0.21000	57.850	1.3917	0.41386	69	-1.41	2%	0
005.00	Ash, 2h @ 600°C (%)	0520	56.280	2.5800	57.850	1.3917	0.41386	69	-1.13	1%	0
005.00	Ash, 2h @ 600°C (%)	0609	56.285	0.03000	57.850	1.3917	0.41386	69	-1.12	1%	0
005.00	Ash, 2h @ 600°C (%)	0953	56.540	1.0400	57.850	1.3917	0.41386	69	-0.94	1%	0
005.00	Ash, 2h @ 600°C (%)	0205	56.655	0.07000	57.850	1.3917	0.41386	69	-0.86	1%	0
005.00	Ash, 2h @ 600°C (%)	0226	56.700	0.52000	57.850	1.3917	0.41386	69	-0.83	1%	0
005.00	Ash, 2h @ 600°C (%)	0148	56.815	0.13000	57.850	1.3917	0.41386	69	-0.74	1%	0
005.00	Ash, 2h @ 600°C (%)	0164	57.000	0.90000	57.850	1.3917	0.41386	69	-0.61	1%	0
005.00	Ash, 2h @ 600°C (%)	2012	57.040	0.10000	57.850	1.3917	0.41386	69	-0.58	1%	0
005.00	Ash, 2h @ 600°C (%)	0511	57.130	0.02000	57.850	1.3917	0.41386	69	-0.52	1%	0
005.00	Ash, 2h @ 600°C (%)	2073	57.230	0.26000	57.850	1.3917	0.41386	69	-0.45	1%	0
005.00	Ash, 2h @ 600°C (%)	0541	57.270	0.06000	57.850	1.3917	0.41386	69	-0.42	1%	0
005.00	Ash, 2h @ 600°C (%)	2053	57.405	0.01000	57.850	1.3917	0.41386	69	-0.32	0%	0
005.00	Ash, 2h @ 600°C (%)	0643	57.485	0.13000	57.850	1.3917	0.41386	69	-0.26	0%	0
005.00	Ash, 2h @ 600°C (%)	0027	57.519	0.03400	57.850	1.3917	0.41386	69	-0.24	0%	0
005.00	Ash, 2h @ 600°C (%)	0505	57.535	0.11000	57.850	1.3917	0.41386	69	-0.23	0%	0
005.00	Ash, 2h @ 600°C (%)	0504	57.635	0.61000	57.850	1.3917	0.41386	69	-0.15	0%	0
005.00	Ash, 2h @ 600°C (%)	0622	57.688	0.03790	57.850	1.3917	0.41386	69	-0.12	0%	0
005.00	Ash, 2h @ 600°C (%)	0004	57.700	0.20000	57.850	1.3917	0.41386	69	-0.11	0%	0
005.00	Ash, 2h @ 600°C (%)	0171	57.740	0.42000	57.850	1.3917	0.41386	69	-0.08	0%	0
005.00	Ash, 2h @ 600°C (%)	2006	57.810	0.00000	57.850	1.3917	0.41386	69	-0.03	0%	0
005.00	Ash, 2h @ 600°C (%)	0589	57.850	0.54000	57.850	1.3917	0.41386	69	0.00	0%	0
005.00	Ash, 2h @ 600°C (%)	0144	57.855	0.47000	57.850	1.3917	0.41386	69	0.00	0%	0
005.00	Ash, 2h @ 600°C (%)	0693	57.863	0.20240	57.850	1.3917	0.41386	69	0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0175	57.900	0.20000	57.850	1.3917	0.41386	69	0.04	0%	0
005.00	Ash, 2h @ 600°C (%)	0208	57.950	0.90000	57.850	1.3917	0.41386	69	0.07	0%	0
005.00	Ash, 2h @ 600°C (%)	0358	58.095	0.29000	57.850	1.3917	0.41386	69	0.18	0%	0
005.00	Ash, 2h @ 600°C (%)	0682	58.100	0.00000	57.850	1.3917	0.41386	69	0.18	0%	0
005.00	Ash, 2h @ 600°C (%)	0001	58.145	0.05170	57.850	1.3917	0.41386	69	0.21	0%	0
005.00	Ash, 2h @ 600°C (%)	0033	58.150	0.30000	57.850	1.3917	0.41386	69	0.22	0%	0
005.00	Ash, 2h @ 600°C (%)	0407	58.180	0.06620	57.850	1.3917	0.41386	69	0.24	0%	0
005.00	Ash, 2h @ 600°C (%)	0045	58.200	0.20000	57.850	1.3917	0.41386	69	0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0186	58.200	0.40000	57.850	1.3917	0.41386	69	0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0229	58.265	0.45000	57.850	1.3917	0.41386	69	0.30	0%	0
005.00	Ash, 2h @ 600°C (%)	0529	58.290	0.38000	57.850	1.3917	0.41386	69	0.32	0%	0
005.00	Ash, 2h @ 600°C (%)	2150	58.380	0.02000	57.850	1.3917	0.41386	69	0.38	0%	0
005.00	Ash, 2h @ 600°C (%)	0353	58.415	0.15000	57.850	1.3917	0.41386	69	0.41	0%	0
005.00	Ash, 2h @ 600°C (%)	0848	58.600	0.02000	57.850	1.3917	0.41386	69	0.54	1%	0
005.00	Ash, 2h @ 600°C (%)	0553	58.620	0.88000	57.850	1.3917	0.41386	69	0.55	1%	0
005.00	Ash, 2h @ 600°C (%)	2022	58.665	0.11000	57.850	1.3917	0.41386	69	0.59	1%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
005.00	Ash, 2h @ 600°C (%)	0108	58.680	0.10000	57.850	1.3917	0.41386	69	0.60	1%	0
005.00	Ash, 2h @ 600°C (%)	0297	58.700	0.20000	57.850	1.3917	0.41386	69	0.61	1%	0
005.00	Ash, 2h @ 600°C (%)	0265	58.715	0.35000	57.850	1.3917	0.41386	69	0.62	1%	0
005.00	Ash, 2h @ 600°C (%)	0874	58.775	1.2100	57.850	1.3917	0.41386	69	0.66	1%	0
005.00	Ash, 2h @ 600°C (%)	0354	58.845	0.05000	57.850	1.3917	0.41386	69	0.71	1%	0
005.00	Ash, 2h @ 600°C (%)	0880	58.859	0.70250	57.850	1.3917	0.41386	69	0.72	1%	0
005.00	Ash, 2h @ 600°C (%)	0083	58.875	0.27000	57.850	1.3917	0.41386	69	0.74	1%	0
005.00	Ash, 2h @ 600°C (%)	0623	58.910	2.0370	57.850	1.3917	0.41386	69	0.76	1%	0
005.00	Ash, 2h @ 600°C (%)	0563	59.057	0.29890	57.850	1.3917	0.41386	69	0.87	1%	0
005.00	Ash, 2h @ 600°C (%)	0653	59.070	1.3200	57.850	1.3917	0.41386	69	0.88	1%	0
005.00	Ash, 2h @ 600°C (%)	0722	59.133	0.02590	57.850	1.3917	0.41386	69	0.92	1%	0
005.00	Ash, 2h @ 600°C (%)	0047	59.450	0.30000	57.850	1.3917	0.41386	69	1.15	1%	0
005.00	Ash, 2h @ 600°C (%)	0139	59.490	1.6000	57.850	1.3917	0.41386	69	1.18	1%	0
005.00	Ash, 2h @ 600°C (%)	2089	59.500	0.48000	57.850	1.3917	0.41386	69	1.19	1%	0
005.00	Ash, 2h @ 600°C (%)	0620	59.559	0.15750	57.850	1.3917	0.41386	69	1.23	1%	0
005.00	Ash, 2h @ 600°C (%)	0689	59.640	0.04000	57.850	1.3917	0.41386	69	1.29	2%	0
005.00	Ash, 2h @ 600°C (%)	0309	59.710	0.20000	57.850	1.3917	0.41386	69	1.34	2%	0
005.00	Ash, 2h @ 600°C (%)	0948	59.880	0.08000	57.850	1.3917	0.41386	69	1.46	2%	0
005.00	Ash, 2h @ 600°C (%)	0885	61.033	1.0840	57.850	1.3917	0.41386	69	2.29	3%	0
005.00	Ash, 2h @ 600°C (%)	0852	64.000	0.64000	57.850	1.3917	0.41386	69	4.42	5%	0
005.00	Ash, 2h @ 600°C (%)	0019	54.910	4.1800	57.850	1.3917	0.41386	69	-2.11	3%	1
005.00	Ash, 2h @ 600°C (%)	0956	58.800	3.2000	57.850	1.3917	0.41386	69	0.68	1%	1
005.02	Ash, LECO (%)	2075	58.370	0.16000				3			0
005.02	Ash, LECO (%)	0644	59.305	0.49000				3			0
005.02	Ash, LECO (%)	2161	59.390	0.14000				3			0
005.05	Ash, 3h @ 550°C (%)	0726	57.385	0.01000	59.537	0.84155	0.22651	27	-2.56	2%	0
005.05	Ash, 3h @ 550°C (%)	0066	57.790	0.22000	59.537	0.84155	0.22651	27	-2.08	1%	0
005.05	Ash, 3h @ 550°C (%)	0294	58.150	0.10000	59.537	0.84155	0.22651	27	-1.65	1%	0
005.05	Ash, 3h @ 550°C (%)	0849	58.540	0.14000	59.537	0.84155	0.22651	27	-1.18	1%	0
005.05	Ash, 3h @ 550°C (%)	0720	58.580	0.28000	59.537	0.84155	0.22651	27	-1.14	1%	0
005.05	Ash, 3h @ 550°C (%)	0939	58.625	1.1100	59.537	0.84155	0.22651	27	-1.08	1%	0
005.05	Ash, 3h @ 550°C (%)	2093	59.113	0.01400	59.537	0.84155	0.22651	27	-0.50	0%	0
005.05	Ash, 3h @ 550°C (%)	0955	59.200	0.20000	59.537	0.84155	0.22651	27	-0.40	0%	0
005.05	Ash, 3h @ 550°C (%)	0590	59.250	0.50000	59.537	0.84155	0.22651	27	-0.34	0%	0
005.05	Ash, 3h @ 550°C (%)	2149	59.290	0.42000	59.537	0.84155	0.22651	27	-0.29	0%	0
005.05	Ash, 3h @ 550°C (%)	0897	59.365	0.11000	59.537	0.84155	0.22651	27	-0.20	0%	0
005.05	Ash, 3h @ 550°C (%)	0893	59.600	0.00000	59.537	0.84155	0.22651	27	0.08	0%	0
005.05	Ash, 3h @ 550°C (%)	0685	59.615	0.03000	59.537	0.84155	0.22651	27	0.09	0%	0
005.05	Ash, 3h @ 550°C (%)	2144	59.650	0.50000	59.537	0.84155	0.22651	27	0.13	0%	0
005.05	Ash, 3h @ 550°C (%)	2109	59.730	0.72000	59.537	0.84155	0.22651	27	0.23	0%	0
005.05	Ash, 3h @ 550°C (%)	0878	59.775	0.09000	59.537	0.84155	0.22651	27	0.28	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
005.05	Ash, 3h @ 550°C (%)	0903	59.795	0.01000	59.537	0.84155	0.22651	27	0.31	0%	0
005.05	Ash, 3h @ 550°C (%)	2145	59.815	0.11000	59.537	0.84155	0.22651	27	0.33	0%	0
005.05	Ash, 3h @ 550°C (%)	2009	59.983	0.13180	59.537	0.84155	0.22651	27	0.53	0%	0
005.05	Ash, 3h @ 550°C (%)	0895	60.015	0.01000	59.537	0.84155	0.22651	27	0.57	0%	0
005.05	Ash, 3h @ 550°C (%)	0692	60.050	0.10000	59.537	0.84155	0.22651	27	0.61	0%	0
005.05	Ash, 3h @ 550°C (%)	0610	60.110	0.30000	59.537	0.84155	0.22651	27	0.68	0%	0
005.05	Ash, 3h @ 550°C (%)	2146	60.260	0.04000	59.537	0.84155	0.22651	27	0.86	1%	0
005.05	Ash, 3h @ 550°C (%)	0889	60.320	0.08000	59.537	0.84155	0.22651	27	0.93	1%	0
005.05	Ash, 3h @ 550°C (%)	0921	60.390	0.00000	59.537	0.84155	0.22651	27	1.01	1%	0
005.05	Ash, 3h @ 550°C (%)	0190	61.575	0.83000	59.537	0.84155	0.22651	27	2.42	2%	0
005.05	Ash, 3h @ 550°C (%)	2129	63.970	0.06000	59.537	0.84155	0.22651	27	5.27	4%	0
005.05	Ash, 3h @ 550°C (%)	0003	56.550	1.3000	59.537	0.84155	0.22651	27	-3.55	3%	1
005.11	Ash, NIR (%)	0889	55.385	0.87000				1			0
005.99	Ash, Miscellaneous (%)	0536	57.750	0.18000	59.201	0.90542	0.37338	8	-1.60	1%	0
005.99	Ash, Miscellaneous (%)	0728	58.660	0.38000	59.201	0.90542	0.37338	8	-0.60	0%	0
005.99	Ash, Miscellaneous (%)	0884	58.900	0.20000	59.201	0.90542	0.37338	8	-0.33	0%	0
005.99	Ash, Miscellaneous (%)	2004	59.000	0.60000	59.201	0.90542	0.37338	8	-0.22	0%	0
005.99	Ash, Miscellaneous (%)	0202	59.383	0.34700	59.201	0.90542	0.37338	8	0.20	0%	0
005.99	Ash, Miscellaneous (%)	0914	59.565	0.47000	59.201	0.90542	0.37338	8	0.40	0%	0
005.99	Ash, Miscellaneous (%)	0910	59.700	0.20000	59.201	0.90542	0.37338	8	0.55	0%	0
005.99	Ash, Miscellaneous (%)	0676	61.095	0.61000	59.201	0.90542	0.37338	8	2.09	2%	0
005.99	Ash, Miscellaneous (%)	2055	52.000	2.0000	59.201	0.90542	0.37338	8	-7.95	6%	1
006.01	Total sugars, Mod. Fehling Soln (%)	0407	5.4285	0.00700				1			0
006.99	Total sugars, Miscellaneous (%)	0956	6.1000	0.00000				1			0
008.02	Fiber, Acid Detergent (%)	0353	9.3350	0.09000				3			0
008.02	Fiber, Acid Detergent (%)	0609	9.5950	0.31000				3			0
008.02	Fiber, Acid Detergent (%)	0309	10.054	0.02710				3			0
008.05	Fiber, Acid Detergent-Hach (%)	0265	11.300	1.2000				1			0
008.08	Fiber, Acid Detergent, ANKOM (%)	0889	1.0400	0.02000	10.006	0.60420	0.33590	11	-14.84	45%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0297	9.3000	0.84000	10.006	0.60420	0.33590	11	-1.17	4%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	2004	9.6800	0.10000	10.006	0.60420	0.33590	11	-0.54	2%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0358	9.7400	0.58000	10.006	0.60420	0.33590	11	-0.44	1%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0407	9.9124	0.00100	10.006	0.60420	0.33590	11	-0.15	0%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0278	10.100	0.20000	10.006	0.60420	0.33590	11	0.16	0%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0037	10.185	0.05000	10.006	0.60420	0.33590	11	0.30	1%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0693	10.201	0.67770	10.006	0.60420	0.33590	11	0.32	1%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0164	10.400	0.20000	10.006	0.60420	0.33590	11	0.65	2%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0918	10.535	0.82620	10.006	0.60420	0.33590	11	0.88	3%	0
008.08	Fiber, Acid Detergent, ANKOM (%)	0956	11.300	0.20000	10.006	0.60420	0.33590	11	2.14	6%	0
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	0609	12.070	0.10000				3			0
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	0309	13.527	0.65490				3			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	0353	13.970	0.76000				3			0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0889	0.04500	0.01000	11.675	0.90996	0.42084	12	-12.78	50%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0358	10.690	0.18000	11.675	0.90996	0.42084	12	-1.08	4%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	2004	11.000	0.20000	11.675	0.90996	0.42084	12	-0.74	3%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0956	11.300	1.4000	11.675	0.90996	0.42084	12	-0.41	2%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0164	11.350	0.30000	11.675	0.90996	0.42084	12	-0.36	1%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0278	11.450	0.10000	11.675	0.90996	0.42084	12	-0.25	1%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0918	11.857	0.68340	11.675	0.90996	0.42084	12	0.20	1%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0693	11.966	0.77770	11.675	0.90996	0.42084	12	0.32	1%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0407	12.058	0.54900	11.675	0.90996	0.42084	12	0.42	2%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0265	12.600	0.00000	11.675	0.90996	0.42084	12	1.02	4%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0297	12.680	0.04000	11.675	0.90996	0.42084	12	1.10	4%	0
009.09	Fiber, Neutral Detergent, ANKOM (%)	0037	12.845	0.81000	11.675	0.90996	0.42084	12	1.29	5%	0
009.99	Fiber, Neutral Det Miscellaneous (%)	0889	23.595	1.5300				1			0
010.03	Moisture, Karl-Fischer (%)	0843	3.6000	0.06000				2			0
010.03	Moisture, Karl-Fischer (%)	0164	3.7100	0.02000				2			0
010.11	Moisture, NIR (%)	0889	3.2900	0.08000				2			0
010.11	Moisture, NIR (%)	0852	6.6250	0.27000				2			0
010.99	Moisture, Miscellaneous (%)	0964	3.3415	0.18100	4.1360	0.51950	0.12628	18	-1.53	10%	0
010.99	Moisture, Miscellaneous (%)	0884	3.6500	0.10000	4.1360	0.51950	0.12628	18	-0.94	6%	0
010.99	Moisture, Miscellaneous (%)	2043	3.6900	0.68000	4.1360	0.51950	0.12628	18	-0.86	5%	0
010.99	Moisture, Miscellaneous (%)	0692	3.7500	0.10000	4.1360	0.51950	0.12628	18	-0.74	5%	0
010.99	Moisture, Miscellaneous (%)	0917	3.7500	0.10000	4.1360	0.51950	0.12628	18	-0.74	5%	0
010.99	Moisture, Miscellaneous (%)	2089	3.9400	0.26000	4.1360	0.51950	0.12628	18	-0.38	2%	0
010.99	Moisture, Miscellaneous (%)	0948	3.9550	0.01000	4.1360	0.51950	0.12628	18	-0.35	2%	0
010.99	Moisture, Miscellaneous (%)	0722	4.0361	0.03200	4.1360	0.51950	0.12628	18	-0.19	1%	0
010.99	Moisture, Miscellaneous (%)	0726	4.0550	0.03000	4.1360	0.51950	0.12628	18	-0.16	1%	0
010.99	Moisture, Miscellaneous (%)	2129	4.1150	0.45000	4.1360	0.51950	0.12628	18	-0.04	0%	0
010.99	Moisture, Miscellaneous (%)	0921	4.1500	0.00000	4.1360	0.51950	0.12628	18	0.03	0%	0
010.99	Moisture, Miscellaneous (%)	2004	4.1550	0.01000	4.1360	0.51950	0.12628	18	0.04	0%	0
010.99	Moisture, Miscellaneous (%)	0190	4.1900	0.10000	4.1360	0.51950	0.12628	18	0.10	1%	0
010.99	Moisture, Miscellaneous (%)	2150	4.2200	0.02000	4.1360	0.51950	0.12628	18	0.16	1%	0
010.99	Moisture, Miscellaneous (%)	2105	4.6900	0.12000	4.1360	0.51950	0.12628	18	1.07	7%	0
010.99	Moisture, Miscellaneous (%)	2076	5.0900	0.02000	4.1360	0.51950	0.12628	18	1.84	12%	0
010.99	Moisture, Miscellaneous (%)	2127	5.7350	0.03000	4.1360	0.51950	0.12628	18	3.08	19%	0
010.99	Moisture, Miscellaneous (%)	0405	9.3550	0.03000	4.1360	0.51950	0.12628	18	10.05	63%	0
010.99	Moisture, Miscellaneous (%)	0939	4.3150	0.87000	4.1360	0.51950	0.12628	18	0.34	2%	1
011.01	Loss on Drying, 135°C 2hr (%)	2022	4.1700	0.04000	5.5750	0.27348	0.10834	44	-5.14	13%	0
011.01	Loss on Drying, 135°C 2hr (%)	0874	4.4800	0.04000	5.5750	0.27348	0.10834	44	-4.00	10%	0
011.01	Loss on Drying, 135°C 2hr (%)	0536	4.7300	0.18000	5.5750	0.27348	0.10834	44	-3.09	8%	0
011.01	Loss on Drying, 135°C 2hr (%)	0563	4.8073	0.29450	5.5750	0.27348	0.10834	44	-2.81	7%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
011.01	Loss on Drying, 135°C 2hr (%)	0643	5.0000	0.00000	5.5750	0.27348	0.10834	44	-2.10	5%	0
011.01	Loss on Drying, 135°C 2hr (%)	0202	5.2755	0.02500	5.5750	0.27348	0.10834	44	-1.10	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	0294	5.3000	0.00000	5.5750	0.27348	0.10834	44	-1.01	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0682	5.3300	0.00000	5.5750	0.27348	0.10834	44	-0.90	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0953	5.3450	0.09000	5.5750	0.27348	0.10834	44	-0.84	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0208	5.3500	0.02000	5.5750	0.27348	0.10834	44	-0.82	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0226	5.3750	0.25000	5.5750	0.27348	0.10834	44	-0.73	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0520	5.4000	0.20000	5.5750	0.27348	0.10834	44	-0.64	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0229	5.4250	0.01000	5.5750	0.27348	0.10834	44	-0.55	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0685	5.4350	0.03000	5.5750	0.27348	0.10834	44	-0.51	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0066	5.4400	0.06000	5.5750	0.27348	0.10834	44	-0.49	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0620	5.4732	0.22220	5.5750	0.27348	0.10834	44	-0.37	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0033	5.4750	0.07000	5.5750	0.27348	0.10834	44	-0.37	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0553	5.4900	0.30000	5.5750	0.27348	0.10834	44	-0.31	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0144	5.5400	0.12000	5.5750	0.27348	0.10834	44	-0.13	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0047	5.5500	0.10000	5.5750	0.27348	0.10834	44	-0.09	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0510	5.6000	0.20000	5.5750	0.27348	0.10834	44	0.09	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0880	5.6003	0.27320	5.5750	0.27348	0.10834	44	0.09	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0108	5.6300	0.08000	5.5750	0.27348	0.10834	44	0.20	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0511	5.6400	0.08000	5.5750	0.27348	0.10834	44	0.24	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0539	5.6600	0.26000	5.5750	0.27348	0.10834	44	0.31	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0541	5.6600	0.08000	5.5750	0.27348	0.10834	44	0.31	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0859	5.6760	0.00600	5.5750	0.27348	0.10834	44	0.37	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0164	5.6950	0.23000	5.5750	0.27348	0.10834	44	0.44	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0148	5.7050	0.07000	5.5750	0.27348	0.10834	44	0.48	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0171	5.7100	0.12000	5.5750	0.27348	0.10834	44	0.49	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0650	5.7150	0.07000	5.5750	0.27348	0.10834	44	0.51	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0407	5.7164	0.13270	5.5750	0.27348	0.10834	44	0.52	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0622	5.7332	0.10030	5.5750	0.27348	0.10834	44	0.58	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0265	5.7500	0.10000	5.5750	0.27348	0.10834	44	0.64	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	2073	5.7550	0.01000	5.5750	0.27348	0.10834	44	0.66	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0309	5.7650	0.09000	5.5750	0.27348	0.10834	44	0.69	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0589	5.7950	0.17000	5.5750	0.27348	0.10834	44	0.80	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0205	5.8100	0.12000	5.5750	0.27348	0.10834	44	0.86	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0848	5.8750	0.15000	5.5750	0.27348	0.10834	44	1.10	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	0358	5.9200	0.06000	5.5750	0.27348	0.10834	44	1.26	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	2006	5.9400	0.04000	5.5750	0.27348	0.10834	44	1.33	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	0722	5.9511	0.03430	5.5750	0.27348	0.10834	44	1.38	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	2097	6.0153	0.13490	5.5750	0.27348	0.10834	44	1.61	4%	0
011.01	Loss on Drying, 135°C 2hr (%)	0623	6.1630	0.10400	5.5750	0.27348	0.10834	44	2.15	5%	0
011.02	Loss on Drying, 130°C for 2 hours (%)	0942	4.8450	0.65000				3			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
011.02	Loss on Drying, 130°C for 2 hours (%)	2075	5.0600	0.06000				3			0
011.02	Loss on Drying, 130°C for 2 hours (%)	0843	5.7150	0.21000				3			0
011.99	Loss on Drying, High Temp. Methods Miscellaneous	0541	5.1250	0.01000				2			0
011.99	Loss on Drying, High Temp. Methods Miscellaneous	0852	6.5100	0.14000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	2006	0.79000	0.16000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	0164	1.3500	0.10000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	0609	0.00000	0.00000				2			4
012.01	Starch, Megazyme (%)	0956	1.2000	0.00000	2.6707	1.3424	0.26135	6	-1.10	28%	0
012.01	Starch, Megazyme (%)	2004	1.5000	0.08000	2.6707	1.3424	0.26135	6	-0.87	22%	0
012.01	Starch, Megazyme (%)	0693	2.4183	0.01410	2.6707	1.3424	0.26135	6	-0.19	5%	0
012.01	Starch, Megazyme (%)	0164	3.0500	0.70000	2.6707	1.3424	0.26135	6	0.28	7%	0
012.01	Starch, Megazyme (%)	0265	3.7000	0.00000	2.6707	1.3424	0.26135	6	0.77	19%	0
012.01	Starch, Megazyme (%)	0918	4.1560	0.77400	2.6707	1.3424	0.26135	6	1.11	28%	0
012.03	Starch, Enzymatic (%)	0889	0.24500	0.01000				2			0
012.03	Starch, Enzymatic (%)	0297	1.9700	0.00000				2			0
012.04	Starch, YSI Analyzer (%)	0278	1.1000	0.20000				1			0
012.11	Starch, NIR (%)	0889	0.84000	0.66000				1			0
013.00	Fat, Acid hydrolysis (%)	0884	0.80000	0.00000	1.1371	0.38505	0.07895	6	-0.88	15%	0
013.00	Fat, Acid hydrolysis (%)	2004	0.85000	0.10000	1.1371	0.38505	0.07895	6	-0.75	13%	0
013.00	Fat, Acid hydrolysis (%)	0309	0.99735	0.03470	1.1371	0.38505	0.07895	6	-0.36	6%	0
013.00	Fat, Acid hydrolysis (%)	0541	1.0650	0.09000	1.1371	0.38505	0.07895	6	-0.19	3%	0
013.00	Fat, Acid hydrolysis (%)	0202	1.5005	0.18900	1.1371	0.38505	0.07895	6	0.94	16%	0
013.00	Fat, Acid hydrolysis (%)	0139	1.6100	0.06000	1.1371	0.38505	0.07895	6	1.23	21%	0
013.00	Fat, Acid hydrolysis (%)	2076	2.0750	0.63000	1.1371	0.38505	0.07895	6	2.44	41%	1
013.02	Fat, Mojonnier, Bak Ext (%)	0874	0.66000	0.12000	0.94432	0.23728	0.13000	7	-1.20	15%	0
013.02	Fat, Mojonnier, Bak Ext (%)	0553	0.80000	0.14000	0.94432	0.23728	0.13000	7	-0.61	8%	0
013.02	Fat, Mojonnier, Bak Ext (%)	0164	0.84500	0.01000	0.94432	0.23728	0.13000	7	-0.42	5%	0
013.02	Fat, Mojonnier, Bak Ext (%)	0650	0.94500	0.03000	0.94432	0.23728	0.13000	7	0.00	0%	0
013.02	Fat, Mojonnier, Bak Ext (%)	2150	0.96000	0.20000	0.94432	0.23728	0.13000	7	0.07	1%	0
013.02	Fat, Mojonnier, Bak Ext (%)	0682	1.1000	0.00000	0.94432	0.23728	0.13000	7	0.66	8%	0
013.02	Fat, Mojonnier, Bak Ext (%)	2073	1.3850	0.41000	0.94432	0.23728	0.13000	7	1.86	23%	0
013.08	Fat, Roese-Gottlieb Modified (%)	0047	0.00000	0.00000				0			4
013.10	Fat, Soxtec-Acid Hydrolysis (%)	2006	1.9550	0.05000				2			0
013.10	Fat, Soxtec-Acid Hydrolysis (%)	0353	2.3200	0.06000				2			0
013.13	Fat, Ankom- Acid Hydrolysis (%)	0843	1.0400	0.36000				2			0
013.13	Fat, Ankom- Acid Hydrolysis (%)	0265	2.7000	0.40000				2			0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0049	1,621.5	99.760	1,721.5	100.80	81.190	4	-0.99	3%	0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0171	1,695.0	2.0000	1,721.5	100.80	81.190	4	-0.26	1%	0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0520	1,708.0	190.00	1,721.5	100.80	81.190	4	-0.13	0%	0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0164	1,861.5	33.000	1,721.5	100.80	81.190	4	1.39	4%	0
015.42	Aluminum, ICP, Open vessel (mg / kg (ppm))	0560	1,816.8	2.7000				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0918	1,378.6	11.764	1,598.7	178.82	44.461	6	-1.23	7%	0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0353	1,556.0	54.000	1,598.7	178.82	44.461	6	-0.24	1%	0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0510	1,565.0	10.000	1,598.7	178.82	44.461	6	-0.19	1%	0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0297	1,595.5	1.0000	1,598.7	178.82	44.461	6	-0.02	0%	0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0345	1,630.0	120.00	1,598.7	178.82	44.461	6	0.18	1%	0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0169	2,255.0	70.000	1,598.7	178.82	44.461	6	3.67	21%	0
015.52	Aluminum, ICP-MS, Open vessel (mg / kg (ppm))	0186	2,039.5	19.000				1			0
015.53	Aluminum, ICP-MS, Microwave (mg / kg (ppm))	0413	1,709.0	186.00				2			0
015.53	Aluminum, ICP-MS, Microwave (mg / kg (ppm))	0553	1,925.0	70.000				2			0
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	0358	11.975	0.89000				3			0
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	0049	16.195	0.69000				3			0
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	0229	35.780	3.1600				3			0
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	0045	10.600	0.40000	14.612	6.0333	0.36885	4	-1.10	4%	0
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	0560	11.835	0.79000	14.612	6.0333	0.36885	4	0.23	1%	0
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	0693	12.423	0.10540	14.612	6.0333	0.36885	4	0.86	3%	0
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	0294	23.590	0.18000	14.612	6.0333	0.36885	4	12.86	52%	0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0297	9.0000	0.00000	15.946	5.9702	0.55600	5	-1.16	22%	0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0345	12.100	0.60000	15.946	5.9702	0.55600	5	-0.64	12%	0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0918	14.630	0.18000	15.946	5.9702	0.55600	5	-0.22	4%	0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0353	20.500	1.0000	15.946	5.9702	0.55600	5	0.76	14%	0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0510	23.500	1.0000	15.946	5.9702	0.55600	5	1.27	24%	0
017.53	Boron, ICP-MS, Microwave (mg / kg (ppm))	0413	9.9500	1.3000				1			0
019.00	Calcium, Ox-Mn04 Vol. (%)	0620	11.083	0.16840	14.988	0.27514	0.10561	12	-14.19	13%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	2006	14.233	0.02600	14.988	0.27514	0.10561	12	-2.75	3%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0893	14.900	0.00000	14.988	0.27514	0.10561	12	-0.32	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	2109	14.900	0.18000	14.988	0.27514	0.10561	12	-0.32	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0897	14.930	0.08000	14.988	0.27514	0.10561	12	-0.21	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	2093	15.000	0.06000	14.988	0.27514	0.10561	12	0.04	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0895	15.015	0.01000	14.988	0.27514	0.10561	12	0.10	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0903	15.035	0.01000	14.988	0.27514	0.10561	12	0.17	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	2144	15.105	0.03000	14.988	0.27514	0.10561	12	0.42	0%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0651	15.187	0.19800	14.988	0.27514	0.10561	12	0.72	1%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0622	15.236	0.25490	14.988	0.27514	0.10561	12	0.90	1%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0043	15.875	0.25000	14.988	0.27514	0.10561	12	3.22	3%	0
019.00	Calcium, Ox-Mn04 Vol. (%)	0623	13.496	0.73100	14.988	0.27514	0.10561	12	-5.43	5%	1
019.08	Calcium, EDTA (%)	0849	15.140	0.08000	16.024	1.4612	0.20864	7	-0.61	3%	0
019.08	Calcium, EDTA (%)	0689	15.150	0.06000	16.024	1.4612	0.20864	7	-0.60	3%	0
019.08	Calcium, EDTA (%)	0940	15.160	0.20000	16.024	1.4612	0.20864	7	-0.59	3%	0
019.08	Calcium, EDTA (%)	0885	15.272	0.49620	16.024	1.4612	0.20864	7	-0.51	2%	0
019.08	Calcium, EDTA (%)	2009	15.721	0.08430	16.024	1.4612	0.20864	7	-0.21	1%	0
019.08	Calcium, EDTA (%)	0629	17.510	0.04000	16.024	1.4612	0.20864	7	1.02	5%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
019.08	Calcium, EDTA (%)	0852	26.250	0.50000	16.024	1.4612	0.20864	7	7.00	32%	0
019.09	Calcium, Ion-selective electrode (%)	2006	14.228	0.44400				1			0
019.31	Calcium, AAS, Dry ash (%)	0529	12.360	0.02000	14.984	0.88900	0.42090	23	-2.95	9%	0
019.31	Calcium, AAS, Dry ash (%)	0948	12.674	0.02500	14.984	0.88900	0.42090	23	-2.60	8%	0
019.31	Calcium, AAS, Dry ash (%)	0536	13.710	0.42000	14.984	0.88900	0.42090	23	-1.43	4%	0
019.31	Calcium, AAS, Dry ash (%)	0563	13.883	0.63970	14.984	0.88900	0.42090	23	-1.24	4%	0
019.31	Calcium, AAS, Dry ash (%)	0596	14.020	0.26000	14.984	0.88900	0.42090	23	-1.08	3%	0
019.31	Calcium, AAS, Dry ash (%)	0650	14.505	1.4900	14.984	0.88900	0.42090	23	-0.54	2%	0
019.31	Calcium, AAS, Dry ash (%)	2097	14.767	0.29050	14.984	0.88900	0.42090	23	-0.24	1%	0
019.31	Calcium, AAS, Dry ash (%)	0653	14.770	0.36000	14.984	0.88900	0.42090	23	-0.24	1%	0
019.31	Calcium, AAS, Dry ash (%)	0208	14.861	1.7110	14.984	0.88900	0.42090	23	-0.14	0%	0
019.31	Calcium, AAS, Dry ash (%)	0505	14.955	0.01000	14.984	0.88900	0.42090	23	-0.03	0%	0
019.31	Calcium, AAS, Dry ash (%)	0939	15.040	1.3200	14.984	0.88900	0.42090	23	0.06	0%	0
019.31	Calcium, AAS, Dry ash (%)	0722	15.120	0.15090	14.984	0.88900	0.42090	23	0.15	0%	0
019.31	Calcium, AAS, Dry ash (%)	0884	15.125	0.89000	14.984	0.88900	0.42090	23	0.16	0%	0
019.31	Calcium, AAS, Dry ash (%)	0142	15.169	0.06350	14.984	0.88900	0.42090	23	0.21	1%	0
019.31	Calcium, AAS, Dry ash (%)	0354	15.195	0.05000	14.984	0.88900	0.42090	23	0.24	1%	0
019.31	Calcium, AAS, Dry ash (%)	0108	15.360	0.60000	14.984	0.88900	0.42090	23	0.42	1%	0
019.31	Calcium, AAS, Dry ash (%)	0175	15.380	0.30000	14.984	0.88900	0.42090	23	0.45	1%	0
019.31	Calcium, AAS, Dry ash (%)	0689	15.640	0.28000	14.984	0.88900	0.42090	23	0.74	2%	0
019.31	Calcium, AAS, Dry ash (%)	0878	15.750	0.10000	14.984	0.88900	0.42090	23	0.86	3%	0
019.31	Calcium, AAS, Dry ash (%)	0014	15.800	0.20000	14.984	0.88900	0.42090	23	0.92	3%	0
019.31	Calcium, AAS, Dry ash (%)	2022	15.880	0.10000	14.984	0.88900	0.42090	23	1.01	3%	0
019.31	Calcium, AAS, Dry ash (%)	0874	16.200	0.20000	14.984	0.88900	0.42090	23	1.37	4%	0
019.31	Calcium, AAS, Dry ash (%)	2161	16.200	0.20000	14.984	0.88900	0.42090	23	1.37	4%	0
019.31	Calcium, AAS, Dry ash (%)	0921	1.7224	0.34050	14.984	0.88900	0.42090	23	-14.92	44%	2
019.32	Calcium, AAS, Open vessel (%)	0169	11.700	0.60000	16.014	3.2862	0.48250	4	-1.31	13%	0
019.32	Calcium, AAS, Open vessel (%)	0612	16.280	0.74000	16.014	3.2862	0.48250	4	0.08	1%	0
019.32	Calcium, AAS, Open vessel (%)	0504	16.375	0.39000	16.014	3.2862	0.48250	4	0.11	1%	0
019.32	Calcium, AAS, Open vessel (%)	0609	19.700	0.20000	16.014	3.2862	0.48250	4	1.12	12%	0
019.33	Calcium, AAS, Microwave (%)	0300	14.015	0.27000				2			0
019.33	Calcium, AAS, Microwave (%)	0010	16.285	0.05000				2			0
019.41	Calcium, ICP, Dry ash (%)	0720	11.745	0.57000	15.414	1.0547	0.30489	23	-3.48	12%	0
019.41	Calcium, ICP, Dry ash (%)	0358	14.230	0.68000	15.414	1.0547	0.30489	23	-1.12	4%	0
019.41	Calcium, ICP, Dry ash (%)	0144	14.340	0.42000	15.414	1.0547	0.30489	23	-1.02	3%	0
019.41	Calcium, ICP, Dry ash (%)	0051	14.391	0.63540	15.414	1.0547	0.30489	23	-0.97	3%	0
019.41	Calcium, ICP, Dry ash (%)	0208	14.555	0.81000	15.414	1.0547	0.30489	23	-0.81	3%	0
019.41	Calcium, ICP, Dry ash (%)	0171	14.850	0.10000	15.414	1.0547	0.30489	23	-0.53	2%	0
019.41	Calcium, ICP, Dry ash (%)	0848	14.855	0.09000	15.414	1.0547	0.30489	23	-0.53	2%	0
019.41	Calcium, ICP, Dry ash (%)	0910	14.855	1.6300	15.414	1.0547	0.30489	23	-0.53	2%	0
019.41	Calcium, ICP, Dry ash (%)	0139	14.860	0.01000	15.414	1.0547	0.30489	23	-0.52	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
019.41	Calcium, ICP, Dry ash (%)	2145	15.050	0.10000	15.414	1.0547	0.30489	23	-0.34	1%	0
019.41	Calcium, ICP, Dry ash (%)	0019	15.095	0.19000	15.414	1.0547	0.30489	23	-0.30	1%	0
019.41	Calcium, ICP, Dry ash (%)	0164	15.200	0.00000	15.414	1.0547	0.30489	23	-0.20	1%	0
019.41	Calcium, ICP, Dry ash (%)	0619	15.350	0.30000	15.414	1.0547	0.30489	23	-0.06	0%	0
019.41	Calcium, ICP, Dry ash (%)	0049	15.535	0.33000	15.414	1.0547	0.30489	23	0.12	0%	0
019.41	Calcium, ICP, Dry ash (%)	0074	15.685	0.07000	15.414	1.0547	0.30489	23	0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0148	15.830	0.02000	15.414	1.0547	0.30489	23	0.39	1%	0
019.41	Calcium, ICP, Dry ash (%)	0003	16.050	0.10000	15.414	1.0547	0.30489	23	0.60	2%	0
019.41	Calcium, ICP, Dry ash (%)	0229	16.125	0.27000	15.414	1.0547	0.30489	23	0.67	2%	0
019.41	Calcium, ICP, Dry ash (%)	0598	16.305	0.03000	15.414	1.0547	0.30489	23	0.85	3%	0
019.41	Calcium, ICP, Dry ash (%)	0511	16.635	0.23000	15.414	1.0547	0.30489	23	1.16	4%	0
019.41	Calcium, ICP, Dry ash (%)	0226	16.895	0.09000	15.414	1.0547	0.30489	23	1.40	5%	0
019.41	Calcium, ICP, Dry ash (%)	0405	19.475	0.05000	15.414	1.0547	0.30489	23	3.85	13%	0
019.41	Calcium, ICP, Dry ash (%)	0407	22.863	0.28700	15.414	1.0547	0.30489	23	7.06	24%	0
019.41	Calcium, ICP, Dry ash (%)	0520	14.650	1.8000	15.414	1.0547	0.30489	23	-0.72	2%	1
019.42	Calcium, ICP, Open vessel (%)	0357	12.739	0.95930	15.533	0.98182	0.32737	18	-2.85	9%	0
019.42	Calcium, ICP, Open vessel (%)	0037	14.140	0.28000	15.533	0.98182	0.32737	18	-1.42	4%	0
019.42	Calcium, ICP, Open vessel (%)	0187	14.205	0.15000	15.533	0.98182	0.32737	18	-1.35	4%	0
019.42	Calcium, ICP, Open vessel (%)	2012	14.830	0.06000	15.533	0.98182	0.32737	18	-0.72	2%	0
019.42	Calcium, ICP, Open vessel (%)	2129	14.955	0.39000	15.533	0.98182	0.32737	18	-0.59	2%	0
019.42	Calcium, ICP, Open vessel (%)	0366	15.350	0.70000	15.533	0.98182	0.32737	18	-0.19	1%	0
019.42	Calcium, ICP, Open vessel (%)	0278	15.435	0.13000	15.533	0.98182	0.32737	18	-0.10	0%	0
019.42	Calcium, ICP, Open vessel (%)	0042	15.450	0.90000	15.533	0.98182	0.32737	18	-0.08	0%	0
019.42	Calcium, ICP, Open vessel (%)	0294	15.470	0.08000	15.533	0.98182	0.32737	18	-0.06	0%	0
019.42	Calcium, ICP, Open vessel (%)	0560	15.497	0.04460	15.533	0.98182	0.32737	18	-0.04	0%	0
019.42	Calcium, ICP, Open vessel (%)	0205	15.725	0.35000	15.533	0.98182	0.32737	18	0.20	1%	0
019.42	Calcium, ICP, Open vessel (%)	0693	15.765	0.36880	15.533	0.98182	0.32737	18	0.24	1%	0
019.42	Calcium, ICP, Open vessel (%)	0265	15.970	0.16000	15.533	0.98182	0.32737	18	0.45	1%	0
019.42	Calcium, ICP, Open vessel (%)	0045	16.000	0.20000	15.533	0.98182	0.32737	18	0.48	2%	0
019.42	Calcium, ICP, Open vessel (%)	0692	16.460	0.66000	15.533	0.98182	0.32737	18	0.94	3%	0
019.42	Calcium, ICP, Open vessel (%)	0504	16.510	0.24000	15.533	0.98182	0.32737	18	1.00	3%	0
019.42	Calcium, ICP, Open vessel (%)	0190	16.760	0.22000	15.533	0.98182	0.32737	18	1.25	4%	0
019.42	Calcium, ICP, Open vessel (%)	0726	17.020	0.00000	15.533	0.98182	0.32737	18	1.51	5%	0
019.42	Calcium, ICP, Open vessel (%)	0026	2.1750	0.17000	15.533	0.98182	0.32737	18	-13.61	43%	2
019.43	Calcium, ICP, Microwave (%)	0202	12.720	0.16400	15.249	0.90422	0.15732	21	-2.80	8%	0
019.43	Calcium, ICP, Microwave (%)	0297	13.150	0.04000	15.249	0.90422	0.15732	21	-2.32	7%	0
019.43	Calcium, ICP, Microwave (%)	0675	13.970	0.24000	15.249	0.90422	0.15732	21	-1.41	4%	0
019.43	Calcium, ICP, Microwave (%)	0043	14.500	0.16000	15.249	0.90422	0.15732	21	-0.83	2%	0
019.43	Calcium, ICP, Microwave (%)	0510	14.530	0.08000	15.249	0.90422	0.15732	21	-0.80	2%	0
019.43	Calcium, ICP, Microwave (%)	0098	14.805	0.01000	15.249	0.90422	0.15732	21	-0.49	1%	0
019.43	Calcium, ICP, Microwave (%)	0918	14.933	0.23100	15.249	0.90422	0.15732	21	-0.35	1%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
019.43	Calcium, ICP, Microwave (%)	0345	14.960	0.18000	15.249	0.90422	0.15732	21	-0.32	1%	0
019.43	Calcium, ICP, Microwave (%)	0964	14.976	0.28880	15.249	0.90422	0.15732	21	-0.30	1%	0
019.43	Calcium, ICP, Microwave (%)	0682	15.000	0.00000	15.249	0.90422	0.15732	21	-0.28	1%	0
019.43	Calcium, ICP, Microwave (%)	0083	15.365	0.17000	15.249	0.90422	0.15732	21	0.13	0%	0
019.43	Calcium, ICP, Microwave (%)	0668	15.400	0.40000	15.249	0.90422	0.15732	21	0.17	0%	0
019.43	Calcium, ICP, Microwave (%)	0968	15.668	0.09600	15.249	0.90422	0.15732	21	0.46	1%	0
019.43	Calcium, ICP, Microwave (%)	0027	15.736	0.27900	15.249	0.90422	0.15732	21	0.54	2%	0
019.43	Calcium, ICP, Microwave (%)	0610	15.745	0.05000	15.249	0.90422	0.15732	21	0.55	2%	0
019.43	Calcium, ICP, Microwave (%)	2089	15.940	0.16000	15.249	0.90422	0.15732	21	0.76	2%	0
019.43	Calcium, ICP, Microwave (%)	0353	15.955	0.11000	15.249	0.90422	0.15732	21	0.78	2%	0
019.43	Calcium, ICP, Microwave (%)	0028	16.055	0.05000	15.249	0.90422	0.15732	21	0.89	3%	0
019.43	Calcium, ICP, Microwave (%)	0006	16.090	0.42000	15.249	0.90422	0.15732	21	0.93	3%	0
019.43	Calcium, ICP, Microwave (%)	0034	16.219	0.17500	15.249	0.90422	0.15732	21	1.07	3%	0
019.43	Calcium, ICP, Microwave (%)	0629	17.000	0.00000	15.249	0.90422	0.15732	21	1.94	6%	0
019.43	Calcium, ICP, Microwave (%)	0033	14.950	0.90000	15.249	0.90422	0.15732	21	-0.33	1%	1
019.44	Calcium, ICP, Dry ash (%)	2004	14.800	0.40000				2			0
019.44	Calcium, ICP, Dry ash (%)	0955	15.050	0.30000				2			0
019.51	Calcium, ICP-MS, Dry ash (%)	2146	16.010	1.0200				1			0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	15.340	0.14000				1			0
019.53	Calcium, ICP-MS, Microwave (%)	0300	13.510	0.43900	15.939	2.4809	2.0640	5	-0.98	8%	0
019.53	Calcium, ICP-MS, Microwave (%)	0413	14.195	2.0100	15.939	2.4809	2.0640	5	-0.70	5%	0
019.53	Calcium, ICP-MS, Microwave (%)	0553	15.950	0.50000	15.939	2.4809	2.0640	5	0.00	0%	0
019.53	Calcium, ICP-MS, Microwave (%)	0572	16.150	1.5000	15.939	2.4809	2.0640	5	0.08	1%	0
019.53	Calcium, ICP-MS, Microwave (%)	2055	19.893	5.8710	15.939	2.4809	2.0640	5	1.59	12%	0
019.99	Calcium, Miscellaneous (%)	0889	10.463	1.4589	13.867	2.3726	0.89223	4	-1.43	12%	0
019.99	Calcium, Miscellaneous (%)	2105	14.060	2.0000	13.867	2.3726	0.89223	4	0.08	1%	0
019.99	Calcium, Miscellaneous (%)	0242	15.240	0.00000	13.867	2.3726	0.89223	4	0.58	5%	0
019.99	Calcium, Miscellaneous (%)	0100	15.705	0.11000	13.867	2.3726	0.89223	4	0.77	7%	0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0689	20.950	0.70000	24.121	2.8032	0.94132	5	-1.13	7%	0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0164	21.500	1.0000	24.121	2.8032	0.94132	5	-0.93	5%	0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0208	24.650	0.90000	24.121	2.8032	0.94132	5	0.19	1%	0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0939	26.315	0.49000	24.121	2.8032	0.94132	5	0.78	5%	0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0563	27.189	1.6166	24.121	2.8032	0.94132	5	1.09	6%	0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0955	11.100	1.4000	17.969	4.0531	1.1420	5	-1.69	19%	0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0619	18.500	0.80000	17.969	4.0531	1.1420	5	0.13	1%	0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0171	18.750	1.5000	17.969	4.0531	1.1420	5	0.19	2%	0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0148	19.700	0.60000	17.969	4.0531	1.1420	5	0.43	5%	0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	2146	21.795	1.4100	17.969	4.0531	1.1420	5	0.94	11%	0
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	0186	7.2500	0.10000	16.986	5.5906	0.85300	5	-8.24	31%	0
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	0693	17.518	0.92500	16.986	5.5906	0.85300	5	-1.29	5%	0
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	0045	19.000	2.0000	16.986	5.5906	0.85300	5	-0.28	1%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	0560	20.410	0.34000	16.986	5.5906	0.85300	5	0.67	3%	0
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	0366	20.750	0.90000	16.986	5.5906	0.85300	5	0.90	3%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0675	17.615	2.0100	22.206	3.5986	0.70105	8	-1.28	10%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0875	19.000	0.00000	22.206	3.5986	0.70105	8	-0.89	7%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0345	20.470	0.20000	22.206	3.5986	0.70105	8	-0.48	4%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0043	21.350	2.3000	22.206	3.5986	0.70105	8	-0.24	2%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0169	23.300	0.20000	22.206	3.5986	0.70105	8	0.30	2%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0964	23.583	0.03830	22.206	3.5986	0.70105	8	0.38	3%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0510	25.465	0.79000	22.206	3.5986	0.70105	8	0.91	7%	0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0027	26.862	0.07010	22.206	3.5986	0.70105	8	1.29	10%	0
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	0047	16.130	1.0000				3			0
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	0910	20.075	3.2900				3			0
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	0186	23.900	0.20000				3			0
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	0098	17.165	1.4300	22.673	4.2708	1.1569	4	-1.29	12%	0
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	0918	21.977	0.29740	22.673	4.2708	1.1569	4	-0.16	2%	0
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	0413	24.250	1.9000	22.673	4.2708	1.1569	4	0.37	3%	0
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	0553	27.300	1.0000	22.673	4.2708	1.1569	4	1.08	10%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0536	84.350	3.1000	99.337	9.6989	1.6109	17	-1.55	8%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	2161	86.850	0.70000	99.337	9.6989	1.6109	17	-1.29	6%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0878	87.600	0.40000	99.337	9.6989	1.6109	17	-1.21	6%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0939	91.125	1.6700	99.337	9.6989	1.6109	17	-0.85	4%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0596	93.250	0.90000	99.337	9.6989	1.6109	17	-0.63	3%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0354	97.450	0.66000	99.337	9.6989	1.6109	17	-0.19	1%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0175	99.000	2.0000	99.337	9.6989	1.6109	17	-0.03	0%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0563	99.099	4.0097	99.337	9.6989	1.6109	17	-0.02	0%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0629	100.00	0.00000	99.337	9.6989	1.6109	17	0.07	0%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0529	100.25	4.3000	99.337	9.6989	1.6109	17	0.09	0%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0653	100.37	2.0700	99.337	9.6989	1.6109	17	0.11	1%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	2149	102.66	0.70000	99.337	9.6989	1.6109	17	0.34	2%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0689	104.60	1.8000	99.337	9.6989	1.6109	17	0.54	3%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0208	107.50	1.0000	99.337	9.6989	1.6109	17	0.84	4%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0921	108.80	0.00000	99.337	9.6989	1.6109	17	0.98	5%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	2022	111.50	3.0000	99.337	9.6989	1.6109	17	1.25	6%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	2068	136.34	1.0750	99.337	9.6989	1.6109	17	3.82	19%	0
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	0505	107.50	15.000	99.337	9.6989	1.6109	17	0.84	4%	1
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	0609	98.000	4.0000				2			0
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	0504	100.49	1.4200				2			0
022.33	Copper, AAS, Microwave (mg / kg (ppm))	0948	99.222	0.15400				2			0
022.33	Copper, AAS, Microwave (mg / kg (ppm))	0010	108.50	7.0000				2			0
022.35	Copper, AAS, Dry ash (mg / kg (ppm))	2144	85.230	1.6200				1			0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0619	82.500	1.8000	96.343	12.031	4.7487	21	-1.15	7%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0511	82.750	2.1200	96.343	12.031	4.7487	21	-1.13	7%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0520	83.000	14.000	96.343	12.031	4.7487	21	-1.11	7%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	2145	84.500	0.40000	96.343	12.031	4.7487	21	-0.98	6%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0910	85.500	11.000	96.343	12.031	4.7487	21	-0.90	6%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0720	87.345	8.8900	96.343	12.031	4.7487	21	-0.75	5%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0405	91.005	0.07000	96.343	12.031	4.7487	21	-0.44	3%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0019	91.650	17.300	96.343	12.031	4.7487	21	-0.39	2%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0208	91.650	1.2400	96.343	12.031	4.7487	21	-0.39	2%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0358	92.285	4.1500	96.343	12.031	4.7487	21	-0.34	2%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0049	92.755	7.7100	96.343	12.031	4.7487	21	-0.30	2%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0148	96.300	0.80000	96.343	12.031	4.7487	21	0.00	0%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0051	97.225	4.5500	96.343	12.031	4.7487	21	0.07	0%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0074	101.50	1.0000	96.343	12.031	4.7487	21	0.43	3%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0164	104.50	1.0000	96.343	12.031	4.7487	21	0.68	4%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0171	105.50	1.0000	96.343	12.031	4.7487	21	0.76	5%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0598	106.45	7.5000	96.343	12.031	4.7487	21	0.84	5%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0226	107.50	5.0000	96.343	12.031	4.7487	21	0.93	6%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0003	110.50	7.0000	96.343	12.031	4.7487	21	1.18	7%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0229	115.92	2.8900	96.343	12.031	4.7487	21	1.63	10%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0407	117.36	0.30170	96.343	12.031	4.7487	21	1.75	11%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0026	55.000	2.0000	98.141	13.094	2.9486	18	-3.29	22%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0037	77.000	2.0000	98.141	13.094	2.9486	18	-1.61	11%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0045	88.250	1.5000	98.141	13.094	2.9486	18	-0.76	5%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0357	91.352	1.7520	98.141	13.094	2.9486	18	-0.52	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0190	91.835	0.57000	98.141	13.094	2.9486	18	-0.48	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0366	92.500	1.0000	98.141	13.094	2.9486	18	-0.43	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0205	92.900	0.00000	98.141	13.094	2.9486	18	-0.40	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0693	93.150	4.2235	98.141	13.094	2.9486	18	-0.38	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0042	94.400	1.8000	98.141	13.094	2.9486	18	-0.29	2%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0186	95.400	3.0000	98.141	13.094	2.9486	18	-0.21	1%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0278	97.700	1.4000	98.141	13.094	2.9486	18	-0.03	0%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0692	104.00	6.0000	98.141	13.094	2.9486	18	0.45	3%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0294	105.06	0.32000	98.141	13.094	2.9486	18	0.53	4%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0560	107.50	7.8000	98.141	13.094	2.9486	18	0.71	5%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0685	110.07	2.0700	98.141	13.094	2.9486	18	0.91	6%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0726	110.95	2.1000	98.141	13.094	2.9486	18	0.98	7%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0187	116.97	2.5400	98.141	13.094	2.9486	18	1.44	10%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0265	117.50	13.000	98.141	13.094	2.9486	18	1.48	10%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	2012	359.56	29.770	98.141	13.094	2.9486	18	19.96	133%	2
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0202	80.882	0.65200	100.46	10.682	5.5423	20	-1.83	10%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0033	85.950	7.9000	100.46	10.682	5.5423	20	-1.36	7%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0675	90.970	2.5800	100.46	10.682	5.5423	20	-0.89	5%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0098	91.590	1.1200	100.46	10.682	5.5423	20	-0.83	4%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0297	93.500	1.0000	100.46	10.682	5.5423	20	-0.65	3%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0169	95.600	2.6000	100.46	10.682	5.5423	20	-0.45	2%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0918	96.115	5.4100	100.46	10.682	5.5423	20	-0.41	2%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0668	96.800	12.400	100.46	10.682	5.5423	20	-0.34	2%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0043	98.200	3.6000	100.46	10.682	5.5423	20	-0.21	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0083	98.500	3.0000	100.46	10.682	5.5423	20	-0.18	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0345	98.600	1.0000	100.46	10.682	5.5423	20	-0.17	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0629	99.000	1.4000	100.46	10.682	5.5423	20	-0.14	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0682	102.20	0.00000	100.46	10.682	5.5423	20	0.16	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0964	104.64	4.1293	100.46	10.682	5.5423	20	0.39	2%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0968	106.50	1.0000	100.46	10.682	5.5423	20	0.57	3%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0610	108.50	15.000	100.46	10.682	5.5423	20	0.75	4%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0027	111.08	8.4740	100.46	10.682	5.5423	20	0.99	5%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0510	114.00	6.0000	100.46	10.682	5.5423	20	1.27	7%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2089	122.47	11.580	100.46	10.682	5.5423	20	2.06	11%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0353	153.00	22.000	100.46	10.682	5.5423	20	4.92	26%	0
022.51	Copper, ICP-MS, Dry ash (mg / kg (ppm))	2146	73.550	0.30000				1			0
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	0186	94.400	0.80000				2			0
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	0047	115.25	1.9800				2			0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0553	97.350	5.3000	99.450	1.8766	8.3500	4	-1.12	1%	0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0572	98.700	8.6000	99.450	1.8766	8.3500	4	-0.40	0%	0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0413	100.00	14.000	99.450	1.8766	8.3500	4	0.29	0%	0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0300	101.75	5.5000	99.450	1.8766	8.3500	4	1.23	1%	0
022.99	Copper, Miscellaneous (mg / kg (ppm))	0100	85.500	5.0000	107.23	21.811	3.8532	5	-1.00	10%	0
022.99	Copper, Miscellaneous (mg / kg (ppm))	2004	101.42	7.1660	107.23	21.811	3.8532	5	-0.27	3%	0
022.99	Copper, Miscellaneous (mg / kg (ppm))	0242	101.50	1.0000	107.23	21.811	3.8532	5	-0.26	3%	0
022.99	Copper, Miscellaneous (mg / kg (ppm))	2129	103.75	0.10000	107.23	21.811	3.8532	5	-0.16	2%	0
022.99	Copper, Miscellaneous (mg / kg (ppm))	0590	144.00	6.0000	107.23	21.811	3.8532	5	1.69	17%	0
024.00	Iodine, Knaph-Lamb (mg / kg (ppm))	0169	524.00	2.0000				1			0
024.01	Iodine, Elm-Cald (mg / kg (ppm))	0186	32.150	2.3000				1			0
024.03	Iodine, Ion-selective electrode (mg / kg (ppm))	0171	302.50	9.0000				1			0
024.99	Iodine, Miscellaneous (mg / kg (ppm))	0675	303.67	13.010				1			0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0921	1,181.1	92.900	2,586.9	262.06	70.432	17	-5.36	27%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0175	2,200.0	0.00000	2,586.9	262.06	70.432	17	-1.48	7%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0563	2,275.6	157.05	2,586.9	262.06	70.432	17	-1.19	6%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	2022	2,459.5	29.000	2,586.9	262.06	70.432	17	-0.49	2%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0505	2,467.5	15.000	2,586.9	262.06	70.432	17	-0.46	2%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0629	2,548.5	7.0000	2,586.9	262.06	70.432	17	-0.15	1%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0939	2,570.0	180.00	2,586.9	262.06	70.432	17	-0.06	0%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0653	2,590.5	43.000	2,586.9	262.06	70.432	17	0.01	0%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0878	2,605.0	4.0000	2,586.9	262.06	70.432	17	0.07	0%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0001	2,610.5	119.00	2,586.9	262.06	70.432	17	0.09	0%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0354	2,613.2	31.870	2,586.9	262.06	70.432	17	0.10	1%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0689	2,622.3	35.600	2,586.9	262.06	70.432	17	0.14	1%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	2068	2,625.1	2.9190	2,586.9	262.06	70.432	17	0.15	1%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0874	2,775.0	170.00	2,586.9	262.06	70.432	17	0.72	4%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0529	2,870.0	40.000	2,586.9	262.06	70.432	17	1.08	5%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0014	2,970.0	60.000	2,586.9	262.06	70.432	17	1.46	7%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0208	3,115.0	210.00	2,586.9	262.06	70.432	17	2.02	10%	0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0536	2,518.8	688.50	2,586.9	262.06	70.432	17	-0.26	1%	1
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	0609	1,752.0	16.000				2			0
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	0504	2,801.0	4.0000				2			0
025.33	Iron, AAS, Microwave (mg / kg (ppm))	0010	2,650.0	100.00				2			0
025.33	Iron, AAS, Microwave (mg / kg (ppm))	0948	2,985.1	136.76				2			0
025.34	Iron, AAS, Dry ash (mg / kg (ppm))	2161	2,159.5	91.000				2			0
025.34	Iron, AAS, Dry ash (mg / kg (ppm))	2144	2,739.7	16.400				2			0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0405	1,754.8	0.82000	2,524.4	281.16	87.774	23	-2.74	15%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0720	1,937.5	41.200	2,524.4	281.16	87.774	23	-2.09	12%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0520	2,127.5	313.00	2,524.4	281.16	87.774	23	-1.41	8%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0171	2,235.0	10.000	2,524.4	281.16	87.774	23	-1.03	6%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0955	2,270.0	68.000	2,524.4	281.16	87.774	23	-0.90	5%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0358	2,331.3	59.120	2,524.4	281.16	87.774	23	-0.69	4%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0049	2,382.4	115.01	2,524.4	281.16	87.774	23	-0.51	3%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0511	2,400.5	25.000	2,524.4	281.16	87.774	23	-0.44	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0208	2,463.5	23.000	2,524.4	281.16	87.774	23	-0.22	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0003	2,469.0	2.0000	2,524.4	281.16	87.774	23	-0.20	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0051	2,536.0	78.000	2,524.4	281.16	87.774	23	0.04	0%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0074	2,573.0	334.00	2,524.4	281.16	87.774	23	0.17	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0910	2,604.0	106.00	2,524.4	281.16	87.774	23	0.28	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0019	2,613.0	90.000	2,524.4	281.16	87.774	23	0.31	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	2004	2,637.8	48.400	2,524.4	281.16	87.774	23	0.40	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0598	2,648.5	15.000	2,524.4	281.16	87.774	23	0.44	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0148	2,660.1	79.100	2,524.4	281.16	87.774	23	0.48	3%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0164	2,705.0	70.000	2,524.4	281.16	87.774	23	0.64	4%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	2145	2,777.5	21.000	2,524.4	281.16	87.774	23	0.90	5%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0619	2,797.5	137.00	2,524.4	281.16	87.774	23	0.97	5%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0229	2,834.0	58.000	2,524.4	281.16	87.774	23	1.10	6%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0226	2,845.0	224.00	2,524.4	281.16	87.774	23	1.14	6%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0407	3,497.5	101.15	2,524.4	281.16	87.774	23	3.46	19%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0026	2,002.5	197.00	2,480.2	275.31	75.203	14	-1.73	10%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0045	2,220.0	40.000	2,480.2	275.31	75.203	14	-0.94	5%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0190	2,288.5	31.140	2,480.2	275.31	75.203	14	-0.70	4%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0693	2,321.1	148.56	2,480.2	275.31	75.203	14	-0.58	3%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0726	2,341.5	19.000	2,480.2	275.31	75.203	14	-0.50	3%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0037	2,406.5	19.000	2,480.2	275.31	75.203	14	-0.27	1%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0366	2,430.0	20.000	2,480.2	275.31	75.203	14	-0.18	1%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0187	2,436.5	14.910	2,480.2	275.31	75.203	14	-0.16	1%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0042	2,464.5	205.00	2,480.2	275.31	75.203	14	-0.06	0%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0560	2,614.9	39.100	2,480.2	275.31	75.203	14	0.49	3%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0294	2,631.8	29.460	2,480.2	275.31	75.203	14	0.55	3%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	2012	2,713.5	0.68000	2,480.2	275.31	75.203	14	0.85	5%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0265	2,951.5	113.00	2,480.2	275.31	75.203	14	1.71	10%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0278	3,463.0	176.00	2,480.2	275.31	75.203	14	3.57	20%	0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0692	2,855.0	750.00	2,480.2	275.31	75.203	14	1.36	8%	1
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0668	2,150.0	200.00	2,473.0	178.19	64.656	21	-1.81	7%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0675	2,215.8	18.140	2,473.0	178.19	64.656	21	-1.44	5%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2089	2,287.9	10.210	2,473.0	178.19	64.656	21	-1.04	4%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0345	2,300.0	20.000	2,473.0	178.19	64.656	21	-0.97	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0169	2,311.5	57.000	2,473.0	178.19	64.656	21	-0.91	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0297	2,319.0	50.000	2,473.0	178.19	64.656	21	-0.86	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0610	2,390.0	98.000	2,473.0	178.19	64.656	21	-0.47	2%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0083	2,454.0	62.000	2,473.0	178.19	64.656	21	-0.11	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0682	2,462.5	0.00000	2,473.0	178.19	64.656	21	-0.06	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0034	2,463.3	88.800	2,473.0	178.19	64.656	21	-0.05	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0918	2,482.6	72.620	2,473.0	178.19	64.656	21	0.05	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0510	2,495.0	30.000	2,473.0	178.19	64.656	21	0.12	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0353	2,521.0	114.00	2,473.0	178.19	64.656	21	0.27	1%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0629	2,545.0	30.000	2,473.0	178.19	64.656	21	0.40	1%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0964	2,547.0	185.51	2,473.0	178.19	64.656	21	0.42	1%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0033	2,555.0	150.00	2,473.0	178.19	64.656	21	0.46	2%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0006	2,605.0	50.000	2,473.0	178.19	64.656	21	0.74	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0098	2,643.0	28.000	2,473.0	178.19	64.656	21	0.95	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0027	2,699.9	31.500	2,473.0	178.19	64.656	21	1.27	5%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0968	2,709.5	5.0000	2,473.0	178.19	64.656	21	1.33	5%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0028	2,719.5	57.000	2,473.0	178.19	64.656	21	1.38	5%	0
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	0047	2,472.1	0.60000				1			0
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	0413	2,544.0	92.000				2			0
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	0553	2,740.0	40.000				2			0
025.99	Iron, Miscellaneous (mg / kg (ppm))	0100	2,421.5	13.000				2			0
025.99	Iron, Miscellaneous (mg / kg (ppm))	0242	2,609.5	19.000				2			0
027.31	Magnesium, AAS, Dry ash (%)	0650	0.13535	0.00730	1.1913	0.10635	0.03577	19	-9.93	44%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
027.31	Magnesium, AAS, Dry ash (%)	0529	0.25850	0.00700	1.1913	0.10635	0.03577	19	-8.77	39%	0
027.31	Magnesium, AAS, Dry ash (%)	0354	1.0500	0.06000	1.1913	0.10635	0.03577	19	-1.33	6%	0
027.31	Magnesium, AAS, Dry ash (%)	0536	1.0800	0.10000	1.1913	0.10635	0.03577	19	-1.05	5%	0
027.31	Magnesium, AAS, Dry ash (%)	0939	1.1250	0.03000	1.1913	0.10635	0.03577	19	-0.62	3%	0
027.31	Magnesium, AAS, Dry ash (%)	0689	1.1600	0.02000	1.1913	0.10635	0.03577	19	-0.29	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0014	1.1650	0.13000	1.1913	0.10635	0.03577	19	-0.25	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0596	1.2000	0.02000	1.1913	0.10635	0.03577	19	0.08	0%	0
027.31	Magnesium, AAS, Dry ash (%)	0175	1.2050	0.01000	1.1913	0.10635	0.03577	19	0.13	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0921	1.2110	0.00000	1.1913	0.10635	0.03577	19	0.19	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0142	1.2203	0.02780	1.1913	0.10635	0.03577	19	0.27	1%	0
027.31	Magnesium, AAS, Dry ash (%)	2022	1.2205	0.01300	1.1913	0.10635	0.03577	19	0.28	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0653	1.2250	0.00200	1.1913	0.10635	0.03577	19	0.32	1%	0
027.31	Magnesium, AAS, Dry ash (%)	0563	1.2335	0.04960	1.1913	0.10635	0.03577	19	0.40	2%	0
027.31	Magnesium, AAS, Dry ash (%)	0874	1.2550	0.03000	1.1913	0.10635	0.03577	19	0.60	3%	0
027.31	Magnesium, AAS, Dry ash (%)	0208	1.2585	0.08300	1.1913	0.10635	0.03577	19	0.63	3%	0
027.31	Magnesium, AAS, Dry ash (%)	0505	1.2600	0.02000	1.1913	0.10635	0.03577	19	0.65	3%	0
027.31	Magnesium, AAS, Dry ash (%)	0878	1.3650	0.01000	1.1913	0.10635	0.03577	19	1.63	7%	0
027.31	Magnesium, AAS, Dry ash (%)	0001	1.3890	0.06000	1.1913	0.10635	0.03577	19	1.86	8%	0
027.31	Magnesium, AAS, Dry ash (%)	0629	12.440	0.14000	1.1913	0.10635	0.03577	19	105.77	472%	2
027.32	Magnesium, AAS, Open vessel (%)	0609	1.2000	0.00000				3			0
027.32	Magnesium, AAS, Open vessel (%)	0504	1.2660	0.06400				3			0
027.32	Magnesium, AAS, Open vessel (%)	0169	1.3150	0.03000				3			0
027.33	Magnesium, AAS, Microwave (%)	0948	1.2060	0.01600				2			0
027.33	Magnesium, AAS, Microwave (%)	0010	1.2450	0.05000				2			0
027.34	Magnesium, AAS, Dry ash (%)	2144	1.2100	0.02000				2			0
027.34	Magnesium, AAS, Dry ash (%)	2161	1.3000	0.02000				2			0
027.35	Magnesium, AAS, Open vessel (%)	0612	1.4200	0.04000				1			0
027.41	Magnesium, ICP, Dry ash (%)	0358	1.0850	0.01000	1.2464	0.05310	0.03181	23	-3.04	6%	0
027.41	Magnesium, ICP, Dry ash (%)	0720	1.1650	0.01000	1.2464	0.05310	0.03181	23	-1.53	3%	0
027.41	Magnesium, ICP, Dry ash (%)	2145	1.1930	0.00600	1.2464	0.05310	0.03181	23	-1.00	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0148	1.2000	0.02000	1.2464	0.05310	0.03181	23	-0.87	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0003	1.2100	0.02000	1.2464	0.05310	0.03181	23	-0.68	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0051	1.2168	0.04250	1.2464	0.05310	0.03181	23	-0.56	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0019	1.2250	0.15000	1.2464	0.05310	0.03181	23	-0.40	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0910	1.2250	0.09000	1.2464	0.05310	0.03181	23	-0.40	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0049	1.2300	0.04000	1.2464	0.05310	0.03181	23	-0.31	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0074	1.2300	0.02000	1.2464	0.05310	0.03181	23	-0.31	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0171	1.2300	0.00000	1.2464	0.05310	0.03181	23	-0.31	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0164	1.2500	0.02000	1.2464	0.05310	0.03181	23	0.07	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0229	1.2500	0.04000	1.2464	0.05310	0.03181	23	0.07	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0619	1.2500	0.02000	1.2464	0.05310	0.03181	23	0.07	0%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
027.41	Magnesium, ICP, Dry ash (%)	0511	1.2550	0.05000	1.2464	0.05310	0.03181	23	0.16	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0848	1.2550	0.01000	1.2464	0.05310	0.03181	23	0.16	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0139	1.2588	0.00850	1.2464	0.05310	0.03181	23	0.23	0%	0
027.41	Magnesium, ICP, Dry ash (%)	0208	1.2665	0.04100	1.2464	0.05310	0.03181	23	0.38	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0598	1.2980	0.01000	1.2464	0.05310	0.03181	23	0.97	2%	0
027.41	Magnesium, ICP, Dry ash (%)	2146	1.3190	0.09000	1.2464	0.05310	0.03181	23	1.37	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0226	1.3200	0.02000	1.2464	0.05310	0.03181	23	1.39	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0405	1.3250	0.01000	1.2464	0.05310	0.03181	23	1.48	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0407	1.7258	0.00370	1.2464	0.05310	0.03181	23	9.03	19%	0
027.41	Magnesium, ICP, Dry ash (%)	0520	1.2200	0.18000	1.2464	0.05310	0.03181	23	-0.50	1%	1
027.42	Magnesium, ICP, Open vessel (%)	0026	0.97500	0.01000	1.2402	0.09150	0.03151	18	-2.90	11%	0
027.42	Magnesium, ICP, Open vessel (%)	0045	1.0700	0.06000	1.2402	0.09150	0.03151	18	-1.86	7%	0
027.42	Magnesium, ICP, Open vessel (%)	0693	1.1272	0.12750	1.2402	0.09150	0.03151	18	-1.24	5%	0
027.42	Magnesium, ICP, Open vessel (%)	0357	1.1494	0.00430	1.2402	0.09150	0.03151	18	-0.99	4%	0
027.42	Magnesium, ICP, Open vessel (%)	0037	1.2050	0.03000	1.2402	0.09150	0.03151	18	-0.38	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0042	1.2050	0.09000	1.2402	0.09150	0.03151	18	-0.38	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0278	1.2100	0.02000	1.2402	0.09150	0.03151	18	-0.33	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0366	1.2150	0.05000	1.2402	0.09150	0.03151	18	-0.28	1%	0
027.42	Magnesium, ICP, Open vessel (%)	2012	1.2600	0.00000	1.2402	0.09150	0.03151	18	0.22	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0560	1.2632	0.00440	1.2402	0.09150	0.03151	18	0.25	1%	0
027.42	Magnesium, ICP, Open vessel (%)	2129	1.2750	0.03000	1.2402	0.09150	0.03151	18	0.38	1%	0
027.42	Magnesium, ICP, Open vessel (%)	0265	1.2800	0.02000	1.2402	0.09150	0.03151	18	0.44	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0294	1.2800	0.00000	1.2402	0.09150	0.03151	18	0.44	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0187	1.3000	0.00000	1.2402	0.09150	0.03151	18	0.65	2%	0
027.42	Magnesium, ICP, Open vessel (%)	0692	1.3100	0.08000	1.2402	0.09150	0.03151	18	0.76	3%	0
027.42	Magnesium, ICP, Open vessel (%)	0190	1.3350	0.03000	1.2402	0.09150	0.03151	18	1.04	4%	0
027.42	Magnesium, ICP, Open vessel (%)	0685	1.3350	0.01000	1.2402	0.09150	0.03151	18	1.04	4%	0
027.42	Magnesium, ICP, Open vessel (%)	0726	1.3675	0.00100	1.2402	0.09150	0.03151	18	1.39	5%	0
027.43	Magnesium, ICP, Microwave (%)	0202	1.0545	0.04500	1.2206	0.09965	0.02819	21	-1.67	7%	0
027.43	Magnesium, ICP, Microwave (%)	0345	1.0800	0.02000	1.2206	0.09965	0.02819	21	-1.41	6%	0
027.43	Magnesium, ICP, Microwave (%)	0297	1.1150	0.01000	1.2206	0.09965	0.02819	21	-1.06	4%	0
027.43	Magnesium, ICP, Microwave (%)	0968	1.1210	0.00200	1.2206	0.09965	0.02819	21	-1.00	4%	0
027.43	Magnesium, ICP, Microwave (%)	0510	1.1350	0.01000	1.2206	0.09965	0.02819	21	-0.86	4%	0
027.43	Magnesium, ICP, Microwave (%)	0098	1.1400	0.00000	1.2206	0.09965	0.02819	21	-0.81	3%	0
027.43	Magnesium, ICP, Microwave (%)	0083	1.1450	0.01000	1.2206	0.09965	0.02819	21	-0.76	3%	0
027.43	Magnesium, ICP, Microwave (%)	0043	1.1900	0.02000	1.2206	0.09965	0.02819	21	-0.31	1%	0
027.43	Magnesium, ICP, Microwave (%)	0918	1.2140	0.03600	1.2206	0.09965	0.02819	21	-0.07	0%	0
027.43	Magnesium, ICP, Microwave (%)	0033	1.2150	0.05000	1.2206	0.09965	0.02819	21	-0.06	0%	0
027.43	Magnesium, ICP, Microwave (%)	0668	1.2200	0.12000	1.2206	0.09965	0.02819	21	-0.01	0%	0
027.43	Magnesium, ICP, Microwave (%)	0028	1.2650	0.01000	1.2206	0.09965	0.02819	21	0.45	2%	0
027.43	Magnesium, ICP, Microwave (%)	0006	1.2710	0.05000	1.2206	0.09965	0.02819	21	0.51	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
027.43	Magnesium, ICP, Microwave (%)	0027	1.2745	0.00900	1.2206	0.09965	0.02819	21	0.54	2%	0
027.43	Magnesium, ICP, Microwave (%)	0610	1.2750	0.01000	1.2206	0.09965	0.02819	21	0.55	2%	0
027.43	Magnesium, ICP, Microwave (%)	0034	1.2801	0.02400	1.2206	0.09965	0.02819	21	0.60	2%	0
027.43	Magnesium, ICP, Microwave (%)	0964	1.2966	0.03590	1.2206	0.09965	0.02819	21	0.76	3%	0
027.43	Magnesium, ICP, Microwave (%)	0353	1.3150	0.05000	1.2206	0.09965	0.02819	21	0.95	4%	0
027.43	Magnesium, ICP, Microwave (%)	0682	1.3200	0.00000	1.2206	0.09965	0.02819	21	1.00	4%	0
027.43	Magnesium, ICP, Microwave (%)	2089	1.3200	0.06000	1.2206	0.09965	0.02819	21	1.00	4%	0
027.43	Magnesium, ICP, Microwave (%)	0675	1.3800	0.02000	1.2206	0.09965	0.02819	21	1.60	7%	0
027.43	Magnesium, ICP, Microwave (%)	0629	12.750	0.10000	1.2206	0.09965	0.02819	21	115.70	472%	2
027.44	Magnesium, ICP, Dry ash (%)	0955	1.1800	0.00000				2			0
027.44	Magnesium, ICP, Dry ash (%)	2004	1.2600	0.02000				2			0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	1.2800	0.02000				1			0
027.53	Magnesium, ICP-MS, Microwave (%)	0413	1.1800	0.12000	1.3162	0.11305	0.11234	5	-1.20	5%	0
027.53	Magnesium, ICP-MS, Microwave (%)	0300	1.2300	0.10000	1.3162	0.11305	0.11234	5	-0.76	3%	0
027.53	Magnesium, ICP-MS, Microwave (%)	2055	1.3411	0.04170	1.3162	0.11305	0.11234	5	0.22	1%	0
027.53	Magnesium, ICP-MS, Microwave (%)	0553	1.3650	0.09000	1.3162	0.11305	0.11234	5	0.43	2%	0
027.53	Magnesium, ICP-MS, Microwave (%)	0572	1.4650	0.21000	1.3162	0.11305	0.11234	5	1.32	6%	0
027.99	Magnesium, Miscellaneous (%)	0889	0.60700	0.01260	1.1130	0.33744	0.02065	4	-64.82	26%	0
027.99	Magnesium, Miscellaneous (%)	0100	1.2700	0.00000	1.1130	0.33744	0.02065	4	-1.12	0%	0
027.99	Magnesium, Miscellaneous (%)	0242	1.2850	0.03000	1.1130	0.33744	0.02065	4	0.32	0%	0
027.99	Magnesium, Miscellaneous (%)	0590	1.2900	0.04000	1.1130	0.33744	0.02065	4	0.80	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0921	1,280.9	0.00000	1,582.0	89.101	37.322	18	-3.38	10%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0689	1,418.5	46.500	1,582.0	89.101	37.322	18	-1.84	5%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0505	1,475.0	90.000	1,582.0	89.101	37.322	18	-1.20	3%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0939	1,495.4	106.25	1,582.0	89.101	37.322	18	-0.97	3%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0536	1,560.8	71.500	1,582.0	89.101	37.322	18	-0.24	1%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0629	1,561.0	28.000	1,582.0	89.101	37.322	18	-0.24	1%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0653	1,568.0	2.0000	1,582.0	89.101	37.322	18	-0.16	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2144	1,573.4	40.000	1,582.0	89.101	37.322	18	-0.10	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0563	1,588.9	66.954	1,582.0	89.101	37.322	18	0.08	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2161	1,591.5	23.000	1,582.0	89.101	37.322	18	0.11	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2022	1,592.5	15.000	1,582.0	89.101	37.322	18	0.12	0%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0175	1,600.0	0.00000	1,582.0	89.101	37.322	18	0.20	1%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0354	1,607.7	13.380	1,582.0	89.101	37.322	18	0.29	1%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0878	1,621.0	6.0000	1,582.0	89.101	37.322	18	0.44	1%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0529	1,640.0	20.000	1,582.0	89.101	37.322	18	0.65	2%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0208	1,690.0	120.00	1,582.0	89.101	37.322	18	1.21	3%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	2068	1,698.1	3.2080	1,582.0	89.101	37.322	18	1.30	4%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0014	1,740.0	20.000	1,582.0	89.101	37.322	18	1.77	5%	0
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	0001	1,477.5	203.00	1,582.0	89.101	37.322	18	-1.17	3%	1
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	0609	942.00	4.0000				2			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	0504	1,771.0	78.000				2			0
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	0948	1,100.1	98.217				1			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0405	904.45	0.36000	1,494.2	144.08	44.278	21	-4.09	20%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0520	1,296.0	180.00	1,494.2	144.08	44.278	21	-1.38	7%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0049	1,308.4	38.480	1,494.2	144.08	44.278	21	-1.29	6%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0720	1,313.8	72.580	1,494.2	144.08	44.278	21	-1.25	6%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0208	1,410.5	125.00	1,494.2	144.08	44.278	21	-0.58	3%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0074	1,414.5	7.0000	1,494.2	144.08	44.278	21	-0.55	3%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0171	1,421.0	4.0000	1,494.2	144.08	44.278	21	-0.51	2%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0511	1,433.0	6.0000	1,494.2	144.08	44.278	21	-0.42	2%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0148	1,499.4	1.9000	1,494.2	144.08	44.278	21	0.04	0%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	2145	1,504.5	7.0000	1,494.2	144.08	44.278	21	0.07	0%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0164	1,505.0	30.000	1,494.2	144.08	44.278	21	0.07	0%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0358	1,511.9	81.320	1,494.2	144.08	44.278	21	0.12	1%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0003	1,513.5	7.0000	1,494.2	144.08	44.278	21	0.13	1%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0051	1,530.5	5.1800	1,494.2	144.08	44.278	21	0.25	1%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0910	1,586.5	165.00	1,494.2	144.08	44.278	21	0.64	3%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0619	1,596.0	64.000	1,494.2	144.08	44.278	21	0.71	3%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0019	1,615.0	18.000	1,494.2	144.08	44.278	21	0.84	4%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0226	1,634.5	35.000	1,494.2	144.08	44.278	21	0.97	5%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0598	1,651.0	2.0000	1,494.2	144.08	44.278	21	1.09	5%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0407	1,675.9	7.0090	1,494.2	144.08	44.278	21	1.26	6%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0229	1,679.5	73.000	1,494.2	144.08	44.278	21	1.29	6%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0026	1,173.5	105.00	1,515.0	176.75	32.228	16	-1.93	11%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0045	1,305.0	10.000	1,515.0	176.75	32.228	16	-1.19	7%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0190	1,326.5	6.5300	1,515.0	176.75	32.228	16	-1.07	6%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0685	1,388.3	13.930	1,515.0	176.75	32.228	16	-0.72	4%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0037	1,411.0	76.000	1,515.0	176.75	32.228	16	-0.59	3%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0357	1,464.4	22.790	1,515.0	176.75	32.228	16	-0.29	2%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0042	1,477.5	63.000	1,515.0	176.75	32.228	16	-0.21	1%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0726	1,528.0	16.000	1,515.0	176.75	32.228	16	0.07	0%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0187	1,547.5	23.400	1,515.0	176.75	32.228	16	0.18	1%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0278	1,555.0	4.0000	1,515.0	176.75	32.228	16	0.23	1%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0265	1,568.0	42.000	1,515.0	176.75	32.228	16	0.30	2%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0693	1,583.2	42.055	1,515.0	176.75	32.228	16	0.39	2%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0560	1,600.0	4.5000	1,515.0	176.75	32.228	16	0.48	3%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0366	1,675.0	50.000	1,515.0	176.75	32.228	16	0.91	5%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	2012	1,783.9	15.230	1,515.0	176.75	32.228	16	1.52	9%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0294	1,818.8	21.220	1,515.0	176.75	32.228	16	1.72	10%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0692	1,765.0	550.00	1,515.0	176.75	32.228	16	1.41	8%	1
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0668	1,295.0	110.00	1,541.8	86.241	54.050	23	-2.86	8%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0043	1,318.5	61.000	1,541.8	86.241	54.050	23	-2.59	7%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0202	1,362.0	14.507	1,541.8	86.241	54.050	23	-2.09	6%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0510	1,457.5	35.000	1,541.8	86.241	54.050	23	-0.98	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0033	1,490.0	180.00	1,541.8	86.241	54.050	23	-0.60	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0918	1,494.1	13.760	1,541.8	86.241	54.050	23	-0.55	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0297	1,494.5	13.000	1,541.8	86.241	54.050	23	-0.55	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0610	1,510.0	118.00	1,541.8	86.241	54.050	23	-0.37	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0034	1,520.4	132.80	1,541.8	86.241	54.050	23	-0.25	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0964	1,522.7	155.10	1,541.8	86.241	54.050	23	-0.22	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0083	1,532.5	43.000	1,541.8	86.241	54.050	23	-0.11	0%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0682	1,545.6	0.00000	1,541.8	86.241	54.050	23	0.04	0%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0006	1,560.0	40.000	1,541.8	86.241	54.050	23	0.21	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0098	1,563.0	38.000	1,541.8	86.241	54.050	23	0.25	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0629	1,565.0	10.000	1,541.8	86.241	54.050	23	0.27	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0675	1,568.2	58.620	1,541.8	86.241	54.050	23	0.31	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0345	1,585.0	50.000	1,541.8	86.241	54.050	23	0.50	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0027	1,593.4	7.4000	1,541.8	86.241	54.050	23	0.60	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0169	1,623.5	23.000	1,541.8	86.241	54.050	23	0.95	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0353	1,629.0	64.000	1,541.8	86.241	54.050	23	1.01	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0968	1,644.5	31.000	1,541.8	86.241	54.050	23	1.19	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0028	1,654.5	21.000	1,541.8	86.241	54.050	23	1.31	4%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2089	1,699.1	23.960	1,541.8	86.241	54.050	23	1.82	5%	0
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	0955	1,382.0	6.0000				2			0
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	2004	1,505.5	42.900				2			0
028.51	Manganese, ICP-MS, Dry ash (mg / kg (ppm))	2146	1,624.5	27.000				1			0
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	0047	1,614.7	13.200				1			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	0413	1,557.5	273.00				3			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	0553	1,780.0	0.00000				3			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	0572	1,800.5	241.00				3			0
028.99	Manganese, Miscellaneous (mg / kg (ppm))	0100	1,493.5	9.0000				3			0
028.99	Manganese, Miscellaneous (mg / kg (ppm))	0590	1,517.5	47.000				3			0
028.99	Manganese, Miscellaneous (mg / kg (ppm))	0242	1,555.5	75.000				3			0
031.00	Phosphorus, Vol (%)	0893	3.2200	0.00000				2			0
031.00	Phosphorus, Vol (%)	0895	3.5450	0.01000				2			0
031.01	Phosphorus, Photometric (%)	0609	2.9600	0.02000	3.5834	0.12760	0.03182	36	-4.89	9%	0
031.01	Phosphorus, Photometric (%)	0108	3.1350	0.03000	3.5834	0.12760	0.03182	36	-3.51	6%	0
031.01	Phosphorus, Photometric (%)	0620	3.1602	0.05530	3.5834	0.12760	0.03182	36	-3.32	6%	0
031.01	Phosphorus, Photometric (%)	0874	3.3095	0.01300	3.5834	0.12760	0.03182	36	-2.15	4%	0
031.01	Phosphorus, Photometric (%)	0689	3.4600	0.02000	3.5834	0.12760	0.03182	36	-0.97	2%	0
031.01	Phosphorus, Photometric (%)	0623	3.4608	0.01140	3.5834	0.12760	0.03182	36	-0.96	2%	0
031.01	Phosphorus, Photometric (%)	2006	3.4665	0.18700	3.5834	0.12760	0.03182	36	-0.92	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
031.01	Phosphorus, Photometric (%)	0175	3.4750	0.05000	3.5834	0.12760	0.03182	36	-0.85	2%	0
031.01	Phosphorus, Photometric (%)	0622	3.4774	0.00160	3.5834	0.12760	0.03182	36	-0.83	1%	0
031.01	Phosphorus, Photometric (%)	0142	3.4786	0.10480	3.5834	0.12760	0.03182	36	-0.82	1%	0
031.01	Phosphorus, Photometric (%)	0511	3.5150	0.03000	3.5834	0.12760	0.03182	36	-0.54	1%	0
031.01	Phosphorus, Photometric (%)	0651	3.5200	0.00000	3.5834	0.12760	0.03182	36	-0.50	1%	0
031.01	Phosphorus, Photometric (%)	2109	3.5290	0.00400	3.5834	0.12760	0.03182	36	-0.43	1%	0
031.01	Phosphorus, Photometric (%)	0208	3.5640	0.07800	3.5834	0.12760	0.03182	36	-0.15	0%	0
031.01	Phosphorus, Photometric (%)	0653	3.5790	0.00600	3.5834	0.12760	0.03182	36	-0.03	0%	0
031.01	Phosphorus, Photometric (%)	0722	3.5814	0.02800	3.5834	0.12760	0.03182	36	-0.02	0%	0
031.01	Phosphorus, Photometric (%)	0629	3.6000	0.00000	3.5834	0.12760	0.03182	36	0.13	0%	0
031.01	Phosphorus, Photometric (%)	0563	3.6025	0.03490	3.5834	0.12760	0.03182	36	0.15	0%	0
031.01	Phosphorus, Photometric (%)	0849	3.6095	0.02100	3.5834	0.12760	0.03182	36	0.20	0%	0
031.01	Phosphorus, Photometric (%)	2144	3.6100	0.00000	3.5834	0.12760	0.03182	36	0.21	0%	0
031.01	Phosphorus, Photometric (%)	0897	3.6100	0.02000	3.5834	0.12760	0.03182	36	0.21	0%	0
031.01	Phosphorus, Photometric (%)	0650	3.6250	0.07000	3.5834	0.12760	0.03182	36	0.33	1%	0
031.01	Phosphorus, Photometric (%)	0939	3.6250	0.09000	3.5834	0.12760	0.03182	36	0.33	1%	0
031.01	Phosphorus, Photometric (%)	0885	3.6334	0.01890	3.5834	0.12760	0.03182	36	0.39	1%	0
031.01	Phosphorus, Photometric (%)	0903	3.6350	0.01000	3.5834	0.12760	0.03182	36	0.40	1%	0
031.01	Phosphorus, Photometric (%)	0884	3.6400	0.00000	3.5834	0.12760	0.03182	36	0.44	1%	0
031.01	Phosphorus, Photometric (%)	2093	3.6550	0.01000	3.5834	0.12760	0.03182	36	0.56	1%	0
031.01	Phosphorus, Photometric (%)	0596	3.6650	0.05000	3.5834	0.12760	0.03182	36	0.64	1%	0
031.01	Phosphorus, Photometric (%)	2009	3.6749	0.00560	3.5834	0.12760	0.03182	36	0.72	1%	0
031.01	Phosphorus, Photometric (%)	0354	3.6750	0.01000	3.5834	0.12760	0.03182	36	0.72	1%	0
031.01	Phosphorus, Photometric (%)	0590	3.6900	0.00000	3.5834	0.12760	0.03182	36	0.84	1%	0
031.01	Phosphorus, Photometric (%)	0948	3.7040	0.00600	3.5834	0.12760	0.03182	36	0.94	2%	0
031.01	Phosphorus, Photometric (%)	0066	3.7500	0.04000	3.5834	0.12760	0.03182	36	1.31	2%	0
031.01	Phosphorus, Photometric (%)	0529	3.8400	0.04000	3.5834	0.12760	0.03182	36	2.01	4%	0
031.01	Phosphorus, Photometric (%)	0878	3.8400	0.06000	3.5834	0.12760	0.03182	36	2.01	4%	0
031.01	Phosphorus, Photometric (%)	2022	3.9900	0.02000	3.5834	0.12760	0.03182	36	3.19	6%	0
031.01	Phosphorus, Photometric (%)	0940	3.1350	0.29000	3.5834	0.12760	0.03182	36	-3.51	6%	1
031.01	Phosphorus, Photometric (%)	0921	0.34750	0.00700	3.5834	0.12760	0.03182	36	-25.36	45%	2
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	0013	3.5800	0.02000	3.6813	0.07087	0.02250	4	-1.43	1%	0
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	0505	3.6850	0.01000	3.6813	0.07087	0.02250	4	0.05	0%	0
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	0043	3.7250	0.05000	3.6813	0.07087	0.02250	4	0.62	1%	0
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	2053	3.7350	0.01000	3.6813	0.07087	0.02250	4	0.76	1%	0
031.03	Phosphorus, Autoanalyzer (%)	0169	3.6150	0.03000				3			0
031.03	Phosphorus, Autoanalyzer (%)	0504	3.6650	0.01000				3			0
031.03	Phosphorus, Autoanalyzer (%)	0001	3.7280	0.04000				3			0
031.06	Phosphorus, Hach Method (%)	0536	3.4200	0.12000				1			0
031.41	Phosphorus, ICP, Dry ash (%)	0405	2.6650	0.01000	3.6272	0.27511	0.07351	24	-3.50	13%	0
031.41	Phosphorus, ICP, Dry ash (%)	0520	3.2700	0.12000	3.6272	0.27511	0.07351	24	-1.30	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
031.41	Phosphorus, ICP, Dry ash (%)	0019	3.3500	0.02000	3.6272	0.27511	0.07351	24	-1.01	4%	0
031.41	Phosphorus, ICP, Dry ash (%)	0003	3.3600	0.02000	3.6272	0.27511	0.07351	24	-0.97	4%	0
031.41	Phosphorus, ICP, Dry ash (%)	0358	3.3800	0.24000	3.6272	0.27511	0.07351	24	-0.90	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0910	3.4400	0.30000	3.6272	0.27511	0.07351	24	-0.68	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0685	3.4450	0.03000	3.6272	0.27511	0.07351	24	-0.66	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0144	3.4700	0.10000	3.6272	0.27511	0.07351	24	-0.57	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0848	3.5500	0.00000	3.6272	0.27511	0.07351	24	-0.28	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	2145	3.5500	0.00000	3.6272	0.27511	0.07351	24	-0.28	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0208	3.5790	0.06000	3.6272	0.27511	0.07351	24	-0.18	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0171	3.5800	0.02000	3.6272	0.27511	0.07351	24	-0.17	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0139	3.6375	0.00500	3.6272	0.27511	0.07351	24	0.04	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0148	3.6400	0.04000	3.6272	0.27511	0.07351	24	0.05	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0619	3.6600	0.04000	3.6272	0.27511	0.07351	24	0.12	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0049	3.6650	0.05000	3.6272	0.27511	0.07351	24	0.14	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0720	3.7250	0.11000	3.6272	0.27511	0.07351	24	0.36	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0164	3.7800	0.22000	3.6272	0.27511	0.07351	24	0.56	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0051	3.8265	0.08440	3.6272	0.27511	0.07351	24	0.72	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0229	3.8750	0.03000	3.6272	0.27511	0.07351	24	0.90	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0226	3.9850	0.07000	3.6272	0.27511	0.07351	24	1.30	5%	0
031.41	Phosphorus, ICP, Dry ash (%)	0074	3.9900	0.10000	3.6272	0.27511	0.07351	24	1.32	5%	0
031.41	Phosphorus, ICP, Dry ash (%)	0598	4.1180	0.01000	3.6272	0.27511	0.07351	24	1.78	7%	0
031.41	Phosphorus, ICP, Dry ash (%)	0407	5.4609	0.08480	3.6272	0.27511	0.07351	24	6.67	25%	0
031.42	Phosphorus, ICP, Open vessel (%)	0045	3.0850	0.01000	3.6508	0.22489	0.05778	20	-2.52	8%	0
031.42	Phosphorus, ICP, Open vessel (%)	0357	3.2330	0.11320	3.6508	0.22489	0.05778	20	-1.86	6%	0
031.42	Phosphorus, ICP, Open vessel (%)	2012	3.4250	0.03000	3.6508	0.22489	0.05778	20	-1.00	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0026	3.4550	0.11000	3.6508	0.22489	0.05778	20	-0.87	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0037	3.5000	0.02000	3.6508	0.22489	0.05778	20	-0.67	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0042	3.5050	0.09000	3.6508	0.22489	0.05778	20	-0.65	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0366	3.5200	0.02000	3.6508	0.22489	0.05778	20	-0.58	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0278	3.5650	0.03000	3.6508	0.22489	0.05778	20	-0.38	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0504	3.6280	0.01000	3.6508	0.22489	0.05778	20	-0.10	0%	0
031.42	Phosphorus, ICP, Open vessel (%)	0205	3.6800	0.08000	3.6508	0.22489	0.05778	20	0.13	0%	0
031.42	Phosphorus, ICP, Open vessel (%)	0560	3.6802	0.04190	3.6508	0.22489	0.05778	20	0.13	0%	0
031.42	Phosphorus, ICP, Open vessel (%)	0190	3.6900	0.02000	3.6508	0.22489	0.05778	20	0.17	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0014	3.7500	0.02000	3.6508	0.22489	0.05778	20	0.44	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0294	3.7500	0.00000	3.6508	0.22489	0.05778	20	0.44	1%	0
031.42	Phosphorus, ICP, Open vessel (%)	0693	3.7618	0.16540	3.6508	0.22489	0.05778	20	0.49	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0265	3.8300	0.10000	3.6508	0.22489	0.05778	20	0.80	2%	0
031.42	Phosphorus, ICP, Open vessel (%)	0187	3.8400	0.06000	3.6508	0.22489	0.05778	20	0.84	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0726	3.8405	0.07500	3.6508	0.22489	0.05778	20	0.84	3%	0
031.42	Phosphorus, ICP, Open vessel (%)	0692	3.9800	0.06000	3.6508	0.22489	0.05778	20	1.46	5%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
031.42	Phosphorus, ICP, Open vessel (%)	2129	4.1500	0.10000	3.6508	0.22489	0.05778	20	2.22	7%	0
031.43	Phosphorus, ICP, Microwave (%)	0202	3.1790	0.00800	3.6908	0.17557	0.10725	22	-2.92	7%	0
031.43	Phosphorus, ICP, Microwave (%)	0043	3.2050	0.03000	3.6908	0.17557	0.10725	22	-2.77	7%	0
031.43	Phosphorus, ICP, Microwave (%)	0682	3.4800	0.00000	3.6908	0.17557	0.10725	22	-1.20	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0034	3.5162	0.06350	3.6908	0.17557	0.10725	22	-0.99	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0006	3.5410	0.11800	3.6908	0.17557	0.10725	22	-0.85	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	3.6095	0.15300	3.6908	0.17557	0.10725	22	-0.46	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0629	3.6350	0.05000	3.6908	0.17557	0.10725	22	-0.32	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0297	3.6450	0.27000	3.6908	0.17557	0.10725	22	-0.26	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0027	3.6605	0.05300	3.6908	0.17557	0.10725	22	-0.17	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0918	3.6615	0.06100	3.6908	0.17557	0.10725	22	-0.17	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0610	3.6750	0.11000	3.6908	0.17557	0.10725	22	-0.09	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0345	3.7050	0.03000	3.6908	0.17557	0.10725	22	0.08	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	3.7150	0.17000	3.6908	0.17557	0.10725	22	0.14	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0668	3.7300	0.40000	3.6908	0.17557	0.10725	22	0.22	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0033	3.7400	0.32000	3.6908	0.17557	0.10725	22	0.28	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0964	3.7629	0.10090	3.6908	0.17557	0.10725	22	0.41	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0028	3.7700	0.04000	3.6908	0.17557	0.10725	22	0.45	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0353	3.7750	0.05000	3.6908	0.17557	0.10725	22	0.48	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	3.9100	0.00000	3.6908	0.17557	0.10725	22	1.25	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0675	3.9250	0.27000	3.6908	0.17557	0.10725	22	1.33	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0083	3.9400	0.06000	3.6908	0.17557	0.10725	22	1.42	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0968	3.9460	0.00200	3.6908	0.17557	0.10725	22	1.45	3%	0
031.44	Phosphorus, ICP, Dry ash (%)	0955	3.5350	0.07000				2			0
031.44	Phosphorus, ICP, Dry ash (%)	2004	3.5850	0.01000				2			0
031.51	Phosphorus, ICP-MS, Dry ash (%)	2146	3.9435	0.35300				1			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0300	3.7055	0.29900	3.8690	0.16629	0.19710	5	-0.98	2%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	0413	3.7300	0.16000	3.8690	0.16629	0.19710	5	-0.84	2%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	0572	3.8200	0.20000	3.8690	0.16629	0.19710	5	-0.29	1%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	2055	4.0293	0.24650	3.8690	0.16629	0.19710	5	0.96	2%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	0553	4.0600	0.08000	3.8690	0.16629	0.19710	5	1.15	2%	0
031.99	Phosphorus, Miscellaneous (%)	0852	2.5800	0.00000	3.4817	0.53133	0.12036	5	-1.70	13%	0
031.99	Phosphorus, Miscellaneous (%)	0100	3.5150	0.13000	3.4817	0.53133	0.12036	5	0.06	0%	0
031.99	Phosphorus, Miscellaneous (%)	0889	3.5683	0.34180	3.4817	0.53133	0.12036	5	0.16	1%	0
031.99	Phosphorus, Miscellaneous (%)	2161	3.8400	0.06000	3.4817	0.53133	0.12036	5	0.67	5%	0
031.99	Phosphorus, Miscellaneous (%)	0242	3.9050	0.07000	3.4817	0.53133	0.12036	5	0.80	6%	0
032.02	Potassium, Flame Emission (%)	0504	2.5500	0.08000				1			0
032.31	Potassium, AAS, Dry ash (%)	0536	2.1850	0.03000	2.4806	0.13530	0.04573	20	-2.18	6%	0
032.31	Potassium, AAS, Dry ash (%)	0689	2.2850	0.05000	2.4806	0.13530	0.04573	20	-1.45	4%	0
032.31	Potassium, AAS, Dry ash (%)	0948	2.2970	0.04600	2.4806	0.13530	0.04573	20	-1.36	4%	0
032.31	Potassium, AAS, Dry ash (%)	0175	2.3850	0.03000	2.4806	0.13530	0.04573	20	-0.71	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
032.31	Potassium, AAS, Dry ash (%)	0354	2.4150	0.07000	2.4806	0.13530	0.04573	20	-0.48	1%	0
032.31	Potassium, AAS, Dry ash (%)	0208	2.4250	0.07000	2.4806	0.13530	0.04573	20	-0.41	1%	0
032.31	Potassium, AAS, Dry ash (%)	0142	2.4284	0.08790	2.4806	0.13530	0.04573	20	-0.39	1%	0
032.31	Potassium, AAS, Dry ash (%)	0878	2.4300	0.02000	2.4806	0.13530	0.04573	20	-0.37	1%	0
032.31	Potassium, AAS, Dry ash (%)	0529	2.4450	0.03000	2.4806	0.13530	0.04573	20	-0.26	1%	0
032.31	Potassium, AAS, Dry ash (%)	0921	2.4630	0.00000	2.4806	0.13530	0.04573	20	-0.13	0%	0
032.31	Potassium, AAS, Dry ash (%)	0874	2.4900	0.02000	2.4806	0.13530	0.04573	20	0.07	0%	0
032.31	Potassium, AAS, Dry ash (%)	0939	2.5050	0.01000	2.4806	0.13530	0.04573	20	0.18	0%	0
032.31	Potassium, AAS, Dry ash (%)	2022	2.5230	0.05400	2.4806	0.13530	0.04573	20	0.31	1%	0
032.31	Potassium, AAS, Dry ash (%)	2053	2.5450	0.01000	2.4806	0.13530	0.04573	20	0.48	1%	0
032.31	Potassium, AAS, Dry ash (%)	0014	2.5600	0.04000	2.4806	0.13530	0.04573	20	0.59	2%	0
032.31	Potassium, AAS, Dry ash (%)	0505	2.5600	0.08000	2.4806	0.13530	0.04573	20	0.59	2%	0
032.31	Potassium, AAS, Dry ash (%)	0653	2.5805	0.00100	2.4806	0.13530	0.04573	20	0.74	2%	0
032.31	Potassium, AAS, Dry ash (%)	0629	2.6300	0.06000	2.4806	0.13530	0.04573	20	1.10	3%	0
032.31	Potassium, AAS, Dry ash (%)	0563	2.7456	0.04570	2.4806	0.13530	0.04573	20	1.96	5%	0
032.31	Potassium, AAS, Dry ash (%)	2161	3.7500	0.16000	2.4806	0.13530	0.04573	20	9.38	26%	0
032.31	Potassium, AAS, Dry ash (%)	0650	2.1815	0.36900	2.4806	0.13530	0.04573	20	-2.21	6%	1
032.32	Potassium, AAS, Open vessel (%)	0609	2.5250	0.03000				2			0
032.32	Potassium, AAS, Open vessel (%)	0169	2.5350	0.03000				2			0
032.41	Potassium, ICP, Dry ash (%)	0358	1.9950	0.17000	2.4934	0.16008	0.07517	23	-3.11	10%	0
032.41	Potassium, ICP, Dry ash (%)	0405	2.2550	0.00600	2.4934	0.16008	0.07517	23	-1.49	5%	0
032.41	Potassium, ICP, Dry ash (%)	0511	2.3300	0.06000	2.4934	0.16008	0.07517	23	-1.02	3%	0
032.41	Potassium, ICP, Dry ash (%)	0144	2.3750	0.09000	2.4934	0.16008	0.07517	23	-0.74	2%	0
032.41	Potassium, ICP, Dry ash (%)	0148	2.3750	0.03000	2.4934	0.16008	0.07517	23	-0.74	2%	0
032.41	Potassium, ICP, Dry ash (%)	0171	2.3850	0.03000	2.4934	0.16008	0.07517	23	-0.68	2%	0
032.41	Potassium, ICP, Dry ash (%)	0520	2.4150	0.15000	2.4934	0.16008	0.07517	23	-0.49	2%	0
032.41	Potassium, ICP, Dry ash (%)	0019	2.4300	0.10000	2.4934	0.16008	0.07517	23	-0.40	1%	0
032.41	Potassium, ICP, Dry ash (%)	0619	2.4450	0.03000	2.4934	0.16008	0.07517	23	-0.30	1%	0
032.41	Potassium, ICP, Dry ash (%)	0226	2.4500	0.02000	2.4934	0.16008	0.07517	23	-0.27	1%	0
032.41	Potassium, ICP, Dry ash (%)	0720	2.4600	0.06000	2.4934	0.16008	0.07517	23	-0.21	1%	0
032.41	Potassium, ICP, Dry ash (%)	0910	2.4600	0.20000	2.4934	0.16008	0.07517	23	-0.21	1%	0
032.41	Potassium, ICP, Dry ash (%)	0848	2.4700	0.02000	2.4934	0.16008	0.07517	23	-0.15	0%	0
032.41	Potassium, ICP, Dry ash (%)	0164	2.5200	0.00000	2.4934	0.16008	0.07517	23	0.17	1%	0
032.41	Potassium, ICP, Dry ash (%)	0003	2.5250	0.05000	2.4934	0.16008	0.07517	23	0.20	1%	0
032.41	Potassium, ICP, Dry ash (%)	0229	2.5300	0.02000	2.4934	0.16008	0.07517	23	0.23	1%	0
032.41	Potassium, ICP, Dry ash (%)	0139	2.5600	0.02000	2.4934	0.16008	0.07517	23	0.42	1%	0
032.41	Potassium, ICP, Dry ash (%)	0208	2.6120	0.22000	2.4934	0.16008	0.07517	23	0.74	2%	0
032.41	Potassium, ICP, Dry ash (%)	0051	2.6380	0.07360	2.4934	0.16008	0.07517	23	0.90	3%	0
032.41	Potassium, ICP, Dry ash (%)	0074	2.6850	0.03000	2.4934	0.16008	0.07517	23	1.20	4%	0
032.41	Potassium, ICP, Dry ash (%)	0049	2.7150	0.17000	2.4934	0.16008	0.07517	23	1.38	4%	0
032.41	Potassium, ICP, Dry ash (%)	0598	2.7265	0.14100	2.4934	0.16008	0.07517	23	1.46	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
032.41	Potassium, ICP, Dry ash (%)	0407	3.7694	0.03840	2.4934	0.16008	0.07517	23	7.97	26%	0
032.42	Potassium, ICP, Open vessel (%)	0026	2.0050	0.05000	2.5850	0.30188	0.04214	18	-1.92	11%	0
032.42	Potassium, ICP, Open vessel (%)	0045	2.1000	0.02000	2.5850	0.30188	0.04214	18	-1.61	9%	0
032.42	Potassium, ICP, Open vessel (%)	0693	2.2867	0.03980	2.5850	0.30188	0.04214	18	-0.99	6%	0
032.42	Potassium, ICP, Open vessel (%)	0278	2.4500	0.04000	2.5850	0.30188	0.04214	18	-0.45	3%	0
032.42	Potassium, ICP, Open vessel (%)	0042	2.4650	0.01000	2.5850	0.30188	0.04214	18	-0.40	2%	0
032.42	Potassium, ICP, Open vessel (%)	2012	2.4650	0.01000	2.5850	0.30188	0.04214	18	-0.40	2%	0
032.42	Potassium, ICP, Open vessel (%)	0357	2.5073	0.00530	2.5850	0.30188	0.04214	18	-0.26	2%	0
032.42	Potassium, ICP, Open vessel (%)	0205	2.5350	0.11000	2.5850	0.30188	0.04214	18	-0.17	1%	0
032.42	Potassium, ICP, Open vessel (%)	0560	2.5452	0.01950	2.5850	0.30188	0.04214	18	-0.13	1%	0
032.42	Potassium, ICP, Open vessel (%)	0265	2.5650	0.11000	2.5850	0.30188	0.04214	18	-0.07	0%	0
032.42	Potassium, ICP, Open vessel (%)	0190	2.6000	0.04000	2.5850	0.30188	0.04214	18	0.05	0%	0
032.42	Potassium, ICP, Open vessel (%)	0504	2.6170	0.03600	2.5850	0.30188	0.04214	18	0.11	1%	0
032.42	Potassium, ICP, Open vessel (%)	0726	2.6190	0.01800	2.5850	0.30188	0.04214	18	0.11	1%	0
032.42	Potassium, ICP, Open vessel (%)	2129	2.6850	0.01000	2.5850	0.30188	0.04214	18	0.33	2%	0
032.42	Potassium, ICP, Open vessel (%)	0037	2.9150	0.01000	2.5850	0.30188	0.04214	18	1.09	6%	0
032.42	Potassium, ICP, Open vessel (%)	0187	2.9350	0.01000	2.5850	0.30188	0.04214	18	1.16	7%	0
032.42	Potassium, ICP, Open vessel (%)	0366	3.1800	0.14000	2.5850	0.30188	0.04214	18	1.97	12%	0
032.42	Potassium, ICP, Open vessel (%)	0294	3.9200	0.08000	2.5850	0.30188	0.04214	18	4.42	26%	0
032.42	Potassium, ICP, Open vessel (%)	0692	2.9200	0.32000	2.5850	0.30188	0.04214	18	1.11	6%	1
032.43	Potassium, ICP, Microwave (%)	0202	2.3700	0.01000	2.5451	0.12603	0.04850	21	-1.39	3%	0
032.43	Potassium, ICP, Microwave (%)	0682	2.3800	0.00000	2.5451	0.12603	0.04850	21	-1.31	3%	0
032.43	Potassium, ICP, Microwave (%)	0297	2.3900	0.04000	2.5451	0.12603	0.04850	21	-1.23	3%	0
032.43	Potassium, ICP, Microwave (%)	0043	2.4600	0.02000	2.5451	0.12603	0.04850	21	-0.68	2%	0
032.43	Potassium, ICP, Microwave (%)	0034	2.4705	0.06490	2.5451	0.12603	0.04850	21	-0.59	1%	0
032.43	Potassium, ICP, Microwave (%)	0006	2.4740	0.00600	2.5451	0.12603	0.04850	21	-0.56	1%	0
032.43	Potassium, ICP, Microwave (%)	0353	2.4950	0.07000	2.5451	0.12603	0.04850	21	-0.40	1%	0
032.43	Potassium, ICP, Microwave (%)	0610	2.4950	0.03000	2.5451	0.12603	0.04850	21	-0.40	1%	0
032.43	Potassium, ICP, Microwave (%)	0668	2.4950	0.27000	2.5451	0.12603	0.04850	21	-0.40	1%	0
032.43	Potassium, ICP, Microwave (%)	0510	2.5000	0.02000	2.5451	0.12603	0.04850	21	-0.36	1%	0
032.43	Potassium, ICP, Microwave (%)	0010	2.5300	0.06000	2.5451	0.12603	0.04850	21	-0.12	0%	0
032.43	Potassium, ICP, Microwave (%)	0027	2.5405	0.03100	2.5451	0.12603	0.04850	21	-0.04	0%	0
032.43	Potassium, ICP, Microwave (%)	0028	2.5650	0.01000	2.5451	0.12603	0.04850	21	0.16	0%	0
032.43	Potassium, ICP, Microwave (%)	0098	2.5650	0.07000	2.5451	0.12603	0.04850	21	0.16	0%	0
032.43	Potassium, ICP, Microwave (%)	0918	2.5820	0.03400	2.5451	0.12603	0.04850	21	0.29	1%	0
032.43	Potassium, ICP, Microwave (%)	0964	2.6020	0.10050	2.5451	0.12603	0.04850	21	0.45	1%	0
032.43	Potassium, ICP, Microwave (%)	0083	2.6900	0.06000	2.5451	0.12603	0.04850	21	1.15	3%	0
032.43	Potassium, ICP, Microwave (%)	0345	2.6950	0.01000	2.5451	0.12603	0.04850	21	1.19	3%	0
032.43	Potassium, ICP, Microwave (%)	0629	2.7050	0.05000	2.5451	0.12603	0.04850	21	1.27	3%	0
032.43	Potassium, ICP, Microwave (%)	2089	2.7100	0.04000	2.5451	0.12603	0.04850	21	1.31	3%	0
032.43	Potassium, ICP, Microwave (%)	0968	2.9450	0.02200	2.5451	0.12603	0.04850	21	3.17	8%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
032.43	Potassium, ICP, Microwave (%)	0675	2.8000	0.32000	2.5451	0.12603	0.04850	21	2.02	5%	1
032.44	Potassium, ICP, Dry ash (%)	0955	2.4100	0.02000				2			0
032.44	Potassium, ICP, Dry ash (%)	2004	2.6300	0.04000				2			0
032.53	Potassium, ICP-MS, Microwave (%)	0413	2.3050	0.15000	2.6504	0.23999	0.17945	4	-1.44	7%	0
032.53	Potassium, ICP-MS, Microwave (%)	0553	2.7050	0.05000	2.6504	0.23999	0.17945	4	0.23	1%	0
032.53	Potassium, ICP-MS, Microwave (%)	2055	2.7315	0.05780	2.6504	0.23999	0.17945	4	0.34	2%	0
032.53	Potassium, ICP-MS, Microwave (%)	0572	2.8600	0.46000	2.6504	0.23999	0.17945	4	0.87	4%	0
032.99	Potassium, Miscellaneous (%)	0889	1.8174	0.14750	2.3408	0.35691	0.09338	4	-1.47	11%	0
032.99	Potassium, Miscellaneous (%)	0100	2.4100	0.14000	2.3408	0.35691	0.09338	4	0.19	1%	0
032.99	Potassium, Miscellaneous (%)	0242	2.5600	0.04000	2.3408	0.35691	0.09338	4	0.61	5%	0
032.99	Potassium, Miscellaneous (%)	0001	2.5760	0.04600	2.3408	0.35691	0.09338	4	0.66	5%	0
033.00	Salt as chloride, Sol Cl (%)	0536	5.5800	0.08000	8.4325	0.37092	0.09557	20	-7.69	17%	0
033.00	Salt as chloride, Sol Cl (%)	0353	6.8500	0.12000	8.4325	0.37092	0.09557	20	-4.27	9%	0
033.00	Salt as chloride, Sol Cl (%)	0675	7.6400	0.10000	8.4325	0.37092	0.09557	20	-2.14	5%	0
033.00	Salt as chloride, Sol Cl (%)	0511	8.0500	0.32000	8.4325	0.37092	0.09557	20	-1.03	2%	0
033.00	Salt as chloride, Sol Cl (%)	0171	8.1050	0.03000	8.4325	0.37092	0.09557	20	-0.88	2%	0
033.00	Salt as chloride, Sol Cl (%)	2145	8.1900	0.08000	8.4325	0.37092	0.09557	20	-0.65	1%	0
033.00	Salt as chloride, Sol Cl (%)	0884	8.3350	0.03000	8.4325	0.37092	0.09557	20	-0.26	1%	0
033.00	Salt as chloride, Sol Cl (%)	0539	8.3550	0.11000	8.4325	0.37092	0.09557	20	-0.21	0%	0
033.00	Salt as chloride, Sol Cl (%)	0885	8.4480	0.01770	8.4325	0.37092	0.09557	20	0.04	0%	0
033.00	Salt as chloride, Sol Cl (%)	0366	8.5800	0.10000	8.4325	0.37092	0.09557	20	0.40	1%	0
033.00	Salt as chloride, Sol Cl (%)	0903	8.5950	0.01000	8.4325	0.37092	0.09557	20	0.44	1%	0
033.00	Salt as chloride, Sol Cl (%)	0169	8.5950	0.07000	8.4325	0.37092	0.09557	20	0.44	1%	0
033.00	Salt as chloride, Sol Cl (%)	2009	8.5968	0.00170	8.4325	0.37092	0.09557	20	0.44	1%	0
033.00	Salt as chloride, Sol Cl (%)	0897	8.6650	0.03000	8.4325	0.37092	0.09557	20	0.63	1%	0
033.00	Salt as chloride, Sol Cl (%)	0921	8.6900	0.62000	8.4325	0.37092	0.09557	20	0.69	2%	0
033.00	Salt as chloride, Sol Cl (%)	0895	8.7150	0.01000	8.4325	0.37092	0.09557	20	0.76	2%	0
033.00	Salt as chloride, Sol Cl (%)	0309	8.7431	0.00000	8.4325	0.37092	0.09557	20	0.84	2%	0
033.00	Salt as chloride, Sol Cl (%)	2144	8.7600	0.08000	8.4325	0.37092	0.09557	20	0.88	2%	0
033.00	Salt as chloride, Sol Cl (%)	2093	8.7750	0.09000	8.4325	0.37092	0.09557	20	0.92	2%	0
033.00	Salt as chloride, Sol Cl (%)	0653	8.8240	0.01200	8.4325	0.37092	0.09557	20	1.06	2%	0
033.00	Salt as chloride, Sol Cl (%)	0693	8.2326	0.86290	8.4325	0.37092	0.09557	20	-0.54	1%	1
033.01	Salt as chloride, Poten Cl (%)	0098	8.1250	0.13000	8.6515	0.18667	0.11279	23	-2.82	3%	0
033.01	Salt as chloride, Poten Cl (%)	0083	8.4350	0.03000	8.6515	0.18667	0.11279	23	-1.16	1%	0
033.01	Salt as chloride, Poten Cl (%)	0510	8.4350	0.01000	8.6515	0.18667	0.11279	23	-1.16	1%	0
033.01	Salt as chloride, Poten Cl (%)	0939	8.5000	0.08000	8.6515	0.18667	0.11279	23	-0.81	1%	0
033.01	Salt as chloride, Poten Cl (%)	2109	8.5165	0.09900	8.6515	0.18667	0.11279	23	-0.72	1%	0
033.01	Salt as chloride, Poten Cl (%)	0629	8.5350	0.07000	8.6515	0.18667	0.11279	23	-0.62	1%	0
033.01	Salt as chloride, Poten Cl (%)	0004	8.5500	0.46000	8.6515	0.18667	0.11279	23	-0.54	1%	0
033.01	Salt as chloride, Poten Cl (%)	0650	8.5650	0.19000	8.6515	0.18667	0.11279	23	-0.46	1%	0
033.01	Salt as chloride, Poten Cl (%)	0175	8.5750	0.15000	8.6515	0.18667	0.11279	23	-0.41	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
033.01	Salt as chloride, Poten Cl (%)	0354	8.6250	0.01000	8.6515	0.18667	0.11279	23	-0.14	0%	0
033.01	Salt as chloride, Poten Cl (%)	0001	8.6300	0.00000	8.6515	0.18667	0.11279	23	-0.12	0%	0
033.01	Salt as chloride, Poten Cl (%)	2146	8.6300	0.16000	8.6515	0.18667	0.11279	23	-0.12	0%	0
033.01	Salt as chloride, Poten Cl (%)	0874	8.6430	0.00000	8.6515	0.18667	0.11279	23	-0.05	0%	0
033.01	Salt as chloride, Poten Cl (%)	0148	8.6435	0.01700	8.6515	0.18667	0.11279	23	-0.04	0%	0
033.01	Salt as chloride, Poten Cl (%)	0407	8.6725	0.03900	8.6515	0.18667	0.11279	23	0.11	0%	0
033.01	Salt as chloride, Poten Cl (%)	0644	8.6938	0.00910	8.6515	0.18667	0.11279	23	0.23	0%	0
033.01	Salt as chloride, Poten Cl (%)	0164	8.7150	0.17000	8.6515	0.18667	0.11279	23	0.34	0%	0
033.01	Salt as chloride, Poten Cl (%)	0010	8.7550	0.05000	8.6515	0.18667	0.11279	23	0.55	1%	0
033.01	Salt as chloride, Poten Cl (%)	0019	8.7700	0.12000	8.6515	0.18667	0.11279	23	0.63	1%	0
033.01	Salt as chloride, Poten Cl (%)	0278	8.9300	0.02000	8.6515	0.18667	0.11279	23	1.49	2%	0
033.01	Salt as chloride, Poten Cl (%)	0205	8.9500	0.12000	8.6515	0.18667	0.11279	23	1.60	2%	0
033.01	Salt as chloride, Poten Cl (%)	0226	9.9600	0.48000	8.6515	0.18667	0.11279	23	7.01	8%	0
033.01	Salt as chloride, Poten Cl (%)	0596	10.170	0.18000	8.6515	0.18667	0.11279	23	8.13	9%	0
033.01	Salt as chloride, Poten Cl (%)	0028	0.44000	0.08000	8.6515	0.18667	0.11279	23	-43.99	47%	2
033.03	Salt as chloride, Quantab (%)	0848	6.7100	0.02000	7.8560	0.86136	0.38800	5	-1.33	7%	0
033.03	Salt as chloride, Quantab (%)	0726	7.2500	0.00000	7.8560	0.86136	0.38800	5	-0.70	4%	0
033.03	Salt as chloride, Quantab (%)	0190	8.1200	0.72000	7.8560	0.86136	0.38800	5	0.31	2%	0
033.03	Salt as chloride, Quantab (%)	0505	8.3650	0.13000	7.8560	0.86136	0.38800	5	0.59	3%	0
033.03	Salt as chloride, Quantab (%)	0144	8.8350	1.0700	7.8560	0.86136	0.38800	5	1.14	6%	0
033.05	Salt as chloride, Ion Sel Electrode (%)	0171	7.4450	0.01000	8.4975	1.1059	0.14500	4	-1.06	3%	0
033.05	Salt as chloride, Ion Sel Electrode (%)	0955	8.0550	0.03000	8.4975	1.1059	0.14500	4	0.14	0%	0
033.05	Salt as chloride, Ion Sel Electrode (%)	0689	8.4550	0.07000	8.4975	1.1059	0.14500	4	0.92	3%	0
033.05	Salt as chloride, Ion Sel Electrode (%)	2043	10.035	0.47000	8.4975	1.1059	0.14500	4	4.03	13%	0
033.99	Salt, Miscellaneous (%)	0358	5.4150	0.15000	8.2552	1.6555	0.22643	7	-1.72	17%	0
033.99	Salt, Miscellaneous (%)	0027	6.9995	0.00500	8.2552	1.6555	0.22643	7	-0.76	8%	0
033.99	Salt, Miscellaneous (%)	0910	8.4800	0.74000	8.2552	1.6555	0.22643	7	0.14	1%	0
033.99	Salt, Miscellaneous (%)	2161	8.5150	0.21000	8.2552	1.6555	0.22643	7	0.16	2%	0
033.99	Salt, Miscellaneous (%)	2073	8.7200	0.00000	8.2552	1.6555	0.22643	7	0.28	3%	0
033.99	Salt, Miscellaneous (%)	0208	9.0100	0.48000	8.2552	1.6555	0.22643	7	0.46	5%	0
033.99	Salt, Miscellaneous (%)	0682	10.290	0.00000	8.2552	1.6555	0.22643	7	1.23	12%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0939	3.5100	0.26000	5.5748	0.89769	0.18995	6	-2.30	19%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0164	5.1200	0.16000	5.5748	0.89769	0.18995	6	-0.51	4%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	2053	5.5500	0.10000	5.5748	0.89769	0.18995	6	-0.03	0%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0563	6.1607	0.43970	5.5748	0.89769	0.18995	6	0.65	5%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0169	6.1850	0.11000	5.5748	0.89769	0.18995	6	0.68	5%	0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0610	6.2050	0.07000	5.5748	0.89769	0.18995	6	0.70	6%	0
034.31	Selenium, AAS, Dry ash (mg / kg (ppm))	2161	0.43500	0.03000				1			0
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	0148	3.5050	0.33000				3			0
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	0619	6.5600	0.00000				3			0
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	2146	7.7000	0.68000				3			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	0171	6.1950	0.15000				3			0
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	0692	6.2500	0.30000				3			0
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	0186	13.400	4.2000				3			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	0675	5.1800	0.24000				3			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	0964	6.5262	0.65110				3			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	0955	281.31	549.39				3			0
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	0910	5.5550	0.71000	8.3600	4.5108	0.82000	4	-1.15	5%	0
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	0047	6.3500	0.14000	8.3600	4.5108	0.82000	4	0.49	2%	0
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	0208	6.4350	0.63000	8.3600	4.5108	0.82000	4	0.66	3%	0
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	0186	15.100	1.8000	8.3600	4.5108	0.82000	4	18.51	74%	0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0918	4.8764	0.43830	8.3222	2.7591	1.7903	5	-1.01	19%	0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0098	6.4795	0.02300	8.3222	2.7591	1.7903	5	-0.48	9%	0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0010	8.5000	1.0000	8.3222	2.7591	1.7903	5	0.19	4%	0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0553	9.8550	5.4900	8.3222	2.7591	1.7903	5	0.63	12%	0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0413	11.900	2.0000	8.3222	2.7591	1.7903	5	1.31	25%	0
034.99	Selenium, Miscellaneous (mg / kg (ppm))	0190	5.3550	0.05000				1			0
035.01	Sodium, Ion-selective electrode (%)	2006	2.8310	0.01400				1			0
035.02	Sodium, Em Spect (%)	0884	2.7750	0.25000				1			0
035.05	Sodium, Flame Emission (%)	0108	2.0700	0.08000				3			0
035.05	Sodium, Flame Emission (%)	0037	2.7005	0.02500				3			0
035.05	Sodium, Flame Emission (%)	0504	2.8750	0.09000				3			0
035.31	Sodium, AAS, Dry ash (%)	0536	2.5600	0.12000	2.7172	0.13117	0.06071	15	-1.20	3%	0
035.31	Sodium, AAS, Dry ash (%)	0354	2.5650	0.05000	2.7172	0.13117	0.06071	15	-1.16	3%	0
035.31	Sodium, AAS, Dry ash (%)	0142	2.5765	0.00960	2.7172	0.13117	0.06071	15	-1.07	3%	0
035.31	Sodium, AAS, Dry ash (%)	0650	2.6350	0.01000	2.7172	0.13117	0.06071	15	-0.63	2%	0
035.31	Sodium, AAS, Dry ash (%)	0689	2.6400	0.02000	2.7172	0.13117	0.06071	15	-0.59	1%	0
035.31	Sodium, AAS, Dry ash (%)	0208	2.6550	0.11000	2.7172	0.13117	0.06071	15	-0.47	1%	0
035.31	Sodium, AAS, Dry ash (%)	0939	2.6550	0.07000	2.7172	0.13117	0.06071	15	-0.47	1%	0
035.31	Sodium, AAS, Dry ash (%)	2022	2.7290	0.04400	2.7172	0.13117	0.06071	15	0.09	0%	0
035.31	Sodium, AAS, Dry ash (%)	0878	2.7350	0.03000	2.7172	0.13117	0.06071	15	0.14	0%	0
035.31	Sodium, AAS, Dry ash (%)	0563	2.7484	0.02800	2.7172	0.13117	0.06071	15	0.24	1%	0
035.31	Sodium, AAS, Dry ash (%)	0874	2.7950	0.01000	2.7172	0.13117	0.06071	15	0.59	1%	0
035.31	Sodium, AAS, Dry ash (%)	0948	2.8420	0.01800	2.7172	0.13117	0.06071	15	0.95	2%	0
035.31	Sodium, AAS, Dry ash (%)	0921	2.8530	0.06800	2.7172	0.13117	0.06071	15	1.04	2%	0
035.31	Sodium, AAS, Dry ash (%)	0596	2.8550	0.13000	2.7172	0.13117	0.06071	15	1.05	3%	0
035.31	Sodium, AAS, Dry ash (%)	0529	3.0345	0.19300	2.7172	0.13117	0.06071	15	2.42	6%	0
035.32	Sodium, AAS, Open vessel (%)	0609	2.3000	0.20000				1			0
035.32	Sodium, AAS, Open vessel (%)	0169	0.00000	0.00000				1			4
035.33	Sodium, AAS, Microwave (%)	0300	2.9050	0.07000				1			0
035.41	Sodium, ICP, Dry ash (%)	0405	1.7650	0.01000	2.7192	0.16969	0.05055	18	-5.62	18%	0
035.41	Sodium, ICP, Dry ash (%)	0358	2.1300	0.06000	2.7192	0.16969	0.05055	18	-3.47	11%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
035.41	Sodium, ICP, Dry ash (%)	0019	2.5450	0.01000	2.7192	0.16969	0.05055	18	-1.03	3%	0
035.41	Sodium, ICP, Dry ash (%)	0910	2.5900	0.26000	2.7192	0.16969	0.05055	18	-0.76	2%	0
035.41	Sodium, ICP, Dry ash (%)	0144	2.6300	0.08000	2.7192	0.16969	0.05055	18	-0.53	2%	0
035.41	Sodium, ICP, Dry ash (%)	0619	2.6400	0.00000	2.7192	0.16969	0.05055	18	-0.47	1%	0
035.41	Sodium, ICP, Dry ash (%)	0226	2.6550	0.01000	2.7192	0.16969	0.05055	18	-0.38	1%	0
035.41	Sodium, ICP, Dry ash (%)	0171	2.7200	0.00000	2.7192	0.16969	0.05055	18	0.00	0%	0
035.41	Sodium, ICP, Dry ash (%)	0598	2.7355	0.02100	2.7192	0.16969	0.05055	18	0.10	0%	0
035.41	Sodium, ICP, Dry ash (%)	0139	2.7400	0.00000	2.7192	0.16969	0.05055	18	0.12	0%	0
035.41	Sodium, ICP, Dry ash (%)	0049	2.7500	0.08000	2.7192	0.16969	0.05055	18	0.18	1%	0
035.41	Sodium, ICP, Dry ash (%)	0164	2.7600	0.06000	2.7192	0.16969	0.05055	18	0.24	1%	0
035.41	Sodium, ICP, Dry ash (%)	0720	2.7600	0.10000	2.7192	0.16969	0.05055	18	0.24	1%	0
035.41	Sodium, ICP, Dry ash (%)	0051	2.8081	0.00050	2.7192	0.16969	0.05055	18	0.52	2%	0
035.41	Sodium, ICP, Dry ash (%)	2004	2.8650	0.01000	2.7192	0.16969	0.05055	18	0.86	3%	0
035.41	Sodium, ICP, Dry ash (%)	0229	2.8700	0.00000	2.7192	0.16969	0.05055	18	0.89	3%	0
035.41	Sodium, ICP, Dry ash (%)	0208	2.9740	0.18200	2.7192	0.16969	0.05055	18	1.50	5%	0
035.41	Sodium, ICP, Dry ash (%)	0407	4.3094	0.02640	2.7192	0.16969	0.05055	18	9.37	29%	0
035.41	Sodium, ICP, Dry ash (%)	0520	2.6189	0.36870	2.7192	0.16969	0.05055	18	-0.59	2%	1
035.42	Sodium, ICP, Open vessel (%)	0042	2.6400	0.12000	2.7619	0.07699	0.08309	13	-1.58	2%	0
035.42	Sodium, ICP, Open vessel (%)	0045	2.6900	0.06000	2.7619	0.07699	0.08309	13	-0.93	1%	0
035.42	Sodium, ICP, Open vessel (%)	0366	2.7000	0.18000	2.7619	0.07699	0.08309	13	-0.80	1%	0
035.42	Sodium, ICP, Open vessel (%)	0205	2.7150	0.03000	2.7619	0.07699	0.08309	13	-0.61	1%	0
035.42	Sodium, ICP, Open vessel (%)	0294	2.7200	0.04000	2.7619	0.07699	0.08309	13	-0.54	1%	0
035.42	Sodium, ICP, Open vessel (%)	2012	2.7350	0.01000	2.7619	0.07699	0.08309	13	-0.35	0%	0
035.42	Sodium, ICP, Open vessel (%)	0278	2.7700	0.04000	2.7619	0.07699	0.08309	13	0.11	0%	0
035.42	Sodium, ICP, Open vessel (%)	0560	2.7768	0.02240	2.7619	0.07699	0.08309	13	0.19	0%	0
035.42	Sodium, ICP, Open vessel (%)	0693	2.8002	0.12680	2.7619	0.07699	0.08309	13	0.50	1%	0
035.42	Sodium, ICP, Open vessel (%)	0504	2.8035	0.03100	2.7619	0.07699	0.08309	13	0.54	1%	0
035.42	Sodium, ICP, Open vessel (%)	0265	2.8150	0.05000	2.7619	0.07699	0.08309	13	0.69	1%	0
035.42	Sodium, ICP, Open vessel (%)	0187	2.8550	0.05000	2.7619	0.07699	0.08309	13	1.21	2%	0
035.42	Sodium, ICP, Open vessel (%)	0692	3.1600	0.32000	2.7619	0.07699	0.08309	13	5.17	7%	0
035.43	Sodium, ICP, Microwave (%)	0675	2.3400	0.02000	2.7035	0.22992	0.08036	16	-1.58	7%	0
035.43	Sodium, ICP, Microwave (%)	0202	2.3700	0.01000	2.7035	0.22992	0.08036	16	-1.45	6%	0
035.43	Sodium, ICP, Microwave (%)	0297	2.4800	0.08000	2.7035	0.22992	0.08036	16	-0.97	4%	0
035.43	Sodium, ICP, Microwave (%)	0098	2.4950	0.07000	2.7035	0.22992	0.08036	16	-0.91	4%	0
035.43	Sodium, ICP, Microwave (%)	0034	2.6456	0.04680	2.7035	0.22992	0.08036	16	-0.25	1%	0
035.43	Sodium, ICP, Microwave (%)	0682	2.6500	0.00000	2.7035	0.22992	0.08036	16	-0.23	1%	0
035.43	Sodium, ICP, Microwave (%)	0918	2.6755	0.01900	2.7035	0.22992	0.08036	16	-0.12	1%	0
035.43	Sodium, ICP, Microwave (%)	0510	2.6760	0.03400	2.7035	0.22992	0.08036	16	-0.12	1%	0
035.43	Sodium, ICP, Microwave (%)	0006	2.6960	0.05800	2.7035	0.22992	0.08036	16	-0.03	0%	0
035.43	Sodium, ICP, Microwave (%)	0610	2.7800	0.16000	2.7035	0.22992	0.08036	16	0.33	1%	0
035.43	Sodium, ICP, Microwave (%)	0345	2.7950	0.03000	2.7035	0.22992	0.08036	16	0.40	2%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
035.43	Sodium, ICP, Microwave (%)	0353	2.8200	0.06000	2.7035	0.22992	0.08036	16	0.51	2%	0
035.43	Sodium, ICP, Microwave (%)	0668	2.8800	0.26000	2.7035	0.22992	0.08036	16	0.77	3%	0
035.43	Sodium, ICP, Microwave (%)	2089	2.9750	0.05000	2.7035	0.22992	0.08036	16	1.18	5%	0
035.43	Sodium, ICP, Microwave (%)	0964	2.9794	0.24790	2.7035	0.22992	0.08036	16	1.20	5%	0
035.43	Sodium, ICP, Microwave (%)	0083	2.9800	0.14000	2.7035	0.22992	0.08036	16	1.20	5%	0
035.53	Sodium, ICP-MS, Microwave (%)	0413	2.5950	0.19000				3			0
035.53	Sodium, ICP-MS, Microwave (%)	0553	3.0350	0.05000				3			0
035.53	Sodium, ICP-MS, Microwave (%)	0572	3.1200	0.30000				3			0
035.99	Sodium, Miscellaneous (%)	0100	2.7650	0.01000	3.1685	0.44548	0.08972	5	-0.96	4%	0
035.99	Sodium, Miscellaneous (%)	0242	2.8550	0.01000	3.1685	0.44548	0.08972	5	-0.58	2%	0
035.99	Sodium, Miscellaneous (%)	0590	3.0500	0.06000	3.1685	0.44548	0.08972	5	0.25	1%	0
035.99	Sodium, Miscellaneous (%)	2105	3.2950	0.09000	3.1685	0.44548	0.08972	5	1.29	5%	0
035.99	Sodium, Miscellaneous (%)	0889	3.8775	0.27860	3.1685	0.44548	0.08972	5	3.77	15%	0
036.04	Sulfur, LECO (%)	0098	1.9500	0.02000				2			0
036.04	Sulfur, LECO (%)	0610	1.9700	0.02000				2			0
036.42	Sulfur, ICP, Open vessel (%)	0045	1.9700	0.00000	2.3013	0.23019	0.03521	16	-1.44	7%	0
036.42	Sulfur, ICP, Open vessel (%)	0357	2.0940	0.05900	2.3013	0.23019	0.03521	16	-0.90	5%	0
036.42	Sulfur, ICP, Open vessel (%)	0186	2.1250	0.03000	2.3013	0.23019	0.03521	16	-0.77	4%	0
036.42	Sulfur, ICP, Open vessel (%)	0366	2.1300	0.12000	2.3013	0.23019	0.03521	16	-0.74	4%	0
036.42	Sulfur, ICP, Open vessel (%)	0693	2.2089	0.13360	2.3013	0.23019	0.03521	16	-0.40	2%	0
036.42	Sulfur, ICP, Open vessel (%)	0187	2.2273	0.04120	2.3013	0.23019	0.03521	16	-0.32	2%	0
036.42	Sulfur, ICP, Open vessel (%)	0278	2.2450	0.01000	2.3013	0.23019	0.03521	16	-0.24	1%	0
036.42	Sulfur, ICP, Open vessel (%)	0560	2.2641	0.02850	2.3013	0.23019	0.03521	16	-0.16	1%	0
036.42	Sulfur, ICP, Open vessel (%)	0164	2.2700	0.04000	2.3013	0.23019	0.03521	16	-0.14	1%	0
036.42	Sulfur, ICP, Open vessel (%)	0708	2.2800	0.04000	2.3013	0.23019	0.03521	16	-0.09	0%	0
036.42	Sulfur, ICP, Open vessel (%)	0171	2.3000	0.00000	2.3013	0.23019	0.03521	16	-0.01	0%	0
036.42	Sulfur, ICP, Open vessel (%)	0265	2.3000	0.04000	2.3013	0.23019	0.03521	16	-0.01	0%	0
036.42	Sulfur, ICP, Open vessel (%)	0726	2.4665	0.00100	2.3013	0.23019	0.03521	16	0.72	4%	0
036.42	Sulfur, ICP, Open vessel (%)	0037	2.6750	0.01000	2.3013	0.23019	0.03521	16	1.62	8%	0
036.42	Sulfur, ICP, Open vessel (%)	0294	2.7200	0.00000	2.3013	0.23019	0.03521	16	1.82	9%	0
036.42	Sulfur, ICP, Open vessel (%)	0407	3.3296	0.01010	2.3013	0.23019	0.03521	16	4.47	22%	0
036.42	Sulfur, ICP, Open vessel (%)	0692	2.4900	0.36000	2.3013	0.23019	0.03521	16	0.82	4%	1
036.43	Sulfur, ICP, Microwave (%)	2089	1.8200	0.02000	2.2003	0.21043	0.07931	11	-1.81	9%	0
036.43	Sulfur, ICP, Microwave (%)	0202	1.9900	0.06200	2.2003	0.21043	0.07931	11	-1.00	5%	0
036.43	Sulfur, ICP, Microwave (%)	0297	1.9950	0.07000	2.2003	0.21043	0.07931	11	-0.98	5%	0
036.43	Sulfur, ICP, Microwave (%)	0345	2.1350	0.07000	2.2003	0.21043	0.07931	11	-0.31	1%	0
036.43	Sulfur, ICP, Microwave (%)	0098	2.1650	0.17000	2.2003	0.21043	0.07931	11	-0.17	1%	0
036.43	Sulfur, ICP, Microwave (%)	0668	2.2300	0.16000	2.2003	0.21043	0.07931	11	0.14	1%	0
036.43	Sulfur, ICP, Microwave (%)	0918	2.2355	0.01300	2.2003	0.21043	0.07931	11	0.17	1%	0
036.43	Sulfur, ICP, Microwave (%)	0964	2.3535	0.21740	2.2003	0.21043	0.07931	11	0.73	3%	0
036.43	Sulfur, ICP, Microwave (%)	0353	2.3750	0.07000	2.2003	0.21043	0.07931	11	0.83	4%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
036.43	Sulfur, ICP, Microwave (%)	0510	2.4100	0.00000	2.2003	0.21043	0.07931	11	1.00	5%	0
036.43	Sulfur, ICP, Microwave (%)	0169	2.4300	0.02000	2.2003	0.21043	0.07931	11	1.09	5%	0
036.52	Sulfur, ICP-MS, Open vessel (%)	0910	2.0551	0.13520				2			0
036.52	Sulfur, ICP-MS, Open vessel (%)	0186	2.5550	0.01000				2			0
036.53	Sulfur, ICP-MS, Microwave (%)	0553	2.3850	0.15000				2			0
036.53	Sulfur, ICP-MS, Microwave (%)	0148	2.4000	0.00000				2			0
036.99	Sulfur, Miscellaneous (%)	0889	1.5807	0.13930				2			0
036.99	Sulfur, Miscellaneous (%)	0242	2.3950	0.05000				2			0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0878	2,747.0	6.0000	3,936.5	293.58	128.16	20	-4.05	15%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2068	2,929.8	137.53	3,936.5	293.58	128.16	20	-3.43	13%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0921	3,300.9	0.00000	3,936.5	293.58	128.16	20	-2.16	8%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2022	3,685.0	68.000	3,936.5	293.58	128.16	20	-0.86	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0939	3,726.6	208.10	3,936.5	293.58	128.16	20	-0.72	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0536	3,790.3	239.50	3,936.5	293.58	128.16	20	-0.50	2%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2144	3,806.7	15.610	3,936.5	293.58	128.16	20	-0.44	2%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0505	3,892.5	65.000	3,936.5	293.58	128.16	20	-0.15	1%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0175	3,950.0	100.00	3,936.5	293.58	128.16	20	0.05	0%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0001	3,953.0	422.00	3,936.5	293.58	128.16	20	0.06	0%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0689	3,966.6	23.900	3,936.5	293.58	128.16	20	0.10	0%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0208	4,060.0	240.00	3,936.5	293.58	128.16	20	0.42	2%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0354	4,079.0	16.520	3,936.5	293.58	128.16	20	0.49	2%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2149	4,084.1	123.01	3,936.5	293.58	128.16	20	0.50	2%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0653	4,135.0	110.00	3,936.5	293.58	128.16	20	0.68	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	2161	4,145.0	254.00	3,936.5	293.58	128.16	20	0.71	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0874	4,165.0	170.00	3,936.5	293.58	128.16	20	0.78	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0629	4,171.0	154.00	3,936.5	293.58	128.16	20	0.80	3%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0529	4,255.0	50.000	3,936.5	293.58	128.16	20	1.08	4%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0014	4,510.0	160.00	3,936.5	293.58	128.16	20	1.95	7%	0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0563	22,270	924.04	3,936.5	293.58	128.16	20	62.45	233%	2
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	0504	3,947.0	28.000				2			0
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	0609	4,040.0	80.000				2			0
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	0948	3,539.8	1.2820				2			0
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	0010	3,970.0	120.00				2			0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0520	1,708.0	190.00	3,761.8	377.44	158.80	21	-5.44	27%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0405	2,293.1	0.30000	3,761.8	377.44	158.80	21	-3.89	20%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0720	3,256.9	75.770	3,761.8	377.44	158.80	21	-1.34	7%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0049	3,387.3	295.97	3,761.8	377.44	158.80	21	-0.99	5%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0171	3,460.0	60.000	3,761.8	377.44	158.80	21	-0.80	4%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0511	3,572.5	171.00	3,761.8	377.44	158.80	21	-0.50	3%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0208	3,661.5	269.00	3,761.8	377.44	158.80	21	-0.27	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0358	3,703.2	57.950	3,761.8	377.44	158.80	21	-0.16	1%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0164	3,710.0	220.00	3,761.8	377.44	158.80	21	-0.14	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0148	3,711.2	188.40	3,761.8	377.44	158.80	21	-0.13	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0003	3,803.5	139.00	3,761.8	377.44	158.80	21	0.11	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0019	3,824.5	203.00	3,761.8	377.44	158.80	21	0.17	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0051	3,837.7	45.910	3,761.8	377.44	158.80	21	0.20	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	2145	3,866.5	23.000	3,761.8	377.44	158.80	21	0.28	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0598	3,957.5	97.000	3,761.8	377.44	158.80	21	0.52	3%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0226	3,968.0	28.000	3,761.8	377.44	158.80	21	0.55	3%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0074	3,998.0	332.00	3,761.8	377.44	158.80	21	0.63	3%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0619	4,105.0	236.00	3,761.8	377.44	158.80	21	0.91	5%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0910	4,188.5	589.00	3,761.8	377.44	158.80	21	1.13	6%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0229	4,266.0	96.000	3,761.8	377.44	158.80	21	1.34	7%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0407	4,498.4	17.476	3,761.8	377.44	158.80	21	1.95	10%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0026	2,818.5	345.00	3,687.3	418.79	117.17	16	-2.07	12%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0045	3,010.0	20.000	3,687.3	418.79	117.17	16	-1.62	9%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0190	3,232.9	76.210	3,687.3	418.79	117.17	16	-1.09	6%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0278	3,341.5	22.000	3,687.3	418.79	117.17	16	-0.83	5%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0357	3,343.1	82.450	3,687.3	418.79	117.17	16	-0.82	5%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0042	3,622.0	92.000	3,687.3	418.79	117.17	16	-0.16	1%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0037	3,728.0	286.00	3,687.3	418.79	117.17	16	0.10	1%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0187	3,784.5	10.890	3,687.3	418.79	117.17	16	0.23	1%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0560	3,808.9	46.500	3,687.3	418.79	117.17	16	0.29	2%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0366	3,825.0	110.00	3,687.3	418.79	117.17	16	0.33	2%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0294	3,918.1	41.900	3,687.3	418.79	117.17	16	0.55	3%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	2012	3,918.1	84.240	3,687.3	418.79	117.17	16	0.55	3%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0726	4,043.5	51.000	3,687.3	418.79	117.17	16	0.85	5%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0693	4,050.6	261.60	3,687.3	418.79	117.17	16	0.87	5%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0692	4,090.0	100.00	3,687.3	418.79	117.17	16	0.96	5%	0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0265	4,172.5	245.00	3,687.3	418.79	117.17	16	1.16	7%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0668	3,030.0	180.00	3,884.5	272.62	85.404	23	-3.13	11%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0202	3,131.8	75.435	3,884.5	272.62	85.404	23	-2.76	10%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0918	3,555.1	40.950	3,884.5	272.62	85.404	23	-1.21	4%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0610	3,636.5	15.000	3,884.5	272.62	85.404	23	-0.91	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0345	3,660.0	80.000	3,884.5	272.62	85.404	23	-0.82	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0034	3,663.1	42.000	3,884.5	272.62	85.404	23	-0.81	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0043	3,704.0	58.000	3,884.5	272.62	85.404	23	-0.66	2%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0964	3,714.0	135.14	3,884.5	272.62	85.404	23	-0.63	2%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0510	3,820.0	20.000	3,884.5	272.62	85.404	23	-0.24	1%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2089	3,821.7	14.220	3,884.5	272.62	85.404	23	-0.23	1%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0098	3,869.0	36.000	3,884.5	272.62	85.404	23	-0.06	0%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0033	3,900.0	340.00	3,884.5	272.62	85.404	23	0.06	0%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0682	3,901.3	0.00000	3,884.5	272.62	85.404	23	0.06	0%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0629	3,980.0	80.000	3,884.5	272.62	85.404	23	0.35	1%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0027	4,019.5	33.210	3,884.5	272.62	85.404	23	0.50	2%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0006	4,055.0	170.00	3,884.5	272.62	85.404	23	0.63	2%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0083	4,117.0	44.000	3,884.5	272.62	85.404	23	0.85	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0028	4,122.0	138.00	3,884.5	272.62	85.404	23	0.87	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0353	4,123.0	166.00	3,884.5	272.62	85.404	23	0.87	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0297	4,125.5	53.000	3,884.5	272.62	85.404	23	0.88	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0968	4,135.0	18.000	3,884.5	272.62	85.404	23	0.92	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0675	4,176.5	24.340	3,884.5	272.62	85.404	23	1.07	4%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0169	4,519.5	201.00	3,884.5	272.62	85.404	23	2.33	8%	0
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	0955	3,455.0	58.000				2			0
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	2004	3,862.8	63.500				2			0
037.51	Zinc, ICP-MS, Dry ash (mg / kg (ppm))	2146	3,696.0	436.00				1			0
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	0047	4,014.1	197.70				1			0
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0413	3,503.0	26.000	4,105.9	546.12	46.250	4	-1.10	7%	0
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0572	3,805.0	70.000	4,105.9	546.12	46.250	4	-0.55	4%	0
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0300	4,430.5	39.000	4,105.9	546.12	46.250	4	0.59	4%	0
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0553	4,685.0	50.000	4,105.9	546.12	46.250	4	1.06	7%	0
037.99	Zinc, Miscellaneous (mg / kg (ppm))	0889	0.29735	0.00670				3			0
037.99	Zinc, Miscellaneous (mg / kg (ppm))	0100	3,752.0	254.00				3			0
037.99	Zinc, Miscellaneous (mg / kg (ppm))	0242	3,788.0	2.0000				3			0
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	0171	3.5500	0.30000				1			0
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	0693	3.8192	0.12440				3			0
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	0045	4.6000	0.60000				3			0
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	0278	5.9250	0.21000				3			0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0353	4.1886	0.05150	4.6520	0.43341	0.21973	6	-1.07	5%	0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0345	4.4050	0.19000	4.6520	0.43341	0.21973	6	-0.57	3%	0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0964	4.4935	0.24690	4.6520	0.43341	0.21973	6	-0.37	2%	0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0169	4.6550	0.07000	4.6520	0.43341	0.21973	6	0.01	0%	0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0297	4.9200	0.66000	4.6520	0.43341	0.21973	6	0.62	3%	0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0510	5.2500	0.10000	4.6520	0.43341	0.21973	6	1.38	6%	0
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0098	3.9580	0.17800	5.2953	1.0969	0.46763	4	-1.05	9%	0
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0553	4.9700	0.18000	5.2953	1.0969	0.46763	4	0.10	1%	0
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0918	5.7182	0.04250	5.2953	1.0969	0.46763	4	0.95	9%	0
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0413	6.5350	1.4700	5.2953	1.0969	0.46763	4	1.87	17%	0
040.42	Barium, ICP, Open vessel (mg / kg (ppm))	0560	15.170	0.92000				1			0
040.53	Barium, ICP-MS, Microwave (mg / kg (ppm))	0918	12.059	0.19120				1			0
041.53	Vanadium, ICP-MS, Microwave (mg / kg (ppm))	0553	30.000	2.4000				1			0
042.00	Chloride, Titrimetric (%)	0297	4.6200	0.58000				1			0
101.00	Choline Chloride, Microbiological (mg / kg (ppm))	0227	1,105.0	30.000				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
101.01	Choline Chloride, Chem (mg / kg (ppm))	2004	676.50	23.000				1			0
101.02	Choline Chloride, LC (mg / kg (ppm))	0644	1,029.5	27.000				1			0
102.01	Niacin, Microbiological (mg / kg (ppm))	0227	45.250	0.50000				1			0
102.02	Niacin, LC (mg / kg (ppm))	2161	16.210	0.12000				2			0
102.02	Niacin, LC (mg / kg (ppm))	2022	246.00	34.000				2			0
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	0227	10.950	0.50000				1			0
103.02	Pantothenic Acid, LC (mg / kg (ppm))	0629	116.00	0.00000				1			0
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	0227	2.0850	0.17000				1			0
105.00	Thiamine, LC (mg / kg (ppm))	0208	62.763	1.9650	82.553	20.977	5.1930	5	-0.94	12%	0
105.00	Thiamine, LC (mg / kg (ppm))	2022	70.000	8.0000	82.553	20.977	5.1930	5	-0.60	8%	0
105.00	Thiamine, LC (mg / kg (ppm))	0629	73.000	0.00000	82.553	20.977	5.1930	5	-0.46	6%	0
105.00	Thiamine, LC (mg / kg (ppm))	0910	92.500	13.000	82.553	20.977	5.1930	5	0.47	6%	0
105.00	Thiamine, LC (mg / kg (ppm))	2053	114.50	3.0000	82.553	20.977	5.1930	5	1.52	19%	0
105.01	Thiamine, Fluorometer (mg / kg (ppm))	0227	76.450	9.5000				1			0
106.00	Vitamin A, Color (KU / kg)	0019	304.83	8.2200				2			0
106.00	Vitamin A, Color (KU / kg)	0171	403.50	3.0000				2			0
106.01	Vitamin A, UV (KU / kg)	0098	419.00	62.000				1			0
106.02	Vitamin A, LC (KU / kg)	2066	139.50	7.0000	339.23	84.006	17.050	24	-2.38	29%	0
106.02	Vitamin A, LC (KU / kg)	0675	191.98	26.840	339.23	84.006	17.050	24	-1.75	22%	0
106.02	Vitamin A, LC (KU / kg)	2068	227.50	5.0000	339.23	84.006	17.050	24	-1.33	16%	0
106.02	Vitamin A, LC (KU / kg)	0563	231.85	14.100	339.23	84.006	17.050	24	-1.28	16%	0
106.02	Vitamin A, LC (KU / kg)	0941	298.00	6.0000	339.23	84.006	17.050	24	-0.49	6%	0
106.02	Vitamin A, LC (KU / kg)	0905	300.50	23.000	339.23	84.006	17.050	24	-0.46	6%	0
106.02	Vitamin A, LC (KU / kg)	0027	301.73	14.518	339.23	84.006	17.050	24	-0.45	6%	0
106.02	Vitamin A, LC (KU / kg)	0227	304.00	2.0000	339.23	84.006	17.050	24	-0.42	5%	0
106.02	Vitamin A, LC (KU / kg)	0676	307.95	13.500	339.23	84.006	17.050	24	-0.37	5%	0
106.02	Vitamin A, LC (KU / kg)	0910	314.00	24.000	339.23	84.006	17.050	24	-0.30	4%	0
106.02	Vitamin A, LC (KU / kg)	2004	321.00	28.000	339.23	84.006	17.050	24	-0.22	3%	0
106.02	Vitamin A, LC (KU / kg)	0689	348.00	18.800	339.23	84.006	17.050	24	0.10	1%	0
106.02	Vitamin A, LC (KU / kg)	0148	350.47	0.00000	339.23	84.006	17.050	24	0.13	2%	0
106.02	Vitamin A, LC (KU / kg)	0051	354.02	30.322	339.23	84.006	17.050	24	0.18	2%	0
106.02	Vitamin A, LC (KU / kg)	2053	357.00	12.000	339.23	84.006	17.050	24	0.21	3%	0
106.02	Vitamin A, LC (KU / kg)	0208	360.45	33.069	339.23	84.006	17.050	24	0.25	3%	0
106.02	Vitamin A, LC (KU / kg)	0004	366.76	20.330	339.23	84.006	17.050	24	0.33	4%	0
106.02	Vitamin A, LC (KU / kg)	0610	368.75	6.5000	339.23	84.006	17.050	24	0.35	4%	0
106.02	Vitamin A, LC (KU / kg)	0619	391.00	0.00000	339.23	84.006	17.050	24	0.62	8%	0
106.02	Vitamin A, LC (KU / kg)	2103	407.95	58.900	339.23	84.006	17.050	24	0.82	10%	0
106.02	Vitamin A, LC (KU / kg)	0014	408.50	29.000	339.23	84.006	17.050	24	0.82	10%	0
106.02	Vitamin A, LC (KU / kg)	2144	477.11	0.32700	339.23	84.006	17.050	24	1.64	20%	0
106.02	Vitamin A, LC (KU / kg)	2145	487.00	32.000	339.23	84.006	17.050	24	1.76	22%	0
106.02	Vitamin A, LC (KU / kg)	0169	558.00	4.0000	339.23	84.006	17.050	24	2.60	32%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
106.02	Vitamin A, LC (KU / kg)	0028	246.91	128.41	339.23	84.006	17.050	24	-1.10	14%	1
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	0227	5,395.0	70.000				1			0
108.01	Vitamin D3, LC, AOAC (KU / kg)	0676	44.970	0.12000				2			0
108.01	Vitamin D3, LC, AOAC (KU / kg)	0169	54.500	1.0000				2			0
108.02	Vitamin D3, LC (KU / kg)	2103	39.830	6.5400	43.995	4.2283	3.2889	7	-0.99	5%	0
108.02	Vitamin D3, LC (KU / kg)	0208	41.650	11.900	43.995	4.2283	3.2889	7	-0.55	3%	0
108.02	Vitamin D3, LC (KU / kg)	0610	41.750	0.10000	43.995	4.2283	3.2889	7	-0.53	3%	0
108.02	Vitamin D3, LC (KU / kg)	0910	42.700	3.2000	43.995	4.2283	3.2889	7	-0.31	1%	0
108.02	Vitamin D3, LC (KU / kg)	2144	43.801	0.13200	43.995	4.2283	3.2889	7	-0.05	0%	0
108.02	Vitamin D3, LC (KU / kg)	0227	48.300	0.20000	43.995	4.2283	3.2889	7	1.02	5%	0
108.02	Vitamin D3, LC (KU / kg)	0675	49.935	0.95000	43.995	4.2283	3.2889	7	1.40	7%	0
108.99	Vitamin D3, Miscellaneous (KU / kg)	2004	50.800	0.80000				1			0
109.02	Vitamin E, LC (IU/kg)	0619	1.9800	0.00000	1,088.0	369.78	40.807	21	-2.94	50%	0
109.02	Vitamin E, LC (IU/kg)	0098	99.150	1.1000	1,088.0	369.78	40.807	21	-2.67	45%	0
109.02	Vitamin E, LC (IU/kg)	2066	663.50	7.0000	1,088.0	369.78	40.807	21	-1.15	20%	0
109.02	Vitamin E, LC (IU/kg)	0027	841.41	22.575	1,088.0	369.78	40.807	21	-0.67	11%	0
109.02	Vitamin E, LC (IU/kg)	0689	947.50	49.000	1,088.0	369.78	40.807	21	-0.38	6%	0
109.02	Vitamin E, LC (IU/kg)	0208	952.07	27.332	1,088.0	369.78	40.807	21	-0.37	6%	0
109.02	Vitamin E, LC (IU/kg)	2152	970.95	1.6200	1,088.0	369.78	40.807	21	-0.32	5%	0
109.02	Vitamin E, LC (IU/kg)	2103	991.00	26.000	1,088.0	369.78	40.807	21	-0.26	4%	0
109.02	Vitamin E, LC (IU/kg)	0941	996.56	133.68	1,088.0	369.78	40.807	21	-0.25	4%	0
109.02	Vitamin E, LC (IU/kg)	0563	1,001.3	10.500	1,088.0	369.78	40.807	21	-0.23	4%	0
109.02	Vitamin E, LC (IU/kg)	2068	1,028.5	3.0000	1,088.0	369.78	40.807	21	-0.16	3%	0
109.02	Vitamin E, LC (IU/kg)	0910	1,045.5	123.00	1,088.0	369.78	40.807	21	-0.11	2%	0
109.02	Vitamin E, LC (IU/kg)	0610	1,055.0	10.000	1,088.0	369.78	40.807	21	-0.09	2%	0
109.02	Vitamin E, LC (IU/kg)	0905	1,119.5	127.00	1,088.0	369.78	40.807	21	0.09	1%	0
109.02	Vitamin E, LC (IU/kg)	0148	1,140.4	23.730	1,088.0	369.78	40.807	21	0.14	2%	0
109.02	Vitamin E, LC (IU/kg)	0676	1,260.3	15.500	1,088.0	369.78	40.807	21	0.47	8%	0
109.02	Vitamin E, LC (IU/kg)	2022	1,350.0	60.000	1,088.0	369.78	40.807	21	0.71	12%	0
109.02	Vitamin E, LC (IU/kg)	2145	1,490.0	62.000	1,088.0	369.78	40.807	21	1.09	18%	0
109.02	Vitamin E, LC (IU/kg)	2144	2,018.0	44.000	1,088.0	369.78	40.807	21	2.52	43%	0
109.02	Vitamin E, LC (IU/kg)	0169	2,100.0	20.000	1,088.0	369.78	40.807	21	2.74	47%	0
109.02	Vitamin E, LC (IU/kg)	0675	2,904.0	89.910	1,088.0	369.78	40.807	21	4.91	83%	0
109.02	Vitamin E, LC (IU/kg)	0227	1,575.0	870.00	1,088.0	369.78	40.807	21	1.32	22%	1
109.99	Vitamin E, Miscellaneous (IU/kg)	0171	1,000.0	0.00000				1			0
111.00	Vitamin C, phosphorylated, LC (mg / kg (ppm))	0208	214.00	32.000				1			0
111.01	Vitamin C, Ascorbic Acid, LC (mkg/kg (ppm))	2161	114.65	3.5000				3			0
111.01	Vitamin C, Ascorbic Acid, LC (mkg/kg (ppm))	0227	132.50	7.0000				3			0
111.01	Vitamin C, Ascorbic Acid, LC (mkg/kg (ppm))	0875	211.50	1.0000				3			0
111.98	Vitamin C, Ascorbic Acid, Miscellaneous (mkg/kg)	0171	214.50	3.0000				1			0
112.01	Pyridoxine, LC (µg / g)	0227	170.50	1.0000				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
113.01	Folic Acid, Micro (mg / kg (ppm))	0227	1.4100	0.06000				1			0
114.01	Biotin, Microbiological (mg / kg (ppm))	0227	0.27500	0.01800				2			0
114.01	Biotin, Microbiological (mg / kg (ppm))	0208	0.35050	0.00700				2			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0227	0.17000	0.00000	0.17845	0.00610	0.00145	4	-1.38	2%	0
120.00	Alanine, Post-col Ninhydrin Der (%)	0859	0.17900	0.00200	0.17845	0.00610	0.00145	4	0.09	0%	0
120.00	Alanine, Post-col Ninhydrin Der (%)	0918	0.18030	0.00080	0.17845	0.00610	0.00145	4	0.30	1%	0
120.00	Alanine, Post-col Ninhydrin Der (%)	0644	0.18450	0.00300	0.17845	0.00610	0.00145	4	0.99	2%	0
120.01	Alanine, Pre-col OPA Der (%)	2004	0.17650	0.00100				1			0
120.05	Alanine, Pre-col AQC Der (%)	0676	0.18150	0.01300				1			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0870	0.25205	0.01610	0.28385	0.01881	0.01282	5	-1.69	6%	0
121.00	Arginine, Post-col Ninhydrin Der (%)	0227	0.28500	0.01000	0.28385	0.01881	0.01282	5	0.06	0%	0
121.00	Arginine, Post-col Ninhydrin Der (%)	0859	0.28650	0.00700	0.28385	0.01881	0.01282	5	0.14	0%	0
121.00	Arginine, Post-col Ninhydrin Der (%)	0644	0.29650	0.00300	0.28385	0.01881	0.01282	5	0.67	2%	0
121.00	Arginine, Post-col Ninhydrin Der (%)	0918	0.29920	0.02800	0.28385	0.01881	0.01282	5	0.82	3%	0
121.01	Arginine, Pre-col OPA Der (%)	2004	0.32050	0.00500				1			0
121.05	Arginine, Pre-col AQC Der (%)	0676	0.33300	0.03800				1			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0859	0.36900	0.00400	0.39786	0.01999	0.00888	4	-1.44	4%	0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0918	0.40245	0.01550	0.39786	0.01999	0.00888	4	0.23	1%	0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0644	0.40500	0.00600	0.39786	0.01999	0.00888	4	0.36	1%	0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0227	0.41500	0.01000	0.39786	0.01999	0.00888	4	0.86	2%	0
122.01	Aspartic, Pre-col OPA Der (%)	2004	0.40300	0.00200				1			0
122.05	Aspartic, Pre-col AQC Der (%)	0676	0.42950	0.03900				1			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	0870	0.02205	0.00110	0.05487	0.01900	0.00178	5	-7.21	33%	0
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	0918	0.05930	0.00180	0.05487	0.01900	0.00178	5	-0.66	3%	0
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	0227	0.06000	0.00000	0.05487	0.01900	0.00178	5	-0.54	2%	0
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	0644	0.06150	0.00500	0.05487	0.01900	0.00178	5	-0.28	1%	0
124.00	Cysteine/Cystine, PAO Post-col Ninhydry (%)	0859	0.07150	0.00100	0.05487	0.01900	0.00178	5	1.48	7%	0
124.01	Cysteine/Cystine, PAO Pre-col OPA Der (%)	2004	0.06845	0.00510				1			0
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0676	0.05050	0.00500				1			0
124.99	Cysteine/Cystine, Miscellaneous (%)	2144	0.34000	0.00000				1			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0227	0.65000	0.00000	0.65216	0.00159	0.01143	4	-1.36	0%	0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0644	0.65200	0.02200	0.65216	0.00159	0.01143	4	-0.10	0%	0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0859	0.65300	0.00200	0.65216	0.00159	0.01143	4	0.53	0%	0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0918	0.65365	0.02170	0.65216	0.00159	0.01143	4	0.93	0%	0
125.01	Glutamic, Pre-col OPA Der (%)	2004	0.65300	0.00200				1			0
125.05	Glutamic, Pre-col AQC Der (%)	0676	0.69800	0.06800				1			0
126.00	Glycine, Post-col Ninhydrin Der (%)	0918	0.17590	0.00180	0.18398	0.00716	0.00245	4	-1.13	2%	0
126.00	Glycine, Post-col Ninhydrin Der (%)	0227	0.18000	0.00000	0.18398	0.00716	0.00245	4	-0.56	1%	0
126.00	Glycine, Post-col Ninhydrin Der (%)	0644	0.19000	0.00400	0.18398	0.00716	0.00245	4	0.84	2%	0
126.00	Glycine, Post-col Ninhydrin Der (%)	0859	0.19000	0.00400	0.18398	0.00716	0.00245	4	0.84	2%	0
126.01	Glycine, Pre-col OPA Der (%)	2004	0.18350	0.00100				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
126.05	Glycine, Pre-col AQC Der (%)	0676	0.19450	0.01100				1			0
127.00	Histidine, Post-col Ninhydrin Der (%)	0859	0.08350	0.00300	0.09416	0.00737	0.00393	4	-1.45	6%	0
127.00	Histidine, Post-col Ninhydrin Der (%)	0227	0.09500	0.01000	0.09416	0.00737	0.00393	4	0.11	0%	0
127.00	Histidine, Post-col Ninhydrin Der (%)	0918	0.09865	0.00170	0.09416	0.00737	0.00393	4	0.61	2%	0
127.00	Histidine, Post-col Ninhydrin Der (%)	0644	0.09950	0.00100	0.09416	0.00737	0.00393	4	0.72	3%	0
127.01	Histidine, Pre-col OPA Der (%)	2004	0.08015	0.00450				1			0
127.05	Histidine, Pre-col AQC Der (%)	0676	0.09550	0.01100				1			0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0918	0.11095	0.01310	0.11974	0.00717	0.00478	4	-1.23	4%	0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0859	0.11950	0.00100	0.11974	0.00717	0.00478	4	-0.03	0%	0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0227	0.12000	0.00000	0.11974	0.00717	0.00478	4	0.04	0%	0
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0644	0.12850	0.00500	0.11974	0.00717	0.00478	4	1.22	4%	0
128.01	Isoleucine, Pre-col OPA Der (%)	2004	0.12700	0.00600				1			0
128.05	Isoleucine, Pre-col AQC Der (%)	0676	0.11900	0.01000				1			0
129.00	Leucine, Post-col Ninhydrin Der (%)	0227	0.21000	0.00000	0.22124	0.00988	0.00173	4	-1.15	3%	0
129.00	Leucine, Post-col Ninhydrin Der (%)	0918	0.21595	0.00490	0.22124	0.00988	0.00173	4	-0.62	2%	0
129.00	Leucine, Post-col Ninhydrin Der (%)	0644	0.22850	0.00100	0.22124	0.00988	0.00173	4	0.49	1%	0
129.00	Leucine, Post-col Ninhydrin Der (%)	0859	0.23050	0.00100	0.22124	0.00988	0.00173	4	0.66	2%	0
129.01	Leucine, Pre-col OPA Der (%)	2004	0.23200	0.00800				1			0
129.05	Leucine, Pre-col AQC Der (%)	0676	0.23150	0.01900				1			0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0859	0.21050	0.00300	0.91873	0.40449	0.02646	5	-9.25	40%	0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0910	0.95500	0.03000	0.91873	0.40449	0.02646	5	-1.47	6%	0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0644	1.1215	0.02100	0.91873	0.40449	0.02646	5	0.27	1%	0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0227	1.1400	0.02000	0.91873	0.40449	0.02646	5	0.46	2%	0
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0918	1.1667	0.05830	0.91873	0.40449	0.02646	5	0.74	3%	0
130.01	L-Lysine, Pre-col OPA Der (%)	2145	0.90500	0.01000				2			0
130.01	L-Lysine, Pre-col OPA Der (%)	2004	0.91450	0.06100				2			0
130.05	L-Lysine, Pre-col AQC Der (%)	0148	1.0845	0.02100				3			0
130.05	L-Lysine, Pre-col AQC Der (%)	0014	1.0850	0.09000				3			0
130.05	L-Lysine, Pre-col AQC Der (%)	0676	1.1260	0.14800				3			0
130.99	L-Lysine, Miscellaneous (%)	2053	1.1200	0.00000				2			0
130.99	L-Lysine, Miscellaneous (%)	2144	1.3450	0.01000				2			0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0859	0.14700	0.00200	0.22608	0.06227	0.01205	4	-1.27	17%	0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0644	0.22800	0.00800	0.22608	0.06227	0.01205	4	0.03	0%	0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0227	0.23000	0.02000	0.22608	0.06227	0.01205	4	0.06	1%	0
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0918	0.29930	0.01820	0.22608	0.06227	0.01205	4	1.18	16%	0
131.01	Methionine, PAO Pre-col OPA Der (%)	2004	0.45450	0.04700				1			0
131.05	Methionine, PAO Pre-col AQC Der (%)	0676	0.28000	0.01200				1			0
131.99	Methionine, Miscellaneous (%)	2144	0.66500	0.01000				1			0
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0644	0.16450	0.00100	0.19096	0.02652	0.00188	4	-1.00	7%	0
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0227	0.18000	0.00000	0.19096	0.02652	0.00188	4	-0.41	3%	0
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0859	0.19250	0.00500	0.19096	0.02652	0.00188	4	0.06	0%	0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0918	0.22685	0.00150	0.19096	0.02652	0.00188	4	1.35	9%	0
132.01	Phenylalanine, Pre-col OPA Der (%)	2004	0.17400	0.00400				1			0
132.05	Phenylalanine, Pre-col AQC Der (%)	0676	0.18050	0.01700				1			0
133.00	Proline, Post-col Ninhydrin Der (%)	0859	0.13000	0.00000	0.15979	0.02651	0.00878	4	-1.12	9%	0
133.00	Proline, Post-col Ninhydrin Der (%)	0644	0.14500	0.01600	0.15979	0.02651	0.00878	4	-0.56	5%	0
133.00	Proline, Post-col Ninhydrin Der (%)	0227	0.18000	0.00000	0.15979	0.02651	0.00878	4	0.76	6%	0
133.00	Proline, Post-col Ninhydrin Der (%)	0918	0.18415	0.01910	0.15979	0.02651	0.00878	4	0.92	8%	0
133.04	Proline, Pre-col FMOC Der (%)	2004	0.17250	0.00100				1			0
133.05	Proline, Pre-col AQC Der (%)	0676	0.18850	0.01500				1			0
134.00	Serine, Post-col Ninhydrin Der (%)	0644	0.16250	0.00300	0.16803	0.00434	0.00155	4	-1.27	2%	0
134.00	Serine, Post-col Ninhydrin Der (%)	0859	0.16700	0.00200	0.16803	0.00434	0.00155	4	-0.24	0%	0
134.00	Serine, Post-col Ninhydrin Der (%)	0227	0.17000	0.00000	0.16803	0.00434	0.00155	4	0.46	1%	0
134.00	Serine, Post-col Ninhydrin Der (%)	0918	0.17260	0.00120	0.16803	0.00434	0.00155	4	1.06	1%	0
134.01	Serine, Pre-col OPA Der (%)	2004	0.16950	0.00100				1			0
134.05	Serine, Pre-col AQC Der (%)	0676	0.19100	0.01400				1			0
135.00	Threonine, Post-col Ninhydrin Der (%)	0644	0.12300	0.00000	0.12511	0.00328	0.00168	4	-0.71	0%	0
135.00	Threonine, Post-col Ninhydrin Der (%)	0918	0.12345	0.00670	0.12511	0.00328	0.00168	4	-0.07	0%	0
135.00	Threonine, Post-col Ninhydrin Der (%)	0859	0.12400	0.00000	0.12511	0.00328	0.00168	4	0.71	0%	0
135.00	Threonine, Post-col Ninhydrin Der (%)	0227	0.13000	0.00000	0.12511	0.00328	0.00168	4	9.19	3%	0
135.01	Threonine, Pre-col OPA Der (%)	2004	0.12450	0.00300				1			0
135.05	Threonine, Pre-col AQC Der (%)	0676	0.13200	0.01200				1			0
135.99	Threonine, Miscellaneous (%)	2144	0.13500	0.01000				1			0
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0918	0.04845	0.01450				2			0
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	0.05500	0.01000				2			0
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	0644	0.04300	0.00200				1			0
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	0859	0.03750	0.00100				1			0
136.99	Tryptophan, Miscellaneous (%)	2004	0.04700	0.00200				1			0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0870	0.08820	0.00300	0.11828	0.02624	0.00295	4	-1.15	13%	0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0644	0.11300	0.00400	0.11828	0.02624	0.00295	4	-0.20	2%	0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0227	0.12000	0.00000	0.11828	0.02624	0.00295	4	0.07	1%	0
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0918	0.15190	0.00480	0.11828	0.02624	0.00295	4	1.28	14%	0
137.01	Tyrosine, Pre-col OPA Der (%)	2004	0.13750	0.00500				1			0
137.05	Tyrosine, Pre-col AQC Der (%)	0676	0.13100	0.01200				1			0
138.00	Valine, Post-col Ninhydrin Der (%)	0918	0.15445	0.01730	0.17024	0.01250	0.00658	4	-1.26	5%	0
138.00	Valine, Post-col Ninhydrin Der (%)	0227	0.17000	0.00000	0.17024	0.01250	0.00658	4	-0.02	0%	0
138.00	Valine, Post-col Ninhydrin Der (%)	0644	0.17150	0.00700	0.17024	0.01250	0.00658	4	0.10	0%	0
138.00	Valine, Post-col Ninhydrin Der (%)	0859	0.18500	0.00200	0.17024	0.01250	0.00658	4	1.18	4%	0
138.01	Valine, Pre-col OPA Der (%)	2004	0.16750	0.00500				1			0
138.05	Valine, Pre-col AQC Der (%)	0676	0.17400	0.01600				1			0
160.99	Fructose, Miscellaneous (%)	0227	0.42500	0.01000				1			0
162.99	Glucose, Miscellaneous (%)	0227	0.28000	0.12000				1			0

Test Material Code # 201796

Method Proficiency Testing Report

Issue Date : 07/31/2017

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
163.99	Lactose, Miscellaneous (%)	0227	0.33000	0.02000				1			0
165.99	Sucrose, Miscellaneous (%)	0227	3.1750	0.15000				1			0
166.99	Raffinose, Miscellaneous (%)	0227	0.23500	0.01000				1			0
400.01	Water activity, Aqualab chilled mirror (Units)	0407	0.43845	0.00110	0.44983	0.00964	0.00262	6	-1.18	1%	0
400.01	Water activity, Aqualab chilled mirror (Units)	0843	0.44525	0.00070	0.44983	0.00964	0.00262	6	-0.47	1%	0
400.01	Water activity, Aqualab chilled mirror (Units)	0942	0.44750	0.00100	0.44983	0.00964	0.00262	6	-0.24	0%	0
400.01	Water activity, Aqualab chilled mirror (Units)	0010	0.45100	0.00400	0.44983	0.00964	0.00262	6	0.12	0%	0
400.01	Water activity, Aqualab chilled mirror (Units)	0589	0.45300	0.00400	0.44983	0.00964	0.00262	6	0.33	0%	0
400.01	Water activity, Aqualab chilled mirror (Units)	2109	0.46375	0.00490	0.44983	0.00964	0.00262	6	1.44	2%	0
400.99	Water activity, Miscellaneous (Units)	2073	0.42550	0.00100				2			0
400.99	Water activity, Miscellaneous (Units)	0843	0.44300	0.00400				2			0
412.01		0353	1.2450	0.05000				1			0
516.34	Arsenic, total, AAS, Graphite furnace (mg / kg (ppm))	2144	2.8750	0.03000				1			0
516.52	Arsenic, total, ICP-MS, Open vessel (mg / kg (ppm))	2145	2.9400	0.00000				2			0
516.52	Arsenic, total, ICP-MS, Open vessel (mg / kg (ppm))	0186	3.2450	0.05000				2			0
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	0413	2.9700	0.20000	3.3057	0.25385	0.15394	5	-1.32	5%	0
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	0918	3.2197	0.22770	3.3057	0.25385	0.15394	5	-0.34	1%	0
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	0098	3.2940	0.01200	3.3057	0.25385	0.15394	5	-0.05	0%	0
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	0227	3.3750	0.09000	3.3057	0.25385	0.15394	5	0.27	1%	0
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	0553	3.6700	0.24000	3.3057	0.25385	0.15394	5	1.43	6%	0
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	0619	0.53450	0.03700				2			0
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	0171	0.62500	0.01000				2			0
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	0968	0.64000	0.02000				1			0
518.52	Cadmium, ICP-MS, Open vessel (mg / kg (ppm))	0186	0.71350	0.01700				1			0
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0918	0.64370	0.00260	0.73044	0.05646	0.05232	5	-1.54	6%	0
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0413	0.72500	0.11000	0.73044	0.05646	0.05232	5	-0.10	0%	0
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0227	0.73300	0.07600	0.73044	0.05646	0.05232	5	0.05	0%	0
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0553	0.75100	0.02000	0.73044	0.05646	0.05232	5	0.36	1%	0
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0098	0.79950	0.05300	0.73044	0.05646	0.05232	5	1.22	5%	0
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	0171	31.550	0.90000				2			0
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	0619	37.250	0.30000				2			0
520.42	Chromium, ICP, Open vessel (mg / kg (ppm))	0693	37.177	0.39710				1			0
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	0968	38.460	0.00000				2			0
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	0510	47.905	1.2100				2			0
520.52	Chromium, ICP-MS, Open vessel (mg / kg (ppm))	0186	51.500	0.20000				1			0
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	0553	43.950	3.3000				2			0
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	0918	50.037	3.7434				2			0
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	0619	0.52750	0.06700				2			0
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	0171	1.8050	0.03000				2			0
526.52	Lead, ICP-MS, Open vessel (mg / kg (ppm))	0186	1.7200	0.08000				1			0
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0413	1.5100	0.22000	1.6720	0.20469	0.10682	5	-0.79	5%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0227	1.5500	0.08000	1.6720	0.20469	0.10682	5	-0.60	4%	0
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0098	1.6000	0.06000	1.6720	0.20469	0.10682	5	-0.35	2%	0
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0553	1.6800	0.12000	1.6720	0.20469	0.10682	5	0.04	0%	0
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0918	2.0202	0.05410	1.6720	0.20469	0.10682	5	1.70	10%	0
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	0171	13.500	1.0000				1			0
539.42	Nickel, ICP, Open vessel (mg / kg (ppm))	0186	8.5300	0.22000				1			0
539.52	Nickel, ICP-MS, Open vessel (mg / kg (ppm))	0186	19.650	0.50000				1			0
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	0918	15.568	0.16570				2			0
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	0553	16.300	0.60000				2			0

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, 8 = Analyst data exempt and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in this case the Z Scores may be included for information only (Grey, No Action!). Flag 3 indicates not used in statistics.