

Sweet Potato Powder

Pet Food Scheme

Labs Reporting: 53

Test Material Code # 201842

Method Proficiency Testing Report

Issue Date : 06/30/2018

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			
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	7.7505	0.03500				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0027	8.0920	0.01600				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	8.1200	0.14000				3			0
001.03	Loss on Drying, Low temp. methods (%)	2124	6.9100	0.08000				2			0
001.03	Loss on Drying, Low temp. methods (%)	0619	8.5850	0.01000				2			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	7.5944	0.04560	7.9605	0.26405	0.23396	9	-1.39	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	7.6300	0.22000	7.9605	0.26405	0.23396	9	-1.25	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0845	7.8050	0.43000	7.9605	0.26405	0.23396	9	-0.59	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2187	8.0050	0.03000	7.9605	0.26405	0.23396	9	0.17	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0171	8.0300	0.04000	7.9605	0.26405	0.23396	9	0.26	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	8.0650	0.37000	7.9605	0.26405	0.23396	9	0.40	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0873	8.0750	0.07000	7.9605	0.26405	0.23396	9	0.43	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0019	8.2000	0.80000	7.9605	0.26405	0.23396	9	0.91	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2156	8.2400	0.10000	7.9605	0.26405	0.23396	9	1.06	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0630	7.0350	0.09000	7.8480	0.68753	0.06967	6	-1.18	5%	0
001.99	Loss on Drying, Miscellaneous (%)	0510	7.5500	0.10000	7.8480	0.68753	0.06967	6	-0.43	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0034	7.5700	0.08000	7.8480	0.68753	0.06967	6	-0.40	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0889	8.0350	0.07000	7.8480	0.68753	0.06967	6	0.27	1%	0
001.99	Loss on Drying, Miscellaneous (%)	2115	8.0930	0.02800	7.8480	0.68753	0.06967	6	0.36	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0676	8.8050	0.05000	7.8480	0.68753	0.06967	6	1.39	6%	0
001.99	Loss on Drying, Miscellaneous (%)	2136	8.3900	0.60000	7.8480	0.68753	0.06967	6	0.79	3%	1
002.00	Protein, Crude, Crude (%)	0845	6.6200	0.32000				1			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0619	5.0850	0.05000	5.4336	0.35354	0.04775	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0870	5.2395	0.04100	5.4336	0.35354	0.04775	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0164	5.5200	0.08000	5.4336	0.35354	0.04775	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0889	5.8900	0.02000	5.4336	0.35354	0.04775	4			0
002.04	Protein, Crude, Copper Catalyst (%)	0504	5.4950	0.67000				2			0
002.04	Protein, Crude, Copper Catalyst (%)	2122	5.7500	0.00000				2			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2115	5.1415	0.06700				2			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2167	5.1900	0.04000				2			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0047	4.9000	0.00000	5.2342	0.23914	0.09692	38	-1.40	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0676	4.9400	0.00000	5.2342	0.23914	0.09692	38	-1.23	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0650	4.9500	0.02000	5.2342	0.23914	0.09692	38	-1.19	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0074	4.9600	0.06000	5.2342	0.23914	0.09692	38	-1.15	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2124	4.9650	0.15000	5.2342	0.23914	0.09692	38	-1.13	3%	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			
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0202	5.0125	0.06300	5.2342	0.23914	0.09692	38	-0.93	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0508	5.0158	0.28720	5.2342	0.23914	0.09692	38	-0.91	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2156	5.0200	0.28000	5.2342	0.23914	0.09692	38	-0.90	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0554	5.0250	0.17000	5.2342	0.23914	0.09692	38	-0.87	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0098	5.0500	0.16000	5.2342	0.23914	0.09692	38	-0.77	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0880	5.0815	0.08300	5.2342	0.23914	0.09692	38	-0.64	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0019	5.1100	0.04000	5.2342	0.23914	0.09692	38	-0.52	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0504	5.1150	0.05000	5.2342	0.23914	0.09692	38	-0.50	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1019	5.1193	0.19100	5.2342	0.23914	0.09692	38	-0.48	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0619	5.1350	0.01000	5.2342	0.23914	0.09692	38	-0.41	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0964	5.1410	0.03000	5.2342	0.23914	0.09692	38	-0.39	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0870	5.1456	0.14230	5.2342	0.23914	0.09692	38	-0.37	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0873	5.1750	0.11000	5.2342	0.23914	0.09692	38	-0.25	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2169	5.1800	0.32000	5.2342	0.23914	0.09692	38	-0.23	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0171	5.2100	0.02000	5.2342	0.23914	0.09692	38	-0.10	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0051	5.2400	0.20000	5.2342	0.23914	0.09692	38	0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2050	5.2400	0.02000	5.2342	0.23914	0.09692	38	0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0510	5.3000	0.00000	5.2342	0.23914	0.09692	38	0.28	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0242	5.3150	0.07000	5.2342	0.23914	0.09692	38	0.34	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0164	5.3300	0.08000	5.2342	0.23914	0.09692	38	0.40	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0309	5.3324	0.09660	5.2342	0.23914	0.09692	38	0.41	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0630	5.3550	0.21000	5.2342	0.23914	0.09692	38	0.51	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2089	5.3950	0.01000	5.2342	0.23914	0.09692	38	0.67	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2207	5.4050	0.05000	5.2342	0.23914	0.09692	38	0.71	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2187	5.4050	0.09000	5.2342	0.23914	0.09692	38	0.71	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0208	5.4900	0.16000	5.2342	0.23914	0.09692	38	1.07	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0034	5.4985	0.00300	5.2342	0.23914	0.09692	38	1.11	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0553	5.5000	0.04000	5.2342	0.23914	0.09692	38	1.11	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0511	5.5100	0.12000	5.2342	0.23914	0.09692	38	1.15	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0407	5.5540	0.28400	5.2342	0.23914	0.09692	38	1.34	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0001	5.6065	0.06300	5.2342	0.23914	0.09692	38	1.56	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0958	5.6300	0.00000	5.2342	0.23914	0.09692	38	1.66	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2162	5.6400	0.00000	5.2342	0.23914	0.09692	38	1.70	4%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0615	7.3850	0.25000	5.2342	0.23914	0.09692	38	8.99	21%	2
002.08	Protein, Crude, Cu/Ti (%)	2136	5.1400	0.02000				1			0
002.10	Protein, Crude, Block dig/distillation (%)	0028	5.1300	0.12000				1			0
002.99	Protein, Crude, Miscellaneous (%)	2033	5.5550	0.13000				1			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2115	0.12800	0.00200				1			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	0504	0.91000	0.08000				1			0
003.06	Fat, Crude, Pet Ether (%)	0164	0.11500	0.01000				3			0
003.06	Fat, Crude, Pet Ether (%)	0511	0.15000	0.02000				3			0
003.06	Fat, Crude, Pet Ether (%)	2187	0.41000	0.14000				3			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			
003.06	Fat, Crude, Pet Ether (%)	2033	< 0.05					3			5
003.06	Fat, Crude, Pet Ether (%)	2136	< 0.1					3			5
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0508	0.32050	0.00980				3			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0630	0.42500	0.11000				3			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	0.49500	0.05000				3			0
003.10	Fat, Crude, Randall, Pet Ether (%)	0619	0.05600	0.00600	0.15093	0.08637	0.04800	7	-1.10	31%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2162	0.08000	0.00000	0.15093	0.08637	0.04800	7	-0.82	23%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	0.11500	0.03000	0.15093	0.08637	0.04800	7	-0.42	12%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0889	0.16000	0.02000	0.15093	0.08637	0.04800	7	0.11	3%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0242	0.16500	0.01000	0.15093	0.08637	0.04800	7	0.16	5%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0051	0.20000	0.20000	0.15093	0.08637	0.04800	7	0.57	16%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0676	0.36500	0.07000	0.15093	0.08637	0.04800	7	2.48	71%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0553	0.09500	0.19000	0.15093	0.08637	0.04800	7			4
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	< 0.5		0.15093	0.08637	0.04800	7			5
003.12	Fat, Crude, Hexane Ext (%)	0171	0.07500	0.03000				1			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	0.18000	0.08000				2			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2089	1.0300	0.02000				2			0
003.14	Fat, Crude, Ankom (%)	0202	0.12050	0.02300	0.34832	0.31540	0.07223	7	-0.72	33%	0
003.14	Fat, Crude, Ankom (%)	2115	0.14900	0.00800	0.34832	0.31540	0.07223	7	-0.63	29%	0
003.14	Fat, Crude, Ankom (%)	0074	0.17000	0.16000	0.34832	0.31540	0.07223	7	-0.57	26%	0
003.14	Fat, Crude, Ankom (%)	0407	0.19430	0.01060	0.34832	0.31540	0.07223	7	-0.49	22%	0
003.14	Fat, Crude, Ankom (%)	0019	0.33000	0.22000	0.34832	0.31540	0.07223	7	-0.06	3%	0
003.14	Fat, Crude, Ankom (%)	0619	0.65300	0.04400	0.34832	0.31540	0.07223	7	0.97	44%	0
003.14	Fat, Crude, Ankom (%)	2207	0.89000	0.04000	0.34832	0.31540	0.07223	7	1.72	78%	0
003.99	Fat, Crude, Miscellaneous (%)	0880	1.3000	0.40000				2			0
003.99	Fat, Crude, Miscellaneous (%)	1019	1.8650	0.33000				2			0
004.00	Fiber, Crude, Asbestos Free (%)	0171	2.2500	0.00000	2.5904	0.23152	0.05079	7	-1.47	7%	0
004.00	Fiber, Crude, Asbestos Free (%)	0309	2.4779	0.04550	2.5904	0.23152	0.05079	7	-0.49	2%	0
004.00	Fiber, Crude, Asbestos Free (%)	0511	2.5500	0.10000	2.5904	0.23152	0.05079	7	-0.17	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0504	2.5950	0.05000	2.5904	0.23152	0.05079	7	0.02	0%	0
004.00	Fiber, Crude, Asbestos Free (%)	0164	2.6000	0.00000	2.5904	0.23152	0.05079	7	0.04	0%	0
004.00	Fiber, Crude, Asbestos Free (%)	0208	2.7800	0.06000	2.5904	0.23152	0.05079	7	0.82	4%	0
004.00	Fiber, Crude, Asbestos Free (%)	2167	2.8800	0.10000	2.5904	0.23152	0.05079	7	1.25	6%	0
004.03	Fiber, Crude, Fritted Glass (%)	2089	1.5350	0.11000				1			0
004.06	Fiber, Crude, Fibertec (%)	2115	2.4615	0.11900	2.9166	0.43470	0.20225	4			0
004.06	Fiber, Crude, Fibertec (%)	0098	2.6600	0.02000	2.9166	0.43470	0.20225	4			0
004.06	Fiber, Crude, Fibertec (%)	0676	3.1300	0.16000	2.9166	0.43470	0.20225	4			0
004.06	Fiber, Crude, Fibertec (%)	0845	3.4150	0.51000	2.9166	0.43470	0.20225	4			0
004.07	Fiber, Crude, ANKOM (%)	0202	1.6055	0.05500	2.4830	0.38027	0.14774	14	-2.31	18%	0
004.07	Fiber, Crude, ANKOM (%)	0870	2.0945	0.07580	2.4830	0.38027	0.14774	14	-1.02	8%	0
004.07	Fiber, Crude, ANKOM (%)	0510	2.2000	0.20000	2.4830	0.38027	0.14774	14	-0.74	6%	0
004.07	Fiber, Crude, ANKOM (%)	0619	2.2600	0.02000	2.4830	0.38027	0.14774	14	-0.59	4%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
004.07	Fiber, Crude, ANKOM (%)	0242	2.2950	0.01000	2.4830	0.38027	0.14774	14	-0.49	4%	0
004.07	Fiber, Crude, ANKOM (%)	2207	2.4000	0.26000	2.4830	0.38027	0.14774	14	-0.22	2%	0
004.07	Fiber, Crude, ANKOM (%)	0028	2.4500	0.30000	2.4830	0.38027	0.14774	14	-0.09	1%	0
004.07	Fiber, Crude, ANKOM (%)	0553	2.4650	0.03000	2.4830	0.38027	0.14774	14	-0.05	0%	0
004.07	Fiber, Crude, ANKOM (%)	2115	2.4935	0.07500	2.4830	0.38027	0.14774	14	0.03	0%	0
004.07	Fiber, Crude, ANKOM (%)	0407	2.5585	0.15260	2.4830	0.38027	0.14774	14	0.20	2%	0
004.07	Fiber, Crude, ANKOM (%)	2136	2.7500	0.10000	2.4830	0.38027	0.14774	14	0.70	5%	0
004.07	Fiber, Crude, ANKOM (%)	0019	2.7800	0.28000	2.4830	0.38027	0.14774	14	0.78	6%	0
004.07	Fiber, Crude, ANKOM (%)	2124	3.0500	0.34000	2.4830	0.38027	0.14774	14	1.49	11%	0
004.07	Fiber, Crude, ANKOM (%)	0074	3.1550	0.17000	2.4830	0.38027	0.14774	14	1.77	14%	0
004.99	Fiber, Crude, Miscellaneous (%)	2033	2.3000	0.00000				1			0
005.00	Ash, 2h @ 600°C (%)	0510	4.1950	0.01000	4.5986	0.14484	0.09169	30	-2.79	4%	0
005.00	Ash, 2h @ 600°C (%)	0958	4.3850	0.09000	4.5986	0.14484	0.09169	30	-1.47	2%	0
005.00	Ash, 2h @ 600°C (%)	0051	4.4000	0.20000	4.5986	0.14484	0.09169	30	-1.37	2%	0
005.00	Ash, 2h @ 600°C (%)	0019	4.4500	0.10000	4.5986	0.14484	0.09169	30	-1.03	2%	0
005.00	Ash, 2h @ 600°C (%)	0001	4.4516	0.16340	4.5986	0.14484	0.09169	30	-1.01	2%	0
005.00	Ash, 2h @ 600°C (%)	2156	4.4550	0.21000	4.5986	0.14484	0.09169	30	-0.99	2%	0
005.00	Ash, 2h @ 600°C (%)	0845	4.4650	0.03000	4.5986	0.14484	0.09169	30	-0.92	1%	0
005.00	Ash, 2h @ 600°C (%)	2207	4.5100	0.04000	4.5986	0.14484	0.09169	30	-0.61	1%	0
005.00	Ash, 2h @ 600°C (%)	0309	4.5140	0.02000	4.5986	0.14484	0.09169	30	-0.58	1%	0
005.00	Ash, 2h @ 600°C (%)	0511	4.5550	0.09000	4.5986	0.14484	0.09169	30	-0.30	0%	0
005.00	Ash, 2h @ 600°C (%)	0407	4.5590	0.14040	4.5986	0.14484	0.09169	30	-0.27	0%	0
005.00	Ash, 2h @ 600°C (%)	0630	4.5650	0.03000	4.5986	0.14484	0.09169	30	-0.23	0%	0
005.00	Ash, 2h @ 600°C (%)	0098	4.5800	0.08000	4.5986	0.14484	0.09169	30	-0.13	0%	0
005.00	Ash, 2h @ 600°C (%)	2162	4.5900	0.22000	4.5986	0.14484	0.09169	30	-0.06	0%	0
005.00	Ash, 2h @ 600°C (%)	0880	4.6000	0.04000	4.5986	0.14484	0.09169	30	0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	2124	4.6000	0.08000	4.5986	0.14484	0.09169	30	0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0027	4.6125	0.36300	4.5986	0.14484	0.09169	30	0.10	0%	0
005.00	Ash, 2h @ 600°C (%)	0171	4.6150	0.07000	4.5986	0.14484	0.09169	30	0.11	0%	0
005.00	Ash, 2h @ 600°C (%)	0208	4.6300	0.10000	4.5986	0.14484	0.09169	30	0.22	0%	0
005.00	Ash, 2h @ 600°C (%)	0504	4.6300	0.14000	4.5986	0.14484	0.09169	30	0.22	0%	0
005.00	Ash, 2h @ 600°C (%)	0047	4.6500	0.10000	4.5986	0.14484	0.09169	30	0.36	1%	0
005.00	Ash, 2h @ 600°C (%)	0164	4.6650	0.01000	4.5986	0.14484	0.09169	30	0.46	1%	0
005.00	Ash, 2h @ 600°C (%)	0615	4.6950	0.17000	4.5986	0.14484	0.09169	30	0.67	1%	0
005.00	Ash, 2h @ 600°C (%)	0873	4.7050	0.01000	4.5986	0.14484	0.09169	30	0.73	1%	0
005.00	Ash, 2h @ 600°C (%)	0553	4.7350	0.03000	4.5986	0.14484	0.09169	30	0.94	1%	0
005.00	Ash, 2h @ 600°C (%)	0870	4.7471	0.05400	4.5986	0.14484	0.09169	30	1.03	2%	0
005.00	Ash, 2h @ 600°C (%)	0650	4.7800	0.06000	4.5986	0.14484	0.09169	30	1.25	2%	0
005.00	Ash, 2h @ 600°C (%)	2089	4.8000	0.00000	4.5986	0.14484	0.09169	30	1.39	2%	0
005.00	Ash, 2h @ 600°C (%)	2115	4.8650	0.07000	4.5986	0.14484	0.09169	30	1.84	3%	0
005.00	Ash, 2h @ 600°C (%)	0242	5.0350	0.03000	4.5986	0.14484	0.09169	30	3.01	5%	0
005.00	Ash, 2h @ 600°C (%)	1019	3.8457	1.3913	4.5986	0.14484	0.09169	30	-5.20	8%	1

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005.03	Ash, Microwave furnace (%)	2187	4.7150	0.05000				1			0
005.05	Ash, 3h @ 550°C (%)	0889	4.3650	0.21000	4.5040	0.09959	0.10800	5			0
005.05	Ash, 3h @ 550°C (%)	0845	4.4650	0.03000	4.5040	0.09959	0.10800	5			0
005.05	Ash, 3h @ 550°C (%)	2050	4.4900	0.22000	4.5040	0.09959	0.10800	5			0
005.05	Ash, 3h @ 550°C (%)	2167	4.5900	0.00000	4.5040	0.09959	0.10800	5			0
005.05	Ash, 3h @ 550°C (%)	0619	4.6100	0.08000	4.5040	0.09959	0.10800	5			0
005.99	Ash, Miscellaneous (%)	2033	4.6200	0.02000	4.8033	0.19786	0.11480	4			0
005.99	Ash, Miscellaneous (%)	0202	4.7305	0.07100	4.8033	0.19786	0.11480	4			0
005.99	Ash, Miscellaneous (%)	0676	4.7800	0.06000	4.8033	0.19786	0.11480	4			0
005.99	Ash, Miscellaneous (%)	2169	5.0826	0.30820	4.8033	0.19786	0.11480	4			0
006.00	Total Sugars, As sucrose (%)	0407	30.220	0.02000				1			0
006.99	Total Sugars, Miscellaneous (%)	2114	31.965	0.15000				2			0
006.99	Total Sugars, Miscellaneous (%)	2136	34.850	2.5000				2			0
008.02	Fiber, Acid Detergent, Crucible (%)	0098	4.3550	0.51000	5.1137	0.85671	0.27726	5			0
008.02	Fiber, Acid Detergent, Crucible (%)	0504	4.4350	0.15000	5.1137	0.85671	0.27726	5			0
008.02	Fiber, Acid Detergent, Crucible (%)	0676	4.8650	0.45000	5.1137	0.85671	0.27726	5			0
008.02	Fiber, Acid Detergent, Crucible (%)	0964	5.5005	0.23500	5.1137	0.85671	0.27726	5			0
008.02	Fiber, Acid Detergent, Crucible (%)	0309	6.4130	0.04130	5.1137	0.85671	0.27726	5			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0619	3.3250	0.31000	4.6243	1.6170	0.18980	6	-0.80	14%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2115	3.4500	0.16000	4.6243	1.6170	0.18980	6	-0.73	13%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	3.7430	0.02870	4.6243	1.6170	0.18980	6	-0.55	10%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0407	5.0280	0.11010	4.6243	1.6170	0.18980	6	0.25	4%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0889	5.1500	0.22000	4.6243	1.6170	0.18980	6	0.33	6%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0001	7.1550	0.31000	4.6243	1.6170	0.18980	6	1.57	27%	0
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	0504	4.9550	0.19000				1			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0309	4.6853	0.34120	6.6445	1.7820	0.16305	4			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0098	6.3700	0.18000	6.6445	1.7820	0.16305	4			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0964	6.5125	0.09100	6.6445	1.7820	0.16305	4			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0676	9.0100	0.04000	6.6445	1.7820	0.16305	4			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	2.4229	0.03460	6.2163	3.1005	0.15218	6	-1.22	31%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0001	5.2250	0.17000	6.2163	3.1005	0.15218	6	-0.32	8%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0407	5.8481	0.21850	6.2163	3.1005	0.15218	6	-0.12	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2115	6.2300	0.12000	6.2163	3.1005	0.15218	6	0.00	0%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0889	6.7050	0.07000	6.2163	3.1005	0.15218	6	0.16	4%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0619	10.950	0.30000	6.2163	3.1005	0.15218	6	1.53	38%	0
010.99	Moisture, Miscellaneous (%)	0964	7.6700	0.28200	8.5159	0.77755	0.19597	6	-1.09	5%	0
010.99	Moisture, Miscellaneous (%)	0028	8.0100	0.04000	8.5159	0.77755	0.19597	6	-0.65	3%	0
010.99	Moisture, Miscellaneous (%)	2089	8.4000	0.28000	8.5159	0.77755	0.19597	6	-0.15	1%	0
010.99	Moisture, Miscellaneous (%)	2169	8.6305	0.38380	8.5159	0.77755	0.19597	6	0.15	1%	0
010.99	Moisture, Miscellaneous (%)	2033	8.7250	0.11000	8.5159	0.77755	0.19597	6	0.27	1%	0
010.99	Moisture, Miscellaneous (%)	2167	9.6600	0.08000	8.5159	0.77755	0.19597	6	1.47	7%	0
011.01	Loss on Drying, 135°C 2hr (%)	1019	7.2800	0.56000	10.240	0.77329	0.19005	21	-3.83	14%	0

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011.01	Loss on Drying, 135°C 2hr (%)	0202	9.1980	0.05800	10.240	0.77329	0.19005	21	-1.35	5%	0
011.01	Loss on Drying, 135°C 2hr (%)	2162	9.2600	0.08000	10.240	0.77329	0.19005	21	-1.27	5%	0
011.01	Loss on Drying, 135°C 2hr (%)	0870	9.6829	0.00510	10.240	0.77329	0.19005	21	-0.72	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	0098	9.7500	0.08000	10.240	0.77329	0.19005	21	-0.63	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0208	9.8800	0.06000	10.240	0.77329	0.19005	21	-0.47	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0553	10.045	0.33000	10.240	0.77329	0.19005	21	-0.25	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0407	10.048	0.01790	10.240	0.77329	0.19005	21	-0.25	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0051	10.085	0.37000	10.240	0.77329	0.19005	21	-0.20	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0164	10.100	0.28000	10.240	0.77329	0.19005	21	-0.18	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0511	10.140	0.18000	10.240	0.77329	0.19005	21	-0.13	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0171	10.200	0.06000	10.240	0.77329	0.19005	21	-0.05	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0615	10.205	0.19000	10.240	0.77329	0.19005	21	-0.05	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0510	10.300	0.00000	10.240	0.77329	0.19005	21	0.08	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	2207	10.345	0.05000	10.240	0.77329	0.19005	21	0.14	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0958	10.635	0.39000	10.240	0.77329	0.19005	21	0.51	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0242	10.940	0.10000	10.240	0.77329	0.19005	21	0.91	3%	0
011.01	Loss on Drying, 135°C 2hr (%)	0309	11.115	0.01000	10.240	0.77329	0.19005	21	1.13	4%	0
011.01	Loss on Drying, 135°C 2hr (%)	0650	11.230	0.12000	10.240	0.77329	0.19005	21	1.28	5%	0
011.01	Loss on Drying, 135°C 2hr (%)	0880	11.805	0.45000	10.240	0.77329	0.19005	21	2.02	8%	0
011.01	Loss on Drying, 135°C 2hr (%)	0047	11.900	0.60000	10.240	0.77329	0.19005	21	2.15	8%	0
011.02	Loss on Drying, 130°C for 2 hours (%)	2083	10.210	0.02000				2			0
011.02	Loss on Drying, 130°C for 2 hours (%)	0554	11.050	0.10000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	0619	33.400	0.40000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	0164	34.250	0.10000				2			0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0164	34.250	0.70000				2			0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0870	59.666	4.1245				2			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	0407	37.520	0.70000				3			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	0098	40.200	1.8000				3			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	0889	65.090	0.16000				3			0
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	0510	33.350	0.90000				1			0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	2115	0.17100	0.00800	0.56635	0.32777	0.07678	5			0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0309	0.26225	0.00490	0.56635	0.32777	0.07678	5			0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0242	0.74000	0.18000	0.56635	0.32777	0.07678	5			0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	2156	0.75000	0.04000	0.56635	0.32777	0.07678	5			0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0202	0.90850	0.15100	0.56635	0.32777	0.07678	5			0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0098	0.50000	0.04000	0.68565	0.15246	0.09602	12	-1.22	14%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0873	0.55000	0.04000	0.68565	0.15246	0.09602	12	-0.89	10%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0208	0.55100	0.14600	0.68565	0.15246	0.09602	12	-0.88	10%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0958	0.55500	0.11000	0.68565	0.15246	0.09602	12	-0.86	10%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0171	0.61500	0.11000	0.68565	0.15246	0.09602	12	-0.46	5%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0870	0.61935	0.03630	0.68565	0.15246	0.09602	12	-0.43	5%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0676	0.73500	0.05000	0.68565	0.15246	0.09602	12	0.32	4%	0

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013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0553	0.75000	0.20000	0.68565	0.15246	0.09602	12	0.42	5%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0650	0.81000	0.18000	0.68565	0.15246	0.09602	12	0.82	9%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0164	0.83500	0.03000	0.68565	0.15246	0.09602	12	0.98	11%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	0001	0.83745	0.02990	0.68565	0.15246	0.09602	12	1.00	11%	0
013.02	Fat, Acid Pretreat, Mojonniier, Bak Ext (%)	2207	0.87000	0.18000	0.68565	0.15246	0.09602	12	1.21	13%	0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2162	0.14500	0.11000	0.35125	0.16007	0.07750	4			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	0845	0.35000	0.02000	0.35125	0.16007	0.07750	4			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	0554	0.37500	0.15000	0.35125	0.16007	0.07750	4			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2167	0.53500	0.03000	0.35125	0.16007	0.07750	4			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2124	< 0.1		0.35125	0.16007	0.07750	4			5
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	0407	0.54310	0.05000				1			0
014.99	Fiber, Total Dietary, Miscellaneous (%)	0164	8.8000	0.20000				1			0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0171	0.49200	0.81600				1			0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0510	9.0000	0.00000				1			0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0510	2.0000	0.00000				1			0
019.00	Calcium, Ox-Mn04 Vol. (%)	2115	0.07400	0.00400				1			0
019.31	Calcium, AAS, Dry ash (%)	0650	0.05900	0.00000				2			0
019.31	Calcium, AAS, Dry ash (%)	0001	0.09495	0.00930				2			0
019.32	Calcium, AAS, Open vessel (%)	0504	0.12110	0.01380				1			0
019.33	Calcium, AAS, Microwave (%)	0504	0.08150	0.00100				1			0
019.41	Calcium, ICP, Dry ash (%)	0098	0.07300	0.00060	0.08239	0.00915	0.00114	8	-1.03	6%	0
019.41	Calcium, ICP, Dry ash (%)	0171	0.07450	0.00100	0.08239	0.00915	0.00114	8	-0.86	5%	0
019.41	Calcium, ICP, Dry ash (%)	0019	0.08000	0.00000	0.08239	0.00915	0.00114	8	-0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0051	0.08000	0.00000	0.08239	0.00915	0.00114	8	-0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0074	0.08000	0.00000	0.08239	0.00915	0.00114	8	-0.26	1%	0
019.41	Calcium, ICP, Dry ash (%)	0164	0.08300	0.00200	0.08239	0.00915	0.00114	8	0.07	0%	0
019.41	Calcium, ICP, Dry ash (%)	0407	0.09315	0.00250	0.08239	0.00915	0.00114	8	1.18	7%	0
019.41	Calcium, ICP, Dry ash (%)	0208	0.09550	0.00300	0.08239	0.00915	0.00114	8	1.43	8%	0
019.41	Calcium, ICP, Dry ash (%)	0511	0.06500	0.01000	0.08239	0.00915	0.00114	8	-1.90	11%	1
019.42	Calcium, ICP, Open vessel (%)	0870	0.09595	0.00350				3			0
019.42	Calcium, ICP, Open vessel (%)	0504	0.10550	0.01100				3			0
019.42	Calcium, ICP, Open vessel (%)	2207	0.11500	0.01000				3			0
019.43	Calcium, ICP, Microwave (%)	0510	0.09000	0.00000	0.10291	0.00818	0.00250	11	-1.58	6%	0
019.43	Calcium, ICP, Microwave (%)	2089	0.09500	0.01000	0.10291	0.00818	0.00250	11	-0.97	4%	0
019.43	Calcium, ICP, Microwave (%)	2033	0.09700	0.00200	0.10291	0.00818	0.00250	11	-0.72	3%	0
019.43	Calcium, ICP, Microwave (%)	0098	0.09920	0.00160	0.10291	0.00818	0.00250	11	-0.45	2%	0
019.43	Calcium, ICP, Microwave (%)	0964	0.09920	0.00040	0.10291	0.00818	0.00250	11	-0.45	2%	0
019.43	Calcium, ICP, Microwave (%)	2136	0.10250	0.00100	0.10291	0.00818	0.00250	11	-0.05	0%	0
019.43	Calcium, ICP, Microwave (%)	0034	0.10645	0.00430	0.10291	0.00818	0.00250	11	0.43	2%	0
019.43	Calcium, ICP, Microwave (%)	0027	0.11000	0.00200	0.10291	0.00818	0.00250	11	0.87	3%	0
019.43	Calcium, ICP, Microwave (%)	2124	0.11000	0.00000	0.10291	0.00818	0.00250	11	0.87	3%	0
019.43	Calcium, ICP, Microwave (%)	0202	0.11050	0.00500	0.10291	0.00818	0.00250	11	0.93	4%	0

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019.43	Calcium, ICP, Microwave (%)	2187	0.11150	0.00120	0.10291	0.00818	0.00250	11	1.05	4%	0
019.44	Calcium, ICP, Dry ash (%)	0873	0.08000	0.00000				2			0
019.44	Calcium, ICP, Dry ash (%)	2156	0.08000	0.00000				2			0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	1.1100	0.04000				1			0
019.53	Calcium, ICP-MS, Microwave (%)	0553	0.11350	0.01700				1			0
019.99	Calcium, Miscellaneous (%)	0676	0.07000	0.00000				3			0
019.99	Calcium, Miscellaneous (%)	0619	0.09150	0.00100				3			0
019.99	Calcium, Miscellaneous (%)	0242	0.12000	0.00000				3			0
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	0164	< 0.75					0			5
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0			5
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0510	0.07000	0.00000				1			0
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	0553	0.00930	0.00080				1			0
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	0504	3.2900	0.73200				1			0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0171	0.35800	0.00000	1.3320	0.58959	0.40023	6	-1.65	37%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0619	1.0500	0.00000	1.3320	0.58959	0.40023	6	-0.48	11%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0051	1.4300	0.14000	1.3320	0.58959	0.40023	6	0.17	4%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0074	1.5000	1.0000	1.3320	0.58959	0.40023	6	0.28	6%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0407	1.6296	0.97140	1.3320	0.58959	0.40023	6	0.50	11%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0019	1.9350	0.29000	1.3320	0.58959	0.40023	6	1.02	23%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0164	< 1		1.3320	0.58959	0.40023	6			5
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0098	< 1.24		1.3320	0.58959	0.40023	6			5
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0870	3.5425	0.09300				2			0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0504	3.9910	0.38200				2			0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	2207	< 5					2			5
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2089	2.5700	0.88000	4.3146	2.0453	0.52733	6	-0.85	20%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0510	3.0000	0.00000	4.3146	2.0453	0.52733	6	-0.64	15%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0098	3.4950	0.31000	4.3146	2.0453	0.52733	6	-0.40	9%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2124	3.9850	0.27000	4.3146	2.0453	0.52733	6	-0.16	4%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0202	5.4550	0.20400	4.3146	2.0453	0.52733	6	0.56	13%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0042	11.850	1.5000	4.3146	2.0453	0.52733	6	3.68	87%	0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0553	3.8300	0.10000				1			0
022.99	Copper, Miscellaneous (mg / kg (ppm))	0242	3.0000	0.00000				1			0
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	0504	14.940	1.1000				1			0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0511	3.0000	0.00000	9.1829	3.6573	1.9195	9	-1.69	34%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0051	6.0000	0.00000	9.1829	3.6573	1.9195	9	-0.87	17%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0619	7.2050	0.07000	9.1829	3.6573	1.9195	9	-0.54	11%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0074	9.0000	6.0000	9.1829	3.6573	1.9195	9	-0.05	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0019	9.3600	2.3800	9.1829	3.6573	1.9195	9	0.05	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0164	10.500	5.0000	9.1829	3.6573	1.9195	9	0.36	7%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0407	10.960	0.95510	9.1829	3.6573	1.9195	9	0.49	10%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0208	11.255	1.2900	9.1829	3.6573	1.9195	9	0.57	11%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0171	44.430	1.5800	9.1829	3.6573	1.9195	9	9.64	192%	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			
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0504	14.525	0.33000				2			0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0870	18.315	0.97000				2			0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	2207	< 20					2			5
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2124	15.085	0.53000	28.196	22.395	2.8817	6	-0.59	23%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0510	15.500	1.0000	28.196	22.395	2.8817	6	-0.57	23%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2136	16.050	0.50000	28.196	22.395	2.8817	6	-0.54	22%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2033	17.500	1.0000	28.196	22.395	2.8817	6	-0.48	19%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0042	43.250	3.7000	28.196	22.395	2.8817	6	0.67	27%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2089	68.350	10.560	28.196	22.395	2.8817	6	1.79	71%	0
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	0047	14.880	0.32000				1			0
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	0553	14.650	0.10000				1			0
025.99	Iron, Miscellaneous (mg / kg (ppm))	0242	16.500	1.0000				1			0
027.31	Magnesium, AAS, Dry ash (%)	0650	0.01900	0.00600				2			0
027.31	Magnesium, AAS, Dry ash (%)	0001	0.03800	0.00920				2			0
027.32	Magnesium, AAS, Open vessel (%)	0504	0.04340	0.00180				1			0
027.33	Magnesium, AAS, Microwave (%)	0504	0.04330	0.00600				1			0
027.41	Magnesium, ICP, Dry ash (%)	0511	0.02000	0.00000	0.03358	0.01051	0.00093	10	-1.29	20%	0
027.41	Magnesium, ICP, Dry ash (%)	0051	0.02560	0.00320	0.03358	0.01051	0.00093	10	-0.76	12%	0
027.41	Magnesium, ICP, Dry ash (%)	0074	0.02600	0.00000	0.03358	0.01051	0.00093	10	-0.72	11%	0
027.41	Magnesium, ICP, Dry ash (%)	0171	0.02650	0.00100	0.03358	0.01051	0.00093	10	-0.67	11%	0
027.41	Magnesium, ICP, Dry ash (%)	0098	0.03215	0.00170	0.03358	0.01051	0.00093	10	-0.14	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0619	0.03500	0.00000	0.03358	0.01051	0.00093	10	0.14	2%	0
027.41	Magnesium, ICP, Dry ash (%)	0164	0.03800	0.00000	0.03358	0.01051	0.00093	10	0.42	7%	0
027.41	Magnesium, ICP, Dry ash (%)	0407	0.03870	0.00080	0.03358	0.01051	0.00093	10	0.49	8%	0
027.41	Magnesium, ICP, Dry ash (%)	0208	0.04450	0.00100	0.03358	0.01051	0.00093	10	1.04	16%	0
027.41	Magnesium, ICP, Dry ash (%)	0964	0.05280	0.00160	0.03358	0.01051	0.00093	10	1.83	29%	0
027.41	Magnesium, ICP, Dry ash (%)	0019	0.02500	0.01000	0.03358	0.01051	0.00093	10	-0.82	13%	1
027.42	Magnesium, ICP, Open vessel (%)	0870	0.04370	0.00040				3			0
027.42	Magnesium, ICP, Open vessel (%)	2207	0.05000	0.00000				3			0
027.42	Magnesium, ICP, Open vessel (%)	0504	0.05150	0.00300				3			0
027.43	Magnesium, ICP, Microwave (%)	0042	0.04750	0.00100	0.05160	0.00309	0.00083	11	-1.33	4%	0
027.43	Magnesium, ICP, Microwave (%)	0098	0.04860	0.00120	0.05160	0.00309	0.00083	11	-0.97	3%	0
027.43	Magnesium, ICP, Microwave (%)	0510	0.05000	0.00000	0.05160	0.00309	0.00083	11	-0.52	2%	0
027.43	Magnesium, ICP, Microwave (%)	2089	0.05000	0.00000	0.05160	0.00309	0.00083	11	-0.52	2%	0
027.43	Magnesium, ICP, Microwave (%)	2124	0.05000	0.00000	0.05160	0.00309	0.00083	11	-0.52	2%	0
027.43	Magnesium, ICP, Microwave (%)	0027	0.05150	0.00100	0.05160	0.00309	0.00083	11	-0.03	0%	0
027.43	Magnesium, ICP, Microwave (%)	2136	0.05185	0.00130	0.05160	0.00309	0.00083	11	0.08	0%	0
027.43	Magnesium, ICP, Microwave (%)	2033	0.05250	0.00100	0.05160	0.00309	0.00083	11	0.29	1%	0
027.43	Magnesium, ICP, Microwave (%)	0034	0.05470	0.00100	0.05160	0.00309	0.00083	11	1.00	3%	0
027.43	Magnesium, ICP, Microwave (%)	0202	0.05550	0.00100	0.05160	0.00309	0.00083	11	1.26	4%	0
027.43	Magnesium, ICP, Microwave (%)	2187	0.05550	0.00160	0.05160	0.00309	0.00083	11	1.26	4%	0
027.44	Magnesium, ICP, Dry ash (%)	0873	0.03050	0.00100				2			0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
027.44	Magnesium, ICP, Dry ash (%)	2156	0.03250	0.00100				2			0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	0.05300	0.00000				1			0
027.53	Magnesium, ICP-MS, Microwave (%)	0553	0.05260	0.00360				1			0
027.99	Magnesium, Miscellaneous (%)	0242	0.05000	0.00000				1			0
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	0504	6.6925	0.18300				1			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0511	2.0000	0.00000	3.3643	1.1131	0.35816	10	-1.23	20%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0051	2.4550	0.53000	3.3643	1.1131	0.35816	10	-0.82	14%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0074	2.5000	1.0000	3.3643	1.1131	0.35816	10	-0.78	13%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0171	2.8195	0.11700	3.3643	1.1131	0.35816	10	-0.49	8%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0098	3.2150	0.03000	3.3643	1.1131	0.35816	10	-0.13	2%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0019	3.2800	1.1200	3.3643	1.1131	0.35816	10	-0.08	1%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0619	3.7400	0.14000	3.3643	1.1131	0.35816	10	0.34	6%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0164	3.9500	0.30000	3.3643	1.1131	0.35816	10	0.53	9%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0407	4.6697	0.28860	3.3643	1.1131	0.35816	10	1.17	19%	0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0208	5.0140	0.05600	3.3643	1.1131	0.35816	10	1.48	25%	0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0870	6.8200	0.22600				2			0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0504	7.2830	0.14400				2			0
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	2207	< 5					2			5
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0042	6.6950	2.2900	7.3555	0.62427	0.38486	9	-1.06	4%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2058	6.8600	0.36000	7.3555	0.62427	0.38486	9	-0.79	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2089	6.8850	0.03000	7.3555	0.62427	0.38486	9	-0.75	3%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0510	7.0000	0.00000	7.3555	0.62427	0.38486	9	-0.57	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0964	7.3025	0.00870	7.3555	0.62427	0.38486	9	-0.08	0%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0098	7.4900	0.30000	7.3555	0.62427	0.38486	9	0.22	1%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2033	7.7100	0.10000	7.3555	0.62427	0.38486	9	0.57	2%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2124	7.9650	0.13000	7.3555	0.62427	0.38486	9	0.98	4%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0202	8.9555	0.24500	7.3555	0.62427	0.38486	9	2.56	11%	0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0027	75,195	970.00	7.3555	0.62427	0.38486	9	120441.31	511099%	2
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	0047	7.1650	0.21000				1			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	2136	6.7450	0.19000				2			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	0553	7.1250	0.69000				2			0
028.99	Manganese, Miscellaneous (mg / kg (ppm))	0242	8.0000	0.00000				1			0
031.01	Phosphorus, Photometric (%)	0511	0.06500	0.01000	0.07680	0.00785	0.00360	5			0
031.01	Phosphorus, Photometric (%)	0650	0.07400	0.00600	0.07680	0.00785	0.00360	5			0
031.01	Phosphorus, Photometric (%)	2115	0.07900	0.00000	0.07680	0.00785	0.00360	5			0
031.01	Phosphorus, Photometric (%)	2156	0.08000	0.00000	0.07680	0.00785	0.00360	5			0
031.01	Phosphorus, Photometric (%)	0208	0.08600	0.00200	0.07680	0.00785	0.00360	5			0
031.03	Phosphorus, Autoanalyzer (%)	0001	0.07000	0.01000				1			0
031.41	Phosphorus, ICP, Dry ash (%)	0019	0.07000	0.00000	0.08082	0.00859	0.00153	9	-1.26	7%	0
031.41	Phosphorus, ICP, Dry ash (%)	0051	0.07095	0.00170	0.08082	0.00859	0.00153	9	-1.15	6%	0
031.41	Phosphorus, ICP, Dry ash (%)	0098	0.07620	0.00020	0.08082	0.00859	0.00153	9	-0.54	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0074	0.08100	0.00200	0.08082	0.00859	0.00153	9	0.02	0%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
031.41	Phosphorus, ICP, Dry ash (%)	0171	0.08100	0.00000	0.08082	0.00859	0.00153	9	0.02	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0164	0.08300	0.00400	0.08082	0.00859	0.00153	9	0.25	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0407	0.08455	0.00290	0.08082	0.00859	0.00153	9	0.43	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0208	0.08700	0.00200	0.08082	0.00859	0.00153	9	0.72	4%	0
031.41	Phosphorus, ICP, Dry ash (%)	0619	0.09650	0.00100	0.08082	0.00859	0.00153	9	1.83	10%	0
031.42	Phosphorus, ICP, Open vessel (%)	0870	0.07630	0.00040				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0504	0.08950	0.00900				3			0
031.42	Phosphorus, ICP, Open vessel (%)	2207	0.09000	0.00000				3			0
031.43	Phosphorus, ICP, Microwave (%)	0042	0.08300	0.00600	0.09080	0.00525	0.00222	11	-1.49	4%	0
031.43	Phosphorus, ICP, Microwave (%)	2033	0.08675	0.00050	0.09080	0.00525	0.00222	11	-0.77	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0027	0.08850	0.00100	0.09080	0.00525	0.00222	11	-0.44	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2187	0.08940	0.00060	0.09080	0.00525	0.00222	11	-0.27	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	0.08985	0.00630	0.09080	0.00525	0.00222	11	-0.18	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	0.09000	0.00000	0.09080	0.00525	0.00222	11	-0.15	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	0.09000	0.00000	0.09080	0.00525	0.00222	11	-0.15	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0964	0.09150	0.00020	0.09080	0.00525	0.00222	11	0.13	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0202	0.09250	0.00300	0.09080	0.00525	0.00222	11	0.32	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0034	0.09870	0.00680	0.09080	0.00525	0.00222	11	1.50	4%	0
031.43	Phosphorus, ICP, Microwave (%)	2124	0.10000	0.00000	0.09080	0.00525	0.00222	11	1.75	5%	0
031.44	Phosphorus, ICP, Dry ash (%)	0873	0.07500	0.01000				1			0
031.53	Phosphorus, ICP-MS, Microwave (%)	2136	0.09380	0.00120				2			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0553	0.09830	0.00540				2			0
031.99	Phosphorus, Miscellaneous (%)	0242	0.08000	0.00000				2			0
031.99	Phosphorus, Miscellaneous (%)	0676	0.08000	0.00000				2			0
032.02	Potassium, Flame Emission (%)	0504	0.40000	0.00000				1			0
032.31	Potassium, AAS, Dry ash (%)	0650	0.26500	0.00400				1			0
032.41	Potassium, ICP, Dry ash (%)	0051	0.22605	0.01350	0.29553	0.06156	0.01672	10	-1.13	12%	0
032.41	Potassium, ICP, Dry ash (%)	0098	0.25500	0.01000	0.29553	0.06156	0.01672	10	-0.66	7%	0
032.41	Potassium, ICP, Dry ash (%)	0164	0.25750	0.00700	0.29553	0.06156	0.01672	10	-0.62	6%	0
032.41	Potassium, ICP, Dry ash (%)	0619	0.26650	0.01500	0.29553	0.06156	0.01672	10	-0.47	5%	0
032.41	Potassium, ICP, Dry ash (%)	0511	0.28000	0.04000	0.29553	0.06156	0.01672	10	-0.25	3%	0
032.41	Potassium, ICP, Dry ash (%)	0171	0.28100	0.01000	0.29553	0.06156	0.01672	10	-0.24	2%	0
032.41	Potassium, ICP, Dry ash (%)	0019	0.30500	0.03000	0.29553	0.06156	0.01672	10	0.15	2%	0
032.41	Potassium, ICP, Dry ash (%)	0074	0.30850	0.00900	0.29553	0.06156	0.01672	10	0.21	2%	0
032.41	Potassium, ICP, Dry ash (%)	0208	0.39500	0.00000	0.29553	0.06156	0.01672	10	1.62	17%	0
032.41	Potassium, ICP, Dry ash (%)	0407	0.41815	0.03270	0.29553	0.06156	0.01672	10	1.99	21%	0
032.42	Potassium, ICP, Open vessel (%)	0870	0.40400	0.00020				3			0
032.42	Potassium, ICP, Open vessel (%)	0504	0.41550	0.03300				3			0
032.42	Potassium, ICP, Open vessel (%)	2207	0.42500	0.01000				3			0
032.43	Potassium, ICP, Microwave (%)	0098	0.38500	0.01000	0.42330	0.02017	0.01746	12	-1.90	5%	0
032.43	Potassium, ICP, Microwave (%)	0042	0.39400	0.00000	0.42330	0.02017	0.01746	12	-1.45	3%	0
032.43	Potassium, ICP, Microwave (%)	0964	0.41110	0.01460	0.42330	0.02017	0.01746	12	-0.60	1%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
032.43	Potassium, ICP, Microwave (%)	2033	0.41500	0.01000	0.42330	0.02017	0.01746	12	-0.41	1%	0
032.43	Potassium, ICP, Microwave (%)	2089	0.42000	0.02000	0.42330	0.02017	0.01746	12	-0.16	0%	0
032.43	Potassium, ICP, Microwave (%)	0027	0.42350	0.00700	0.42330	0.02017	0.01746	12	0.01	0%	0
032.43	Potassium, ICP, Microwave (%)	2136	0.43000	0.00200	0.42330	0.02017	0.01746	12	0.33	1%	0
032.43	Potassium, ICP, Microwave (%)	0510	0.43000	0.06000	0.42330	0.02017	0.01746	12	0.33	1%	0
032.43	Potassium, ICP, Microwave (%)	0202	0.43150	0.02500	0.42330	0.02017	0.01746	12	0.41	1%	0
032.43	Potassium, ICP, Microwave (%)	2187	0.44000	0.01480	0.42330	0.02017	0.01746	12	0.83	2%	0
032.43	Potassium, ICP, Microwave (%)	0034	0.44145	0.02610	0.42330	0.02017	0.01746	12	0.90	2%	0
032.43	Potassium, ICP, Microwave (%)	2124	0.45000	0.02000	0.42330	0.02017	0.01746	12	1.32	3%	0
032.44	Potassium, ICP, Dry ash (%)	0873	0.18500	0.01000				3			0
032.44	Potassium, ICP, Dry ash (%)	2156	0.20500	0.01000				3			0
032.44	Potassium, ICP, Dry ash (%)	2114	0.44000	0.02000				3			0
032.53	Potassium, ICP-MS, Microwave (%)	0553	0.44500	0.02000				1			0
032.99	Potassium, Miscellaneous (%)	0001	0.37450	0.00900				2			0
032.99	Potassium, Miscellaneous (%)	0242	0.46500	0.01000				2			0
033.00	Salt as chloride, Sol Cl (%)	0504	0.20000	0.02000				2			0
033.00	Salt as chloride, Sol Cl (%)	0309	0.25685	0.01130				2			0
033.01	Salt as chloride, Poten Cl (%)	0510	0.24000	0.02000	0.25975	0.01467	0.00850	6	-1.35	4%	0
033.01	Salt as chloride, Poten Cl (%)	0650	0.25000	0.00000	0.25975	0.01467	0.00850	6	-0.66	2%	0
033.01	Salt as chloride, Poten Cl (%)	0242	0.26000	0.00000	0.25975	0.01467	0.00850	6	0.02	0%	0
033.01	Salt as chloride, Poten Cl (%)	0407	0.26350	0.00100	0.25975	0.01467	0.00850	6	0.26	1%	0
033.01	Salt as chloride, Poten Cl (%)	0164	0.27000	0.00000	0.25975	0.01467	0.00850	6	0.70	2%	0
033.01	Salt as chloride, Poten Cl (%)	0098	0.27500	0.03000	0.25975	0.01467	0.00850	6	1.04	3%	0
033.05	Salt as chloride, Ion Sel Electrode (%)	0171	0.25000	0.02000				1			0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0171	0.04070	0.06000				1			0
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0164	< 0.1					1			5
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	2207	< 5					0			5
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	0407	2.4375	0.19500				1			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2124	< 1					1			5
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	2207	0.20000	0.00000				1			0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0553	0.01260	0.00020				1			0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0098	< 0.024					1			5
035.05	Sodium, Flame Emission (%)	0504	0.23000	0.00000				1			0
035.31	Sodium, AAS, Dry ash (%)	0650	0.10400	0.03200				1			0
035.41	Sodium, ICP, Dry ash (%)	0511	0.07000	0.00000	0.14546	0.04952	0.00267	10	-1.52	26%	0
035.41	Sodium, ICP, Dry ash (%)	0873	0.12000	0.00000	0.14546	0.04952	0.00267	10	-0.51	9%	0
035.41	Sodium, ICP, Dry ash (%)	2156	0.12000	0.00000	0.14546	0.04952	0.00267	10	-0.51	9%	0
035.41	Sodium, ICP, Dry ash (%)	0171	0.13000	0.00000	0.14546	0.04952	0.00267	10	-0.31	5%	0
035.41	Sodium, ICP, Dry ash (%)	0164	0.13350	0.00700	0.14546	0.04952	0.00267	10	-0.24	4%	0
035.41	Sodium, ICP, Dry ash (%)	0051	0.13815	0.00590	0.14546	0.04952	0.00267	10	-0.15	3%	0
035.41	Sodium, ICP, Dry ash (%)	0098	0.15000	0.00000	0.14546	0.04952	0.00267	10	0.09	2%	0
035.41	Sodium, ICP, Dry ash (%)	0619	0.16200	0.00400	0.14546	0.04952	0.00267	10	0.33	6%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
035.41	Sodium, ICP, Dry ash (%)	0208	0.21000	0.00800	0.14546	0.04952	0.00267	10	1.30	22%	0
035.41	Sodium, ICP, Dry ash (%)	0407	0.22020	0.00180	0.14546	0.04952	0.00267	10	1.51	26%	0
035.41	Sodium, ICP, Dry ash (%)	0019	0.18000	0.02000	0.14546	0.04952	0.00267	10	0.70	12%	1
035.42	Sodium, ICP, Open vessel (%)	0870	0.21660	0.00060				3			0
035.42	Sodium, ICP, Open vessel (%)	2207	0.22500	0.01000				3			0
035.42	Sodium, ICP, Open vessel (%)	0504	0.23200	0.00600				3			0
035.43	Sodium, ICP, Microwave (%)	0098	0.19500	0.01000	0.22384	0.01783	0.01731	8	-1.62	6%	0
035.43	Sodium, ICP, Microwave (%)	0510	0.20500	0.01200	0.22384	0.01783	0.01731	8	-1.06	4%	0
035.43	Sodium, ICP, Microwave (%)	0964	0.22080	0.01360	0.22384	0.01783	0.01731	8	-0.17	1%	0
035.43	Sodium, ICP, Microwave (%)	0042	0.22900	0.05200	0.22384	0.01783	0.01731	8	0.29	1%	0
035.43	Sodium, ICP, Microwave (%)	2187	0.22985	0.01090	0.22384	0.01783	0.01731	8	0.34	1%	0
035.43	Sodium, ICP, Microwave (%)	2089	0.23000	0.00000	0.22384	0.01783	0.01731	8	0.35	1%	0
035.43	Sodium, ICP, Microwave (%)	0202	0.23400	0.01000	0.22384	0.01783	0.01731	8	0.57	2%	0
035.43	Sodium, ICP, Microwave (%)	2124	0.24500	0.03000	0.22384	0.01783	0.01731	8	1.19	5%	0
035.53	Sodium, ICP-MS, Microwave (%)	0553	0.23450	0.02100				1			0
035.99	Sodium, Miscellaneous (%)	0242	0.23000	0.00000				1			0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.05830	0.00060				3			0
036.42	Sulfur, ICP, Open vessel (%)	0164	0.06000	0.00000				3			0
036.42	Sulfur, ICP, Open vessel (%)	0171	0.07750	0.00100				3			0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.06885	0.00470				3			1
036.43	Sulfur, ICP, Microwave (%)	0510	0.07000	0.00000	0.07971	0.01091	0.00443	4			0
036.43	Sulfur, ICP, Microwave (%)	0098	0.07435	0.00670	0.07971	0.01091	0.00443	4			0
036.43	Sulfur, ICP, Microwave (%)	0202	0.07950	0.00100	0.07971	0.01091	0.00443	4			0
036.43	Sulfur, ICP, Microwave (%)	2089	0.09500	0.01000	0.07971	0.01091	0.00443	4			0
036.53	Sulfur, ICP-MS, Microwave (%)	0553	0.07545	0.00150				1			0
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	0504	3.7130	1.2100				1			0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0051	1.2800	0.20000	2.1565	0.84913	0.32718	6	-1.03	20%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0164	1.6500	0.10000	2.1565	0.84913	0.32718	6	-0.60	12%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0019	1.8750	0.61000	2.1565	0.84913	0.32718	6	-0.33	7%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0619	2.3350	0.19000	2.1565	0.84913	0.32718	6	0.21	4%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0171	2.3690	0.02800	2.1565	0.84913	0.32718	6	0.25	5%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0407	3.5460	0.83510	2.1565	0.84913	0.32718	6	1.64	32%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0074	3.0000	4.0000	2.1565	0.84913	0.32718	6	0.99	20%	1
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0504	4.7865	1.0650				2			0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0870	14.790	0.74000				2			0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	2207	< 5					2			5
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2124	4.4600	0.14000	7.0695	2.6041	1.2942	6	-1.00	18%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0510	5.0000	0.00000	7.0695	2.6041	1.2942	6	-0.79	15%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0964	5.7862	0.90910	7.0695	2.6041	1.2942	6	-0.49	9%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0202	8.0210	1.9160	7.0695	2.6041	1.2942	6	0.37	7%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0042	9.2850	4.4300	7.0695	2.6041	1.2942	6	0.85	16%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2089	9.8650	0.37000	7.0695	2.6041	1.2942	6	1.07	20%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT Z Score	Threshold %RSD	Flag
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037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0553	5.1250	0.01000				1		0	
037.99	Zinc, Miscellaneous (mg / kg (ppm))	0242	< 1					0		5	
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	0171	0.06450	0.00900				1		0	
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	0510	0.45000	0.10000				1		0	
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0553	0.08470	0.00300				1		0	
102.01	Niacin, Microbiological (mg / kg (ppm))	0227	13.200	0.20000				1		0	
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	0227	8.6550	0.43000				1		0	
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	0227	1.0300	0.02000				1		0	
105.01	Thiamine, Fluorometer (mg / kg (ppm))	0227	2.1700	0.04000				1		0	
106.02	Vitamin A, LC (KU / kg)	0676	0.08950	0.00300				2		0	
106.02	Vitamin A, LC (KU / kg)	0227	2.4150	0.51000				2		0	
109.02	Vitamin E, LC (IU / kg)	0227	22.450	0.10000				2		0	
109.02	Vitamin E, LC (IU / kg)	0676	26.025	0.87000				2		0	
112.01	Pyridoxine, LC (µg / g)	0227	3.3050	0.79000				1		0	
113.01	Folic Acid, Micro (mg / kg (ppm))	0227	0.34150	0.00100				1		0	
114.01	Biotin, Microbiological (mg / kg (ppm))	0227	0.06255	0.00230				1		0	
120.00	Alanine, Post-col Ninhydrin Der (%)	0870	0.23250	0.01020				3		0	
120.00	Alanine, Post-col Ninhydrin Der (%)	0227	0.25000	0.00000				3		0	
120.00	Alanine, Post-col Ninhydrin Der (%)	0504	0.25000	0.00000				3		0	
120.05	Alanine, Pre-col AQC Der (%)	0676	0.23500	0.01000				2		0	
120.05	Alanine, Pre-col AQC Der (%)	0407	0.24500	0.00000				2		0	
120.99	Alanine, Miscellaneous (%)	2115	0.23900	0.00000				1		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0227	0.18000	0.00000				3		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0504	0.18000	0.00000				3		0	
121.00	Arginine, Post-col Ninhydrin Der (%)	0870	0.18210	0.00000				3		0	
121.05	Arginine, Pre-col AQC Der (%)	0407	0.19000	0.01600				2		0	
121.05	Arginine, Pre-col AQC Der (%)	0676	0.20000	0.00000				2		0	
121.99	Arginine, Miscellaneous (%)	2115	0.18800	0.00000				1		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0504	0.97500	0.01000				3		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0870	0.97510	0.02040				3		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0227	0.99500	0.01000				3		0	
122.05	Aspartic, Pre-col AQC Der (%)	0676	0.97500	0.01000				2		0	
122.05	Aspartic, Pre-col AQC Der (%)	0407	1.0010	0.07000				2		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0227	0.07000	0.00000				2		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0504	0.09000	0.00000				2		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0870	< 0.1					2		5	
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0676	0.06000	0.00000				1		0	
124.99	Cysteine/Cystine, Miscellaneous (%)	2115	0.08500	0.00000				1		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0870	0.47080	0.00060				3		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0227	0.48000	0.00000				3		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0504	0.48000	0.00000				3		0	
125.05	Glutamic, Pre-col AQC Der (%)	0676	0.47500	0.01000				2		0	

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
125.05	Glutamic, Pre-col AQC Der (%)	0407	0.51750	0.00500				2		0	
125.99	Glutamic, Miscellaneous (%)	2115	0.50350	0.00100				1		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0870	0.19965	0.01010				3		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0227	0.21000	0.00000				3		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0504	0.21000	0.00000				3		0	
126.05	Glycine, Pre-col AQC Der (%)	0676	0.20500	0.01000				2		0	
126.05	Glycine, Pre-col AQC Der (%)	0407	0.21200	0.00400				2		0	
126.99	Glycine, Miscellaneous (%)	2115	0.20800	0.00000				1		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0227	0.09000	0.00000				2		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0504	0.09000	0.00000				2		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0870	< 0.1					2		5	
127.05	Histidine, Pre-col AQC Der (%)	0676	0.08500	0.01000				2		0	
127.05	Histidine, Pre-col AQC Der (%)	0407	0.14100	0.00400				2		0	
127.99	Histidine, Miscellaneous (%)	2115	0.09300	0.00000				1		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0870	0.18085	0.00070				3		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0227	0.21000	0.00000				3		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0504	0.23000	0.00000				3		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0676	0.20000	0.00000				2		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0407	0.21550	0.03300				2		0	
128.99	Isoleucine, Miscellaneous (%)	2115	0.21600	0.00000				1		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0870	0.28185	0.01730				3		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0227	0.31000	0.00000				3		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0504	0.33000	0.00000				3		0	
129.05	Leucine, Pre-col AQC Der (%)	0676	0.31000	0.00000				2		0	
129.05	Leucine, Pre-col AQC Der (%)	0407	0.32450	0.01300				2		0	
129.99	Leucine, Miscellaneous (%)	2115	0.31600	0.00000				1		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0504	0.14000	0.00000				3		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0227	0.15000	0.00000				3		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0870	0.16945	0.00570				3		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0676	0.13500	0.01000				2		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0407	0.16550	0.00300				2		0	
130.99	L-Lysine, Miscellaneous (%)	2115	0.14300	0.00000				1		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0227	0.09500	0.01000				2		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0504	0.10500	0.01000				2		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0870	< 0.1					2		5	
131.05	Methionine, PAO Pre-col AQC Der (%)	0676	0.10000	0.00000				1		0	
131.99	Methionine, Miscellaneous (%)	2115	0.09100	0.00000				1		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0870	0.26215	0.00590				3		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0227	0.28000	0.00000				3		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0504	0.29000	0.00000				3		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0407	0.27500	0.00400				2		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0676	0.27500	0.01000				2		0	

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132.99	Phenylalanine, Miscellaneous (%)	2115	0.27800	0.00000				1		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0870	0.14795	0.00790				3		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0504	0.19000	0.00000				3		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0227	0.19500	0.01000				3		0	
133.05	Proline, Pre-col AQC Der (%)	0676	0.18500	0.01000				2		0	
133.05	Proline, Pre-col AQC Der (%)	0407	0.20600	0.00400				2		0	
133.99	Proline, Miscellaneous (%)	2115	0.23400	0.00000				1		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0504	0.25500	0.01000				3		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0870	0.26420	0.00200				3		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0227	0.27000	0.00000				3		0	
134.05	Serine, Pre-col AQC Der (%)	0676	0.27000	0.00000				2		0	
134.05	Serine, Pre-col AQC Der (%)	0407	0.27200	0.04200				2		0	
134.99	Serine, Miscellaneous (%)	2115	0.25400	0.00000				1		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0870	0.23580	0.01000				3		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0227	0.25000	0.00000				3		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0504	0.25000	0.00000				3		0	
135.05	Threonine, Pre-col AQC Der (%)	0407	0.19900	0.00000				2		0	
135.05	Threonine, Pre-col AQC Der (%)	0676	0.24000	0.00000				2		0	
135.99	Threonine, Miscellaneous (%)	2115	0.24000	0.00000				1		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	0.07000	0.00000				1		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0870	< 0.1					1		5	
136.99	Tryptophan, Miscellaneous (%)	0504	0.08000	0.00000				1		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0504	0.12500	0.01000				2		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0227	0.15000	0.00000				2		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0870	< 0.1					2		5	
137.05	Tyrosine, Pre-col AQC Der (%)	0407	0.16700	0.00000				2		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0676	0.19000	0.00000				2		0	
137.99	Tyrosine, Miscellaneous (%)	2115	0.13300	0.00000				1		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0870	0.27095	0.00210				3		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0227	0.31000	0.00000				3		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0504	0.32000	0.00000				3		0	
138.05	Valine, Pre-col AQC Der (%)	0676	0.30000	0.00000				2		0	
138.05	Valine, Pre-col AQC Der (%)	0407	0.31800	0.04400				2		0	
138.99	Valine, Miscellaneous (%)	2115	0.30900	0.00000				1		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0504	0.16500	0.01000				1		0	
139.99	Taurine, Miscellaneous (%)	2115	0.20400	0.00000				1		0	
160.99	Fructose, Miscellaneous (%)	2114	2.3550	0.01000	2.6180	0.19752	0.07750	4		0	
160.99	Fructose, Miscellaneous (%)	0227	2.6150	0.17000	2.6180	0.19752	0.07750	4		0	
160.99	Fructose, Miscellaneous (%)	0027	2.6720	0.13000	2.6180	0.19752	0.07750	4		0	
160.99	Fructose, Miscellaneous (%)	0619	2.8300	0.00000	2.6180	0.19752	0.07750	4		0	
162.99	Glucose, Miscellaneous (%)	2114	17.990	0.06000	19.568	1.0693	0.19275	4		0	
162.99	Glucose, Miscellaneous (%)	0027	19.894	0.15100	19.568	1.0693	0.19275	4		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			
162.99	Glucose, Miscellaneous (%)	0227	20.040	0.26000	19.568	1.0693	0.19275	4		0	
162.99	Glucose, Miscellaneous (%)	0619	20.350	0.30000	19.568	1.0693	0.19275	4		0	
163.99	Lactose, Miscellaneous (%)	0619	0.00000	0.00000				0		4	
163.99	Lactose, Miscellaneous (%)	0227	< 0.15					0		5	
164.99	Maltose, Miscellaneous (%)	2114	8.0350	0.03000				2		0	
164.99	Maltose, Miscellaneous (%)	0027	9.4920	0.32600				2		0	
165.99	Sucrose, Miscellaneous (%)	2114	3.5850	0.05000				3		0	
165.99	Sucrose, Miscellaneous (%)	0619	4.2200	0.02000				3		0	
165.99	Sucrose, Miscellaneous (%)	0227	4.3600	0.02000				3		0	
165.99	Sucrose, Miscellaneous (%)	0027	4.5885	0.40500				3		1	
166.99	Raffinose, Miscellaneous (%)	0619	0.00000	0.00000				0		4	
167.99	Stachyose, Miscellaneous (%)	0619	0.00000	0.00000				0		4	
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.44645	0.00010				2		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0051	0.45650	0.00100				2		0	
400.99	Water Activity, Miscellaneous (Units)	2083	0.44600	0.00200				1		0	
516.00	Arsenic, Total, AA, Hydride (mg / kg (ppm))	0171	< 0.05					0		5	
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	2124	< 0.89					0		5	
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	0553	0.01180	0.00020				3		0	
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	0164	0.01250	0.00100				3		0	
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	0227	0.01250	0.00100				3		0	
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	0098	< 0.024					3		5	
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0		5	
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	2124	0.03000	0.00000				1		0	
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0098	0.00900	0.00000				1		0	
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0164	< 0.01					1		5	
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	0227	< 0.01					1		5	
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0		5	
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	0510	0.09000	0.02000				1		0	
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	0553	0.05735	0.00230				1		0	
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0		5	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0164	0.06450	0.00500	0.06995	0.00652	0.00570	4		0	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0227	0.06450	0.00500	0.06995	0.00652	0.00570	4		0	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0553	0.07330	0.00380	0.06995	0.00652	0.00570	4		0	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0098	0.07750	0.00900	0.06995	0.00652	0.00570	4		0	
529.99	Mercury, Miscellaneous (µg / kg (ppb))	0098	< 5					0		5	
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	0171	0.08300	0.00800				1		0	
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	0676	0.00550	0.00100				1		0	
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	2124	< 0.01					1		5	
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	0676	0.00050	0.00100				0		4	
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
724.99	Oleic Acid (9c-18:1), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	

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			
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	0676	0.22250	0.00100				1		0	
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (%)	0676	0.03600	0.00000				1		0	
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellaneous (%)	0676	0.00000	0.00000				0		4	
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Mis	0676	0.00000	0.00000				0		4	
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Mis	2124	< 0.01					0		5	
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5)	0676	0.00000	0.00000				0		4	
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6)	0676	0.00000	0.00000				0		4	
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6)	2124	< 0.01					0		5	
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscell:	0676	0.04000	0.00000				1		0	
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscell:	0676	0.22000	0.00000				1		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, 5 = A reporting limit and 4 = zeros submitted as values. Robust statistics not used if < 6 labs reporting, in the case of 4 or 5 labs reporting Means and SD's may be reported based on Raw Data with obvious blunders removed (Mandel h and k exclusions apply; Grey). Flag 3 indicates not used in statistics.