



AAFCO
Association of American Feed Control Officials



Pet Food Ingredient Scheme
Soybean Meal
Test Material Code # 202341

Labs Reporting: 38
Methods Reported 238
Issue Date : 03/31/2023

Method Proficiency Testing Report

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 (%)	0027	9.289	0.0190				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0504	9.295	0.1100				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	9.470	0.0400				3			0
001.03	Loss on Drying, Low temp. methods (%)	2124	9.160	0.1000				1			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0010	8.700	0.0000	9.135	0.2864	0.1456	12	-1.52	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0034	8.810	0.2800	9.135	0.2864	0.1456	12	-1.13	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0171	8.915	0.0100	9.135	0.2864	0.1456	12	-0.77	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0142	8.990	0.0000	9.135	0.2864	0.1456	12	-0.51	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0003	9.040	0.0400	9.135	0.2864	0.1456	12	-0.33	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0650	9.095	0.0900	9.135	0.2864	0.1456	12	-0.14	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0226	9.200	0.2800	9.135	0.2864	0.1456	12	0.23	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	9.285	0.1100	9.135	0.2864	0.1456	12	0.52	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0028	9.310	0.2800	9.135	0.2864	0.1456	12	0.61	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0876	9.315	0.1100	9.135	0.2864	0.1456	12	0.63	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2124	9.415	0.0300	9.135	0.2864	0.1456	12	0.98	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	9.539	0.2258	9.135	0.2864	0.1456	12	1.41	2%	0
001.99	Loss on Drying, Miscellaneous (%)	2155	6.895	0.2100	8.333	0.9826	0.0950	4			0
001.99	Loss on Drying, Miscellaneous (%)	0889	8.505	0.0500	8.333	0.9826	0.0950	4			0
001.99	Loss on Drying, Miscellaneous (%)	0510	8.950	0.1000	8.333	0.9826	0.0950	4			0
001.99	Loss on Drying, Miscellaneous (%)	0918	8.980	0.0200	8.333	0.9826	0.0950	4			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0870	48.30	0.3980				2			0
002.01	Protein, Crude, Auto Kjel-Foss (%)	0164	48.51	0.2500				2			0
002.04	Protein, Crude, Copper Catalyst (%)	0504	48.89	0.0700				1			0
002.05	Protein, Crude, Copper, Boric Acid (%)	0407	46.78	0.0991				1			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2302	45.90	0.0000	48.95	0.2687	0.2399	32	-11.37	3%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2023	46.57	0.3700	48.95	0.2687	0.2399	32	-8.89	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0028	47.17	0.2100	48.95	0.2687	0.2399	32	-6.66	2%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0511	48.23	0.4600	48.95	0.2687	0.2399	32	-2.70	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2184	48.58	0.2500	48.95	0.2687	0.2399	32	-1.41	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0407	48.69	0.3230	48.95	0.2687	0.2399	32	-1.00	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2312	48.75	0.0300	48.95	0.2687	0.2399	32	-0.78	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0010	48.75	0.3000	48.95	0.2687	0.2399	32	-0.76	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0504	48.87	0.3300	48.95	0.2687	0.2399	32	-0.33	0%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2124	48.87	0.2600	48.95	0.2687	0.2399	32	-0.31	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0510	48.90	0.2000	48.95	0.2687	0.2399	32	-0.20	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0027	48.92	0.0400	48.95	0.2687	0.2399	32	-0.13	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0164	48.95	0.3000	48.95	0.2687	0.2399	32	-0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0208	48.95	0.5000	48.95	0.2687	0.2399	32	-0.02	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0001	48.96	0.2900	48.95	0.2687	0.2399	32	0.00	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0876	48.96	0.0900	48.95	0.2687	0.2399	32	0.00	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0870	48.98	0.1000	48.95	0.2687	0.2399	32	0.10	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0171	48.99	0.0700	48.95	0.2687	0.2399	32	0.11	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0529	48.99	0.1700	48.95	0.2687	0.2399	32	0.11	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2089	49.04	0.0800	48.95	0.2687	0.2399	32	0.32	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0034	49.09	0.1200	48.95	0.2687	0.2399	32	0.50	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0142	49.09	0.0800	48.95	0.2687	0.2399	32	0.50	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0650	49.10	0.0100	48.95	0.2687	0.2399	32	0.52	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0047	49.10	0.8000	48.95	0.2687	0.2399	32	0.54	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0098	49.10	0.0000	48.95	0.2687	0.2399	32	0.54	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0425	49.16	0.1900	48.95	0.2687	0.2399	32	0.75	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	1019	49.18	0.1500	48.95	0.2687	0.2399	32	0.82	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0508	49.18	0.0570	48.95	0.2687	0.2399	32	0.84	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0309	49.20	0.0560	48.95	0.2687	0.2399	32	0.91	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0003	49.33	1.130	48.95	0.2687	0.2399	32	1.38	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0918	49.49	0.0200	48.95	0.2687	0.2399	32	1.99	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0226	49.63	0.2100	48.95	0.2687	0.2399	32	2.50	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2155	49.55	1.830	48.95	0.2687	0.2399	32	2.20	1%	1
002.08	Protein, Crude, Cu/Ti (%)	0098	48.82	0.1600				1			0
002.99	Protein, Crude, Miscellaneous (%)	0889	47.26	0.7000				1			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	0309	1.143	0.0270				1			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	0504	0.6350	0.2700				1			0
003.06	Fat, Crude, Pet Ether (%)	0918	0.7600	0.3000				3			0
003.06	Fat, Crude, Pet Ether (%)	0164	0.8750	0.0100				3			0
003.06	Fat, Crude, Pet Ether (%)	0425	1.250	0.0600				3			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	0.7900	0.0200				1			0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	0.7150	0.0300	0.9801	0.2170	0.0840	4			0
003.10	Fat, Crude, Randall, Pet Ether (%)	2155	0.8940	0.0520	0.9801	0.2170	0.0840	4			0
003.10	Fat, Crude, Randall, Pet Ether (%)	0889	1.125	0.2500	0.9801	0.2170	0.0840	4			0
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	1.186	0.0040	0.9801	0.2170	0.0840	4			0
003.10	Fat, Crude, Randall, Pet Ether (%)	2184	8.005	0.1700	0.9801	0.2170	0.0840	4			2
003.12	Fat, Crude, Hexane Ext (%)	0171	1.075	0.0100				1			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	0.9300	0.0000				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0870	1.346	0.0303				3			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	2089	1.425	0.3300				3			0
003.14	Fat, Crude, Ankom (%)	0003	0.8300	0.0400	1.034	0.0941	0.0657	11	-2.17	10%	0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
003.14	Fat, Crude, Ankom (%)	2023	0.9550	0.0100	1.034	0.0941	0.0657	11	-0.84	4%	0
003.14	Fat, Crude, Ankom (%)	0510	0.9650	0.0700	1.034	0.0941	0.0657	11	-0.74	3%	0
003.14	Fat, Crude, Ankom (%)	0034	0.9750	0.0300	1.034	0.0941	0.0657	11	-0.63	3%	0
003.14	Fat, Crude, Ankom (%)	0171	1.035	0.0300	1.034	0.0941	0.0657	11	0.01	0%	0
003.14	Fat, Crude, Ankom (%)	0876	1.050	0.2400	1.034	0.0941	0.0657	11	0.17	1%	0
003.14	Fat, Crude, Ankom (%)	0226	1.055	0.0100	1.034	0.0941	0.0657	11	0.22	1%	0
003.14	Fat, Crude, Ankom (%)	0529	1.055	0.1100	1.034	0.0941	0.0657	11	0.22	1%	0
003.14	Fat, Crude, Ankom (%)	0511	1.080	0.0800	1.034	0.0941	0.0657	11	0.48	2%	0
003.14	Fat, Crude, Ankom (%)	0407	1.140	0.0630	1.034	0.0941	0.0657	11	1.12	5%	0
003.14	Fat, Crude, Ankom (%)	2302	1.240	0.0400	1.034	0.0941	0.0657	11	2.18	10%	0
003.99	Fat, Crude, Miscellaneous (%)	1019	0.7250	0.0100				1			0
004.00	Fiber, Crude, Asbestos Free (%)	0309	3.461	0.0220	3.640	0.1488	0.1446	8	-1.20	2%	0
004.00	Fiber, Crude, Asbestos Free (%)	2312	3.500	0.0000	3.640	0.1488	0.1446	8	-0.94	2%	0
004.00	Fiber, Crude, Asbestos Free (%)	0164	3.550	0.3000	3.640	0.1488	0.1446	8	-0.60	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0425	3.650	0.5000	3.640	0.1488	0.1446	8	0.07	0%	0
004.00	Fiber, Crude, Asbestos Free (%)	2023	3.680	0.0600	3.640	0.1488	0.1446	8	0.27	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0208	3.680	0.0800	3.640	0.1488	0.1446	8	0.27	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0171	3.735	0.0300	3.640	0.1488	0.1446	8	0.64	1%	0
004.00	Fiber, Crude, Asbestos Free (%)	0504	3.860	0.0200	3.640	0.1488	0.1446	8	1.48	3%	0
004.03	Fiber, Crude, Fritted Glass (%)	2089	3.505	0.4100				1			0
004.06	Fiber, Crude, Fibertec (%)	0918	3.895	0.1300				1			0
004.07	Fiber, Crude, ANKOM (%)	0407	2.734	0.3073	3.647	0.4294	0.1868	12	-2.13	13%	0
004.07	Fiber, Crude, ANKOM (%)	0510	2.850	0.1000	3.647	0.4294	0.1868	12	-1.86	11%	0
004.07	Fiber, Crude, ANKOM (%)	0028	3.250	0.3000	3.647	0.4294	0.1868	12	-0.92	5%	0
004.07	Fiber, Crude, ANKOM (%)	0511	3.600	0.4000	3.647	0.4294	0.1868	12	-0.11	1%	0
004.07	Fiber, Crude, ANKOM (%)	0876	3.650	0.1000	3.647	0.4294	0.1868	12	0.01	0%	0
004.07	Fiber, Crude, ANKOM (%)	2302	3.735	0.0500	3.647	0.4294	0.1868	12	0.21	1%	0
004.07	Fiber, Crude, ANKOM (%)	0529	3.765	0.2700	3.647	0.4294	0.1868	12	0.28	2%	0
004.07	Fiber, Crude, ANKOM (%)	0226	3.775	0.0700	3.647	0.4294	0.1868	12	0.30	2%	0
004.07	Fiber, Crude, ANKOM (%)	2124	3.835	0.0500	3.647	0.4294	0.1868	12	0.44	3%	0
004.07	Fiber, Crude, ANKOM (%)	0003	3.910	0.3400	3.647	0.4294	0.1868	12	0.61	4%	0
004.07	Fiber, Crude, ANKOM (%)	0870	4.090	0.0038	3.647	0.4294	0.1868	12	1.03	6%	0
004.07	Fiber, Crude, ANKOM (%)	0034	4.145	0.2500	3.647	0.4294	0.1868	12	1.16	7%	0
005.00	Ash, 2h @ 600°C (%)	0510	6.050	0.0600	6.377	0.2487	0.1028	23	-1.31	3%	0
005.00	Ash, 2h @ 600°C (%)	0407	6.069	0.3340	6.377	0.2487	0.1028	23	-1.24	2%	0
005.00	Ash, 2h @ 600°C (%)	0208	6.080	0.0800	6.377	0.2487	0.1028	23	-1.19	2%	0
005.00	Ash, 2h @ 600°C (%)	0142	6.120	0.0200	6.377	0.2487	0.1028	23	-1.03	2%	0
005.00	Ash, 2h @ 600°C (%)	0870	6.132	0.0945	6.377	0.2487	0.1028	23	-0.98	2%	0
005.00	Ash, 2h @ 600°C (%)	0650	6.215	0.1700	6.377	0.2487	0.1028	23	-0.65	1%	0
005.00	Ash, 2h @ 600°C (%)	0425	6.235	0.0100	6.377	0.2487	0.1028	23	-0.57	1%	0
005.00	Ash, 2h @ 600°C (%)	0027	6.284	0.0080	6.377	0.2487	0.1028	23	-0.37	1%	0
005.00	Ash, 2h @ 600°C (%)	0876	6.295	0.0300	6.377	0.2487	0.1028	23	-0.33	1%	0

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005.00	Ash, 2h @ 600°C (%)	0098	6.300	0.0000	6.377	0.2487	0.1028	23	-0.31	1%	0
005.00	Ash, 2h @ 600°C (%)	0918	6.305	0.0500	6.377	0.2487	0.1028	23	-0.29	1%	0
005.00	Ash, 2h @ 600°C (%)	2124	6.375	0.1700	6.377	0.2487	0.1028	23	-0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0164	6.380	0.2200	6.377	0.2487	0.1028	23	0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0504	6.425	0.1500	6.377	0.2487	0.1028	23	0.19	0%	0
005.00	Ash, 2h @ 600°C (%)	2312	6.425	0.2300	6.377	0.2487	0.1028	23	0.19	0%	0
005.00	Ash, 2h @ 600°C (%)	0001	6.442	0.1830	6.377	0.2487	0.1028	23	0.26	1%	0
005.00	Ash, 2h @ 600°C (%)	0171	6.495	0.0100	6.377	0.2487	0.1028	23	0.48	1%	0
005.00	Ash, 2h @ 600°C (%)	2302	6.560	0.1400	6.377	0.2487	0.1028	23	0.74	1%	0
005.00	Ash, 2h @ 600°C (%)	2089	6.645	0.0500	6.377	0.2487	0.1028	23	1.08	2%	0
005.00	Ash, 2h @ 600°C (%)	0226	6.650	0.0400	6.377	0.2487	0.1028	23	1.10	2%	0
005.00	Ash, 2h @ 600°C (%)	0047	6.700	0.0000	6.377	0.2487	0.1028	23	1.30	3%	0
005.00	Ash, 2h @ 600°C (%)	0309	6.729	0.0060	6.377	0.2487	0.1028	23	1.42	3%	0
005.00	Ash, 2h @ 600°C (%)	0529	6.900	0.0000	6.377	0.2487	0.1028	23	2.10	4%	0
005.00	Ash, 2h @ 600°C (%)	1019	6.215	1.050	6.377	0.2487	0.1028	23	-0.65	1%	1
005.00	Ash, 2h @ 600°C (%)	2184	9.700	0.0800	6.377	0.2487	0.1028	23	13.36	26%	2
005.03	Ash, Microwave furnace (%)	0511	6.050	0.1000				1			0
005.05	Ash, 3h @ 550°C (%)	0889	6.330	0.1200				3			0
005.05	Ash, 3h @ 550°C (%)	0034	6.428	0.1530				3			0
005.05	Ash, 3h @ 550°C (%)	0003	7.230	0.0800				3			0
005.99	Ash, Miscellaneous (%)	2023	6.285	0.0900				1			0
006.00	Total Sugars, As sucrose (%)	0407	11.48	0.1200				1			0
006.99	Total Sugars, Miscellaneous (%)	0226	9.780	0.3200				1			0
007.00	Urease, Act pH Chng (%)	2302	0.0150	0.0100				1			0
008.02	Fiber, Acid Detergent, Crucible (%)	0504	4.520	0.7600				3			0
008.02	Fiber, Acid Detergent, Crucible (%)	0309	4.790	0.1210				3			0
008.02	Fiber, Acid Detergent, Crucible (%)	0226	4.800	0.0600				3			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2302	4.300	0.1200	5.054	0.7737	0.1633	6	-0.97	7%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0511	4.600	0.0000	5.054	0.7737	0.1633	6	-0.59	4%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0001	4.722	0.3570	5.054	0.7737	0.1633	6	-0.43	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0889	5.140	0.0800	5.054	0.7737	0.1633	6	0.11	1%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	5.350	0.2351	5.054	0.7737	0.1633	6	0.38	3%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0407	6.256	0.0242	5.054	0.7737	0.1633	6	1.55	12%	0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0918	9.555	4.890	5.054	0.7737	0.1633	6	5.82	45%	1
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0226	7.605	0.0100				2			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0309	7.757	0.0020				2			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0889	7.155	0.0700	7.994	0.7176	0.7093	7	-1.17	5%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0407	7.439	0.6616	7.994	0.7176	0.7093	7	-0.77	3%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2302	7.770	0.1800	7.994	0.7176	0.7093	7	-0.31	1%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0164	8.000	0.8000	7.994	0.7176	0.7093	7	0.01	0%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	8.124	0.2935	7.994	0.7176	0.7093	7	0.18	1%	0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0504	8.400	0.3400	7.994	0.7176	0.7093	7	0.57	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			
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0918	10.71	2.620	7.994	0.7176	0.7093	7	3.78	17%	0
010.03	Moisture, Karl-Fischer (%)	0164	9.255	0.0500				1			0
010.99	Moisture, Miscellaneous (%)	2089	8.955	0.0100				1			0
011.01	Loss on Drying, HT, 135°C 2hr (%)	1019	8.770	0.0800	9.740	0.5218	0.0748	14	-1.86	5%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0511	9.170	0.1000	9.740	0.5218	0.0748	14	-1.09	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0047	9.300	0.0000	9.740	0.5218	0.0748	14	-0.84	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0171	9.405	0.1100	9.740	0.5218	0.0748	14	-0.64	2%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0208	9.565	0.1700	9.740	0.5218	0.0748	14	-0.33	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0164	9.660	0.0200	9.740	0.5218	0.0748	14	-0.15	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0226	9.740	0.1600	9.740	0.5218	0.0748	14	0.00	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0098	9.760	0.0000	9.740	0.5218	0.0748	14	0.04	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0425	9.795	0.0100	9.740	0.5218	0.0748	14	0.11	0%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0870	9.866	0.0859	9.740	0.5218	0.0748	14	0.24	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2312	9.875	0.0300	9.740	0.5218	0.0748	14	0.26	1%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0510	10.25	0.1000	9.740	0.5218	0.0748	14	0.98	3%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	2302	10.49	0.0200	9.740	0.5218	0.0748	14	1.44	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0407	10.56	0.0122	9.740	0.5218	0.0748	14	1.57	4%	0
011.01	Loss on Drying, HT, 135°C 2hr (%)	0309	9.585	0.5700	9.740	0.5218	0.0748	14	-0.30	1%	1
011.01	Loss on Drying, HT, 135°C 2hr (%)	2184	0.9450	0.0900	9.740	0.5218	0.0748	14	-16.85	45%	2
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	2023	9.940	0.0200				2			0
011.02	Loss on Drying, HT, 130°C for 2 hours (%)	0529	10.06	0.4000				2			0
012.00	Starch, Polarimetric (Ewers) (%)	2023	4.450	0.1000				1			0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0407	0.6575	0.0850				3			0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0870	1.005	0.0188				3			0
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0918	3.540	0.3800				3			0
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	0407	0.8666	0.0040				1			0
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (0226	0.4200	0.0400				2			0
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (0510	1.300	0.2000				2			0
012.20	Starch, Dietary, Enzymatic-Colorimetric (%)	0027	0.6700	0.1200				1			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0650	2.595	0.3100				2			0
013.00	Fat, Pretreat, Acid hydrolysis (%)	0309	4.050	0.1000				2			0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0208	2.170	0.8800	2.952	0.5673	0.2564	8	-1.38	13%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0098	2.490	0.1200	2.952	0.5673	0.2564	8	-0.82	8%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0407	2.590	0.2800	2.952	0.5673	0.2564	8	-0.64	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0001	2.867	0.3340	2.952	0.5673	0.2564	8	-0.15	1%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0870	3.252	0.0606	2.952	0.5673	0.2564	8	0.53	5%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0171	3.310	0.1000	2.952	0.5673	0.2564	8	0.63	6%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	2312	3.340	0.0200	2.952	0.5673	0.2564	8	0.68	7%	0
013.02	Fat, Pretreat, Mojonnier, Bak Ext, Acid hydrolysis (%)	0010	3.600	0.0000	2.952	0.5673	0.2564	8	1.14	11%	0
013.10	Fat, Pretreat, Soxtec-Acid Hydrolysis (%)	2124	1.200	0.1000				1			0
013.13	Fat, Pretreat, Ankom- Acid Hydrolysis (%)	0407	3.195	1.822				1			0
014.01	Fiber, Total Dietary, Enz-Grav (%)	0227	16.35	0.1000				1			0

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015.41	Aluminum, ICP, Dry ash (ppm)	0407	24.57	0.6969				1			0
015.43	Aluminum, ICP, Microwave (ppm)	0510	2.500	1.000				2			0
015.43	Aluminum, ICP, Microwave (ppm)	0407	26.52	1.388				2			0
015.53	Aluminum, ICP-MS, Microwave (ppm)	0407	26.13	3.889				1			0
017.41	Boron, ICP, Dry ash (ppm)	0226	35.08	0.0800				2			0
017.41	Boron, ICP, Dry ash (ppm)	0407	39.85	1.081				2			0
017.43	Boron, ICP, Microwave (ppm)	0510	36.50	1.000				2			0
017.43	Boron, ICP, Microwave (ppm)	0407	40.40	1.257				2			0
017.53	Boron, ICP-MS, Microwave (ppm)	0407	30.85	2.399				1			0
019.31	Calcium, AAS, Dry ash (%)	0142	0.3490	0.0094				3			0
019.31	Calcium, AAS, Dry ash (%)	0001	0.3527	0.0081				3			0
019.31	Calcium, AAS, Dry ash (%)	0529	0.3700	0.0000				3			0
019.41	Calcium, ICP, Dry ash (%)	0164	0.3720	0.0040	0.3915	0.0229	0.0124	5			0
019.41	Calcium, ICP, Dry ash (%)	0098	0.3750	0.0100	0.3915	0.0229	0.0124	5			0
019.41	Calcium, ICP, Dry ash (%)	0171	0.3800	0.0000	0.3915	0.0229	0.0124	5			0
019.41	Calcium, ICP, Dry ash (%)	0407	0.4056	0.0255	0.3915	0.0229	0.0124	5			0
019.41	Calcium, ICP, Dry ash (%)	0226	0.4250	0.0100	0.3915	0.0229	0.0124	5			0
019.42	Calcium, ICP, Open vessel (%)	0870	0.3693	0.0213				3			0
019.42	Calcium, ICP, Open vessel (%)	0160	0.3900	0.0000				3			0
019.42	Calcium, ICP, Open vessel (%)	0504	0.4195	0.0770				3			0
019.43	Calcium, ICP, Microwave (%)	2089	0.3550	0.0100	0.3862	0.0236	0.0108	12	-1.32	4%	0
019.43	Calcium, ICP, Microwave (%)	0870	0.3621	0.0069	0.3862	0.0236	0.0108	12	-1.02	3%	0
019.43	Calcium, ICP, Microwave (%)	0511	0.3700	0.0000	0.3862	0.0236	0.0108	12	-0.69	2%	0
019.43	Calcium, ICP, Microwave (%)	0010	0.3750	0.0100	0.3862	0.0236	0.0108	12	-0.47	1%	0
019.43	Calcium, ICP, Microwave (%)	0051	0.3773	0.0101	0.3862	0.0236	0.0108	12	-0.38	1%	0
019.43	Calcium, ICP, Microwave (%)	0510	0.3800	0.0000	0.3862	0.0236	0.0108	12	-0.26	1%	0
019.43	Calcium, ICP, Microwave (%)	0876	0.3874	0.0148	0.3862	0.0236	0.0108	12	0.05	0%	0
019.43	Calcium, ICP, Microwave (%)	2124	0.3900	0.0000	0.3862	0.0236	0.0108	12	0.16	0%	0
019.43	Calcium, ICP, Microwave (%)	0027	0.3925	0.0030	0.3862	0.0236	0.0108	12	0.27	1%	0
019.43	Calcium, ICP, Microwave (%)	0098	0.4050	0.0100	0.3862	0.0236	0.0108	12	0.79	2%	0
019.43	Calcium, ICP, Microwave (%)	0407	0.4187	0.0217	0.3862	0.0236	0.0108	12	1.37	4%	0
019.43	Calcium, ICP, Microwave (%)	0226	0.4700	0.0000	0.3862	0.0236	0.0108	12	3.54	11%	0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	0.5150	0.0900				1			0
019.53	Calcium, ICP-MS, Microwave (%)	0407	0.3543	0.0318				2			0
019.53	Calcium, ICP-MS, Microwave (%)	2428	0.3900	0.0000				2			0
021.31	Cobalt, AAS, Dry ash (ppm)	0164	< 0.5					0			5
021.41	Cobalt, ICP, Dry ash (ppm)	0171	0.2800	0.0200				2			0
021.41	Cobalt, ICP, Dry ash (ppm)	0407	0.4316	0.0134				2			0
021.42	Cobalt, ICP, Open vessel (ppm)	0160	< 1					0			5
021.43	Cobalt, ICP, Microwave (ppm)	0510	0.2750	0.0300				2			0
021.43	Cobalt, ICP, Microwave (ppm)	0407	0.4396	0.0342				2			0
021.53	Cobalt, ICP-MS, Microwave (ppm)	0407	0.2692	0.0148				1			0

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
021.53	Cobalt, ICP-MS, Microwave (ppm)	2428	< 0.5					1			5
022.31	Copper, AAS, Dry ash (ppm)	0529	16.57	0.3700				1			0
022.33	Copper, AAS, Microwave (ppm)	0010	15.10	0.2500				1			0
022.41	Copper, ICP, Dry ash (ppm)	0407	13.49	0.2932	14.97	1.309	0.1477	4			0
022.41	Copper, ICP, Dry ash (ppm)	0171	14.72	0.1300	14.97	1.309	0.1477	4			0
022.41	Copper, ICP, Dry ash (ppm)	0164	15.00	0.0000	14.97	1.309	0.1477	4			0
022.41	Copper, ICP, Dry ash (ppm)	0226	16.67	0.0200	14.97	1.309	0.1477	4			0
022.41	Copper, ICP, Dry ash (ppm)	0098	15.31	0.8700	14.97	1.309	0.1477	4			1
022.42	Copper, ICP, Open vessel (ppm)	0870	13.73	0.4700				3			0
022.42	Copper, ICP, Open vessel (ppm)	0160	14.00	0.0000				3			0
022.42	Copper, ICP, Open vessel (ppm)	0504	15.60	0.6000				3			0
022.43	Copper, ICP, Microwave (ppm)	0511	13.00	0.0000	14.42	0.9400	0.4121	11	-1.51	5%	0
022.43	Copper, ICP, Microwave (ppm)	2124	13.50	0.4000	14.42	0.9400	0.4121	11	-0.98	3%	0
022.43	Copper, ICP, Microwave (ppm)	0870	13.65	0.3200	14.42	0.9400	0.4121	11	-0.82	3%	0
022.43	Copper, ICP, Microwave (ppm)	0510	14.00	0.0000	14.42	0.9400	0.4121	11	-0.45	1%	0
022.43	Copper, ICP, Microwave (ppm)	0098	14.34	0.1200	14.42	0.9400	0.4121	11	-0.09	0%	0
022.43	Copper, ICP, Microwave (ppm)	2428	14.50	1.000	14.42	0.9400	0.4121	11	0.08	0%	0
022.43	Copper, ICP, Microwave (ppm)	0407	14.71	0.4255	14.42	0.9400	0.4121	11	0.30	1%	0
022.43	Copper, ICP, Microwave (ppm)	0226	14.90	0.3600	14.42	0.9400	0.4121	11	0.51	2%	0
022.43	Copper, ICP, Microwave (ppm)	0051	14.91	0.1100	14.42	0.9400	0.4121	11	0.51	2%	0
022.43	Copper, ICP, Microwave (ppm)	0027	15.38	0.3730	14.42	0.9400	0.4121	11	1.02	3%	0
022.43	Copper, ICP, Microwave (ppm)	2089	15.76	0.6000	14.42	0.9400	0.4121	11	1.42	5%	0
022.52	Copper, ICP-MS, Open vessel (ppm)	0047	13.61	0.0400				1			0
022.53	Copper, ICP-MS, Microwave (ppm)	0407	13.71	0.9416				1			0
025.31	Iron, AAS, Dry ash (ppm)	0001	109.0	19.47				2			0
025.31	Iron, AAS, Dry ash (ppm)	0529	114.3	1.870				2			0
025.41	Iron, ICP, Dry ash (ppm)	0164	100.5	1.000	105.2	3.611	1.293	4			0
025.41	Iron, ICP, Dry ash (ppm)	0098	104.4	1.600	105.2	3.611	1.293	4			0
025.41	Iron, ICP, Dry ash (ppm)	0171	107.1	0.6000	105.2	3.611	1.293	4			0
025.41	Iron, ICP, Dry ash (ppm)	0226	108.8	1.970	105.2	3.611	1.293	4			0
025.41	Iron, ICP, Dry ash (ppm)	0407	109.4	14.86	105.2	3.611	1.293	4			1
025.42	Iron, ICP, Open vessel (ppm)	0870	93.29	4.540				3			0
025.42	Iron, ICP, Open vessel (ppm)	0160	99.30	0.2000				3			0
025.42	Iron, ICP, Open vessel (ppm)	0504	104.5	5.000				3			0
025.43	Iron, ICP, Microwave (ppm)	0511	92.50	3.000	107.5	10.76	3.335	10	-1.39	7%	0
025.43	Iron, ICP, Microwave (ppm)	0051	97.86	2.150	107.5	10.76	3.335	10	-0.89	4%	0
025.43	Iron, ICP, Microwave (ppm)	0510	98.50	3.000	107.5	10.76	3.335	10	-0.83	4%	0
025.43	Iron, ICP, Microwave (ppm)	0870	104.5	6.200	107.5	10.76	3.335	10	-0.27	1%	0
025.43	Iron, ICP, Microwave (ppm)	2124	106.6	1.990	107.5	10.76	3.335	10	-0.08	0%	0
025.43	Iron, ICP, Microwave (ppm)	0876	109.8	6.190	107.5	10.76	3.335	10	0.22	1%	0
025.43	Iron, ICP, Microwave (ppm)	0407	110.3	1.494	107.5	10.76	3.335	10	0.26	1%	0
025.43	Iron, ICP, Microwave (ppm)	0098	114.5	4.500	107.5	10.76	3.335	10	0.65	3%	0

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025.43	Iron, ICP, Microwave (ppm)	0226	116.5	3.570	107.5	10.76	3.335	10	0.84	4%	0
025.43	Iron, ICP, Microwave (ppm)	2089	130.1	1.260	107.5	10.76	3.335	10	2.10	11%	0
025.52	Iron, ICP-MS, Open vessel (ppm)	0047	95.68	1.430				1			0
025.53	Iron, ICP-MS, Microwave (ppm)	0407	95.23	6.002				2			0
025.53	Iron, ICP-MS, Microwave (ppm)	2428	110.0	0.0000				2			0
027.31	Magnesium, AAS, Dry ash (%)	0529	0.2845	0.0090				3			0
027.31	Magnesium, AAS, Dry ash (%)	0142	0.2927	0.0043				3			0
027.31	Magnesium, AAS, Dry ash (%)	0001	0.2935	0.0094				3			0
027.41	Magnesium, ICP, Dry ash (%)	0407	0.2923	0.0116	0.3086	0.0127	0.0122	5			0
027.41	Magnesium, ICP, Dry ash (%)	0164	0.3005	0.0170	0.3086	0.0127	0.0122	5			0
027.41	Magnesium, ICP, Dry ash (%)	0098	0.3100	0.0000	0.3086	0.0127	0.0122	5			0
027.41	Magnesium, ICP, Dry ash (%)	0171	0.3150	0.0100	0.3086	0.0127	0.0122	5			0
027.41	Magnesium, ICP, Dry ash (%)	0226	0.3250	0.0100	0.3086	0.0127	0.0122	5			0
027.42	Magnesium, ICP, Open vessel (%)	0160	0.2950	0.0100				3			0
027.42	Magnesium, ICP, Open vessel (%)	0870	0.2979	0.0110				3			0
027.42	Magnesium, ICP, Open vessel (%)	0504	0.3350	0.0520				3			0
027.43	Magnesium, ICP, Microwave (%)	0510	0.2900	0.0000	0.3033	0.0100	0.0094	10	-1.34	2%	0
027.43	Magnesium, ICP, Microwave (%)	0511	0.2950	0.0100	0.3033	0.0100	0.0094	10	-0.83	1%	0
027.43	Magnesium, ICP, Microwave (%)	0407	0.2956	0.0046	0.3033	0.0100	0.0094	10	-0.77	1%	0
027.43	Magnesium, ICP, Microwave (%)	0870	0.2962	0.0076	0.3033	0.0100	0.0094	10	-0.71	1%	0
027.43	Magnesium, ICP, Microwave (%)	0226	0.3050	0.0100	0.3033	0.0100	0.0094	10	0.17	0%	0
027.43	Magnesium, ICP, Microwave (%)	2124	0.3050	0.0100	0.3033	0.0100	0.0094	10	0.17	0%	0
027.43	Magnesium, ICP, Microwave (%)	0051	0.3088	0.0026	0.3033	0.0100	0.0094	10	0.55	1%	0
027.43	Magnesium, ICP, Microwave (%)	0876	0.3092	0.0206	0.3033	0.0100	0.0094	10	0.59	1%	0
027.43	Magnesium, ICP, Microwave (%)	2089	0.3100	0.0000	0.3033	0.0100	0.0094	10	0.67	1%	0
027.43	Magnesium, ICP, Microwave (%)	0098	0.3250	0.0100	0.3033	0.0100	0.0094	10	2.18	4%	0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	0.2985	0.0090				1			0
027.53	Magnesium, ICP-MS, Microwave (%)	0407	0.2802	0.0275				2			0
027.53	Magnesium, ICP-MS, Microwave (%)	2428	0.3200	0.0000				2			0
028.31	Manganese, AAS, Dry ash (ppm)	0529	53.44	3.880				2			0
028.31	Manganese, AAS, Dry ash (ppm)	0001	53.85	0.8000				2			0
028.41	Manganese, ICP, Dry ash (ppm)	0164	50.00	0.0000	54.39	3.549	0.6525	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0171	52.75	0.1500	54.39	3.549	0.6525	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0098	53.74	0.5600	54.39	3.549	0.6525	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0407	56.03	1.420	54.39	3.549	0.6525	5			0
028.41	Manganese, ICP, Dry ash (ppm)	0226	59.42	0.4800	54.39	3.549	0.6525	5			0
028.42	Manganese, ICP, Open vessel (ppm)	0870	49.96	1.030				3			0
028.42	Manganese, ICP, Open vessel (ppm)	0504	52.35	1.300				3			0
028.42	Manganese, ICP, Open vessel (ppm)	0160	53.25	0.7000				3			0
028.43	Manganese, ICP, Microwave (ppm)	0510	48.50	1.000	53.30	3.849	1.410	11	-1.25	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0511	48.50	1.000	53.30	3.849	1.410	11	-1.25	5%	0
028.43	Manganese, ICP, Microwave (ppm)	0870	48.73	1.420	53.30	3.849	1.410	11	-1.19	4%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
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028.43	Manganese, ICP, Microwave (ppm)	0226	52.13	0.6600	53.30	3.849	1.410	11	-0.31	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0051	52.64	1.150	53.30	3.849	1.410	11	-0.17	1%	0
028.43	Manganese, ICP, Microwave (ppm)	2124	54.73	1.860	53.30	3.849	1.410	11	0.37	1%	0
028.43	Manganese, ICP, Microwave (ppm)	0098	55.62	1.000	53.30	3.849	1.410	11	0.60	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0027	55.70	1.703	53.30	3.849	1.410	11	0.62	2%	0
028.43	Manganese, ICP, Microwave (ppm)	0876	56.21	3.115	53.30	3.849	1.410	11	0.75	3%	0
028.43	Manganese, ICP, Microwave (ppm)	0407	56.41	1.072	53.30	3.849	1.410	11	0.81	3%	0
028.43	Manganese, ICP, Microwave (ppm)	2089	57.19	1.530	53.30	3.849	1.410	11	1.01	4%	0
028.52	Manganese, ICP-MS, Open vessel (ppm)	0047	49.79	0.6200				1			0
028.53	Manganese, ICP-MS, Microwave (ppm)	0407	49.54	1.031				2			0
028.53	Manganese, ICP-MS, Microwave (ppm)	2428	54.00	0.0000				2			0
031.01	Phosphorus, Photometric (%)	0142	0.6534	0.0034				2			0
031.01	Phosphorus, Photometric (%)	0529	0.6950	0.0100				2			0
031.03	Phosphorus, Autoanalyzer (%)	0001	0.7000	0.0080				1			0
031.41	Phosphorus, ICP, Dry ash (%)	0171	0.6750	0.0100	0.6968	0.0186	0.0100	5			0
031.41	Phosphorus, ICP, Dry ash (%)	0164	0.6830	0.0060	0.6968	0.0186	0.0100	5			0
031.41	Phosphorus, ICP, Dry ash (%)	0226	0.6950	0.0100	0.6968	0.0186	0.0100	5			0
031.41	Phosphorus, ICP, Dry ash (%)	0098	0.7141	0.0007	0.6968	0.0186	0.0100	5			0
031.41	Phosphorus, ICP, Dry ash (%)	0407	0.7171	0.0231	0.6968	0.0186	0.0100	5			0
031.42	Phosphorus, ICP, Open vessel (%)	0047	0.6550	0.0100				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0160	0.7050	0.0300				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0870	0.7231	0.0066				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0504	0.8300	0.3260				3			1
031.43	Phosphorus, ICP, Microwave (%)	0051	0.6293	0.0023	0.7026	0.0335	0.0172	13	-2.19	5%	0
031.43	Phosphorus, ICP, Microwave (%)	0001	0.6720	0.0180	0.7026	0.0335	0.0172	13	-0.91	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0010	0.6750	0.0100	0.7026	0.0335	0.0172	13	-0.82	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0511	0.6800	0.0000	0.7026	0.0335	0.0172	13	-0.67	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0226	0.6850	0.0100	0.7026	0.0335	0.0172	13	-0.52	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	0.6950	0.0100	0.7026	0.0335	0.0172	13	-0.23	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2124	0.7000	0.0200	0.7026	0.0335	0.0172	13	-0.08	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0027	0.7085	0.0010	0.7026	0.0335	0.0172	13	0.18	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	0.7150	0.0300	0.7026	0.0335	0.0172	13	0.37	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0876	0.7244	0.0287	0.7026	0.0335	0.0172	13	0.65	2%	0
031.43	Phosphorus, ICP, Microwave (%)	0870	0.7380	0.0239	0.7026	0.0335	0.0172	13	1.06	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	0.7416	0.0331	0.7026	0.0335	0.0172	13	1.16	3%	0
031.43	Phosphorus, ICP, Microwave (%)	0407	0.7466	0.0192	0.7026	0.0335	0.0172	13	1.31	3%	0
031.53	Phosphorus, ICP-MS, Microwave (%)	0407	0.6664	0.0673				2			0
031.53	Phosphorus, ICP-MS, Microwave (%)	2428	0.7300	0.0000				2			0
032.31	Potassium, AAS, Dry ash (%)	0529	2.205	0.0100				3			0
032.31	Potassium, AAS, Dry ash (%)	0142	2.312	0.0004				3			0
032.31	Potassium, AAS, Dry ash (%)	0208	2.405	0.0500				3			0
032.41	Potassium, ICP, Dry ash (%)	0407	2.260	0.0168	2.411	0.1568	0.0254	5			0

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032.41	Potassium, ICP, Dry ash (%)	0171	2.285	0.0100	2.411	0.1568	0.0254	5			0
032.41	Potassium, ICP, Dry ash (%)	0164	2.400	0.0400	2.411	0.1568	0.0254	5			0
032.41	Potassium, ICP, Dry ash (%)	0098	2.460	0.0200	2.411	0.1568	0.0254	5			0
032.41	Potassium, ICP, Dry ash (%)	0226	2.650	0.0400	2.411	0.1568	0.0254	5			0
032.41	Potassium, ICP, Dry ash (%)	0208	2.394	0.2300	2.411	0.1568	0.0254	5			1
032.42	Potassium, ICP, Open vessel (%)	0504	2.142	0.1200				3			0
032.42	Potassium, ICP, Open vessel (%)	0160	2.200	0.0200				3			0
032.42	Potassium, ICP, Open vessel (%)	0047	2.205	0.2500				3			0
032.42	Potassium, ICP, Open vessel (%)	0870	2.585	0.1660				3			2
032.43	Potassium, ICP, Microwave (%)	0027	2.138	0.0510	2.329	0.0708	0.0565	12	-2.70	4%	0
032.43	Potassium, ICP, Microwave (%)	0510	2.250	0.0000	2.329	0.0708	0.0565	12	-1.11	2%	0
032.43	Potassium, ICP, Microwave (%)	2089	2.260	0.0200	2.329	0.0708	0.0565	12	-0.97	1%	0
032.43	Potassium, ICP, Microwave (%)	0226	2.295	0.0300	2.329	0.0708	0.0565	12	-0.47	1%	0
032.43	Potassium, ICP, Microwave (%)	0511	2.300	0.0200	2.329	0.0708	0.0565	12	-0.40	1%	0
032.43	Potassium, ICP, Microwave (%)	2124	2.345	0.0700	2.329	0.0708	0.0565	12	0.23	0%	0
032.43	Potassium, ICP, Microwave (%)	0407	2.349	0.0366	2.329	0.0708	0.0565	12	0.29	0%	0
032.43	Potassium, ICP, Microwave (%)	0870	2.355	0.0640	2.329	0.0708	0.0565	12	0.37	1%	0
032.43	Potassium, ICP, Microwave (%)	0098	2.360	0.0400	2.329	0.0708	0.0565	12	0.44	1%	0
032.43	Potassium, ICP, Microwave (%)	0010	2.395	0.1300	2.329	0.0708	0.0565	12	0.94	1%	0
032.43	Potassium, ICP, Microwave (%)	0051	2.395	0.0374	2.329	0.0708	0.0565	12	0.94	1%	0
032.43	Potassium, ICP, Microwave (%)	0876	2.416	0.1230	2.329	0.0708	0.0565	12	1.23	2%	0
032.53	Potassium, ICP-MS, Microwave (%)	0407	2.196	0.2126				2			0
032.53	Potassium, ICP-MS, Microwave (%)	2428	2.350	0.1000				2			0
032.99	Potassium, Miscellaneous (%)	0001	2.463	0.0060				1			0
033.00	Salt as chloride, Sol Cl (%)	0309	< 0.1					0			5
033.01	Salt as chloride, Poten Cl (%)	0510	0.0165	0.0000				3			0
033.01	Salt as chloride, Poten Cl (%)	0407	0.0190	0.0000				3			0
033.01	Salt as chloride, Poten Cl (%)	0226	0.0300	0.0000				3			0
033.01	Salt as chloride, Poten Cl (%)	0098	0.0650	0.0100				3			1
033.01	Salt as chloride, Poten Cl (%)	2023	< 0.05					3			5
033.01	Salt as chloride, Poten Cl (%)	0164	< 0.1					3			5
033.99	Salt, Miscellaneous (%)	0650	0.0750	0.0900				1			0
034.04	Selenium, Total (Se), AA, Hydride (ppm)	0164	0.1920	0.0020				1			0
034.42	Selenium, Total (Se), ICP, Open vessel (ppm)	0160	< 10					0			5
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0407	0.2601	0.0412				2			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	0010	0.3850	0.0100				2			0
034.53	Selenium, Total (Se), ICP-MS, Microwave (ppm)	2428	< 0.5					2			5
035.41	Sodium, ICP, Dry ash (%)	0098	0.0040	0.0000	0.0113	0.0080	0.0016	5			0
035.41	Sodium, ICP, Dry ash (%)	0407	0.0062	0.0021	0.0113	0.0080	0.0016	5			0
035.41	Sodium, ICP, Dry ash (%)	0164	0.0065	0.0010	0.0113	0.0080	0.0016	5			0
035.41	Sodium, ICP, Dry ash (%)	0171	0.0200	0.0000	0.0113	0.0080	0.0016	5			0
035.41	Sodium, ICP, Dry ash (%)	0226	0.0200	0.0000	0.0113	0.0080	0.0016	5			0

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035.42	Sodium, ICP, Open vessel (%)	0870	0.0039	0.0002				1			0
035.42	Sodium, ICP, Open vessel (%)	0160	< 0.01					1			5
035.43	Sodium, ICP, Microwave (%)	0051	0.0025	0.0004	0.0082	0.0076	0.0005	7	-0.75	35%	0
035.43	Sodium, ICP, Microwave (%)	0870	0.0032	0.0001	0.0082	0.0076	0.0005	7	-0.66	31%	0
035.43	Sodium, ICP, Microwave (%)	0098	0.0035	0.0010	0.0082	0.0076	0.0005	7	-0.62	29%	0
035.43	Sodium, ICP, Microwave (%)	0407	0.0041	0.0002	0.0082	0.0076	0.0005	7	-0.54	25%	0
035.43	Sodium, ICP, Microwave (%)	2089	0.0100	0.0000	0.0082	0.0076	0.0005	7	0.24	11%	0
035.43	Sodium, ICP, Microwave (%)	0510	0.0145	0.0010	0.0082	0.0076	0.0005	7	0.83	38%	0
035.43	Sodium, ICP, Microwave (%)	0226	0.0200	0.0000	0.0082	0.0076	0.0005	7	1.55	72%	0
035.43	Sodium, ICP, Microwave (%)	2124	< 0.01		0.0082	0.0076	0.0005	7			5
035.53	Sodium, ICP-MS, Microwave (%)	0407	0.0020	0.0000				2			0
035.53	Sodium, ICP-MS, Microwave (%)	2428	0.0024	0.0000				2			0
036.04	Sulfur, LECO (%)	0226	0.4250	0.0100				1			0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.3745	0.0033	0.3836	0.0176	0.0094	4			0
036.42	Sulfur, ICP, Open vessel (%)	0160	0.3750	0.0100	0.3836	0.0176	0.0094	4			0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.3751	0.0149	0.3836	0.0176	0.0094	4			0
036.42	Sulfur, ICP, Open vessel (%)	0164	0.4100	0.0000	0.3836	0.0176	0.0094	4			0
036.42	Sulfur, ICP, Open vessel (%)	0171	0.2450	0.0300	0.3836	0.0176	0.0094	4			2
036.43	Sulfur, ICP, Microwave (%)	0870	0.3805	0.0154	0.4051	0.0196	0.0130	7	-1.25	3%	0
036.43	Sulfur, ICP, Microwave (%)	0407	0.3807	0.0070	0.4051	0.0196	0.0130	7	-1.24	3%	0
036.43	Sulfur, ICP, Microwave (%)	2089	0.4100	0.0000	0.4051	0.0196	0.0130	7	0.25	1%	0
036.43	Sulfur, ICP, Microwave (%)	0510	0.4100	0.0200	0.4051	0.0196	0.0130	7	0.25	1%	0
036.43	Sulfur, ICP, Microwave (%)	0876	0.4129	0.0078	0.4051	0.0196	0.0130	7	0.40	1%	0
036.43	Sulfur, ICP, Microwave (%)	2428	0.4200	0.0200	0.4051	0.0196	0.0130	7	0.76	2%	0
036.43	Sulfur, ICP, Microwave (%)	0098	0.4215	0.0077	0.4051	0.0196	0.0130	7	0.83	2%	0
037.31	Zinc, AAS, Dry ash (ppm)	0001	52.49	1.640				2			0
037.31	Zinc, AAS, Dry ash (ppm)	0529	55.69	0.6200				2			0
037.33	Zinc, AAS, Microwave (ppm)	0010	61.70	11.60				1			0
037.41	Zinc, ICP, Dry ash (ppm)	0098	58.10	0.7100				3			0
037.41	Zinc, ICP, Dry ash (ppm)	0171	58.47	0.0800				3			0
037.41	Zinc, ICP, Dry ash (ppm)	0226	58.83	0.7300				3			0
037.41	Zinc, ICP, Dry ash (ppm)	0407	57.32	3.563				3			1
037.41	Zinc, ICP, Dry ash (ppm)	0164	52.00	0.0000				3			2
037.42	Zinc, ICP, Open vessel (ppm)	0870	46.31	0.8700				3			0
037.42	Zinc, ICP, Open vessel (ppm)	0160	53.40	0.2000				3			0
037.42	Zinc, ICP, Open vessel (ppm)	0504	59.00	0.0000				3			0
037.43	Zinc, ICP, Microwave (ppm)	0511	48.50	1.000	55.27	5.534	1.747	10	-1.22	6%	0
037.43	Zinc, ICP, Microwave (ppm)	0051	50.91	1.580	55.27	5.534	1.747	10	-0.79	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0870	51.25	2.120	55.27	5.534	1.747	10	-0.73	4%	0
037.43	Zinc, ICP, Microwave (ppm)	0510	51.50	1.000	55.27	5.534	1.747	10	-0.68	3%	0
037.43	Zinc, ICP, Microwave (ppm)	2124	54.18	0.1700	55.27	5.534	1.747	10	-0.20	1%	0
037.43	Zinc, ICP, Microwave (ppm)	2089	55.56	1.040	55.27	5.534	1.747	10	0.05	0%	0

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037.43	Zinc, ICP, Microwave (ppm)	0226	57.82	0.3600	55.27	5.534	1.747	10	0.46	2%	0
037.43	Zinc, ICP, Microwave (ppm)	0407	58.14	0.2086	55.27	5.534	1.747	10	0.52	3%	0
037.43	Zinc, ICP, Microwave (ppm)	0876	61.82	6.095	55.27	5.534	1.747	10	1.18	6%	0
037.43	Zinc, ICP, Microwave (ppm)	0098	63.03	3.900	55.27	5.534	1.747	10	1.40	7%	0
037.52	Zinc, ICP-MS, Open vessel (ppm)	0047	56.53	4.450				1			0
037.53	Zinc, ICP-MS, Microwave (ppm)	0407	50.12	3.520				2			0
037.53	Zinc, ICP-MS, Microwave (ppm)	2428	56.00	0.0000				2			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0171	1.850	0.0200				3			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0407	1.886	0.1354				3			0
038.41	Molybdenum, ICP, Dry ash (ppm)	0226	2.205	0.0700				3			0
038.42	Molybdenum, ICP, Open vessel (ppm)	0160	2.050	0.1000				1			0
038.43	Molybdenum, ICP, Microwave (ppm)	0510	1.700	0.2000				2			0
038.43	Molybdenum, ICP, Microwave (ppm)	0407	2.065	0.2780				2			0
038.51	Molybdenum, ICP-MS, Dry ash (ppm)	0164	2.080	0.0200				1			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	0407	1.862	0.1284				2			0
038.53	Molybdenum, ICP-MS, Microwave (ppm)	2428	2.250	0.1000				2			0
040.53	Barium, ICP-MS, Microwave (ppm)	0407	12.93	0.5757				1			0
041.53	Vanadium, ICP-MS, Microwave (ppm)	0407	0.0773	0.0035				1			0
042.00	Chloride, Titrimetric (%)	0226	0.0300	0.0000				1			0
101.02	Choline Chloride, LC (ppm)	0227	< 0.06					0			5
102.01	Niacin, Microbiological (ppm)	0227	24.55	0.5000				1			0
103.01	Pantothenic Acid, Microbiological (ppm)	0227	11.20	0.2000				1			0
104.00	Riboflavin, Fluorometric (ppm)	0227	2.020	0.4000				1			0
105.01	Thiamine, Fluorometer (ppm)	0227	31.25	0.9000				1			0
107.00	Vitamin B12, Microbiological (ppb)	0227	< 4.4					0			5
109.02	Vitamin E, LC (IU / kg)	0227	1.745	0.0900				1			0
112.01	Pyridoxine, LC (µg / g)	0227	5.965	0.0300				1			0
113.01	Folic Acid, Micro (ppm)	0227	2.765	0.1700				1			0
114.01	Biotin, Microbiological (ppm)	0227	0.4150	0.0160				1			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0504	2.110	0.0200	2.155	0.0380	0.0127	4			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0226	2.139	0.0192	2.155	0.0380	0.0127	4			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0870	2.176	0.0014	2.155	0.0380	0.0127	4			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0227	2.195	0.0100	2.155	0.0380	0.0127	4			0
120.05	Alanine, Pre-col AQC Der (%)	0407	1.899	0.0980				1			0
120.99	Alanine, Miscellaneous (%)	2428	2.060	0.0000				1			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0226	3.420	0.0248	3.469	0.0411	0.0262	4			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0870	3.460	0.0298	3.469	0.0411	0.0262	4			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0504	3.475	0.0100	3.469	0.0411	0.0262	4			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0227	3.520	0.0400	3.469	0.0411	0.0262	4			0
121.05	Arginine, Pre-col AQC Der (%)	0407	3.346	0.1540				1			0
121.99	Arginine, Miscellaneous (%)	2428	3.010	0.0400				1			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0504	5.530	0.0600	5.620	0.0933	0.0458	4			0

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122.00	Aspartic, Post-col Ninhydrin Der (%)	0226	5.552	0.0471	5.620	0.0933	0.0458	4		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0870	5.679	0.0561	5.620	0.0933	0.0458	4		0	
122.00	Aspartic, Post-col Ninhydrin Der (%)	0227	5.720	0.0200	5.620	0.0933	0.0458	4		0	
122.05	Aspartic, Pre-col AQC Der (%)	0407	4.119	0.1890				1		0	
122.99	Aspartic, Miscellaneous (%)	2428	4.205	1.910				1		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0227	0.6700	0.0000	0.6990	0.0293	0.0090	4		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0226	0.6811	0.0146	0.6990	0.0293	0.0090	4		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0870	0.7098	0.0023	0.6990	0.0293	0.0090	4		0	
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	0504	0.7350	0.0100	0.6990	0.0293	0.0090	4		0	
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	0407	0.6856	0.0136				1		0	
124.99	Cysteine/Cystine, Miscellaneous (%)	2428	0.7200	0.0200				1		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0504	8.920	0.1000	9.175	0.2581	0.0743	4		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0227	9.115	0.0100	9.175	0.2581	0.0743	4		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0870	9.132	0.0371	9.175	0.2581	0.0743	4		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0226	9.535	0.1499	9.175	0.2581	0.0743	4		0	
125.05	Glutamic, Pre-col AQC Der (%)	0407	7.697	0.1330				1		0	
125.99	Glutamic, Miscellaneous (%)	2428	6.915	3.190				1		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0504	2.055	0.0100	2.079	0.0350	0.0110	4		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0870	2.058	0.0038	2.079	0.0350	0.0110	4		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0226	2.071	0.0102	2.079	0.0350	0.0110	4		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0227	2.130	0.0200	2.079	0.0350	0.0110	4		0	
126.05	Glycine, Pre-col AQC Der (%)	0407	2.146	0.2330				1		0	
126.99	Glycine, Miscellaneous (%)	2428	2.080	0.1200				1		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0504	1.275	0.0100	1.327	0.0680	0.0095	4		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0227	1.285	0.0100	1.327	0.0680	0.0095	4		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0870	1.324	0.0041	1.327	0.0680	0.0095	4		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0226	1.424	0.0140	1.327	0.0680	0.0095	4		0	
127.05	Histidine, Pre-col AQC Der (%)	0407	1.111	0.0200				1		0	
127.99	Histidine, Miscellaneous (%)	2428	1.205	0.0700				1		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0226	2.102	0.0315	2.272	0.1296	0.0389	4		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0870	2.266	0.0239	2.272	0.1296	0.0389	4		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0227	2.305	0.0300	2.272	0.1296	0.0389	4		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0504	2.415	0.0700	2.272	0.1296	0.0389	4		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0407	2.057	0.2520				1		0	
128.99	Isoleucine, Miscellaneous (%)	2428	1.940	0.1200				1		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0870	3.767	0.0013	3.799	0.0389	0.0268	4		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0504	3.780	0.0600	3.799	0.0389	0.0268	4		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0226	3.793	0.0160	3.799	0.0389	0.0268	4		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0227	3.855	0.0300	3.799	0.0389	0.0268	4		0	
129.05	Leucine, Pre-col AQC Der (%)	0407	3.181	0.1880				1		0	
129.99	Leucine, Miscellaneous (%)	2428	3.530	0.1200				1		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0226	2.956	0.0479	3.123	0.1275	0.0567	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			
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0504	3.100	0.0400	3.123	0.1275	0.0567	4		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0227	3.185	0.1300	3.123	0.1275	0.0567	4		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0870	3.252	0.0088	3.123	0.1275	0.0567	4		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0407	2.475	0.1330				1		0	
130.99	L-Lysine, Miscellaneous (%)	2428	2.530	1.180				1		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0226	0.6274	0.0263	0.7161	0.0691	0.0225	4		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0504	0.7050	0.0100	0.7161	0.0691	0.0225	4		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0227	0.7400	0.0000	0.7161	0.0691	0.0225	4		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0870	0.7920	0.0313	0.7161	0.0691	0.0225	4		0	
131.05	Methionine, PAO Pre-col AQC Der (%)	0407	0.7452	0.0428				1		0	
131.99	Methionine, Miscellaneous (%)	2428	0.6630	0.0020				1		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0226	2.399	0.0085	2.504	0.0705	0.0154	4		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0504	2.525	0.0300	2.504	0.0705	0.0154	4		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0227	2.540	0.0200	2.504	0.0705	0.0154	4		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0870	2.551	0.0029	2.504	0.0705	0.0154	4		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0407	2.329	0.0310				1		0	
132.99	Phenylalanine, Miscellaneous (%)	2428	2.685	0.0700				1		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0504	2.410	0.0800	2.485	0.0752	0.0526	4		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0870	2.450	0.0079	2.485	0.0752	0.0526	4		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0226	2.493	0.0125	2.485	0.0752	0.0526	4		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0227	2.585	0.1100	2.485	0.0752	0.0526	4		0	
133.05	Proline, Pre-col AQC Der (%)	0407	2.173	0.2460				1		0	
133.99	Proline, Miscellaneous (%)	2428	2.190	0.1400				1		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0504	2.060	0.0000	2.418	0.2417	0.0325	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0227	2.495	0.0500	2.418	0.2417	0.0325	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0226	2.527	0.0433	2.418	0.2417	0.0325	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0870	2.589	0.0042	2.418	0.2417	0.0325	4		0	
134.05	Serine, Pre-col AQC Der (%)	0407	1.609	0.0060				1		0	
134.99	Serine, Miscellaneous (%)	2428	2.405	0.2300				1		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0226	1.852	0.0188	1.937	0.0769	0.0160	4		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0504	1.895	0.0100	1.937	0.0769	0.0160	4		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0227	1.980	0.0200	1.937	0.0769	0.0160	4		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0870	2.020	0.0151	1.937	0.0769	0.0160	4		0	
135.05	Threonine, Pre-col AQC Der (%)	0407	1.308	0.0180				1		0	
135.99	Threonine, Miscellaneous (%)	2428	1.770	0.1600				1		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0870	0.7242	0.0322				2		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	0.7500	0.0000				2		0	
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	0226	0.6316	0.0261				1		0	
136.05	Tryptophan, Pre-col AQC Der (%)	0407	0.6770	0.0020				1		0	
136.99	Tryptophan, Miscellaneous (%)	2428	0.5850	0.0300				2		0	
136.99	Tryptophan, Miscellaneous (%)	0504	0.6650	0.0100				2		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0870	1.531	0.0158	1.655	0.0873	0.0196	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			
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0227	1.660	0.0400	1.655	0.0873	0.0196	4		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0226	1.697	0.0026	1.655	0.0873	0.0196	4		0	
137.00	Tyrosine, Post-col Ninhydrin Der (%)	0504	1.730	0.0200	1.655	0.0873	0.0196	4		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0407	1.523	0.0130				1		0	
137.99	Tyrosine, Miscellaneous (%)	2428	1.205	0.0300				1		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0226	2.234	0.0150	2.353	0.0907	0.0333	4		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0870	2.344	0.0280	2.353	0.0907	0.0333	4		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0504	2.385	0.0500	2.353	0.0907	0.0333	4		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0227	2.450	0.0400	2.353	0.0907	0.0333	4		0	
138.05	Valine, Pre-col AQC Der (%)	0407	2.109	0.2520				1		0	
138.99	Valine, Miscellaneous (%)	2428	1.985	0.2300				1		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0504	0.1400	0.0000				1		0	
139.05	Taurine, Pre-col AQC Der (%)	0407	0.0100	0.0000				1		0	
160.99	Fructose, Miscellaneous (%)	0227	0.5450	0.0500				1		0	
162.99	Glucose, Miscellaneous (%)	0227	< 0.15					0		5	
163.99	Lactose, Miscellaneous (%)	0227	< 0.15					0		5	
164.99	Maltose, Miscellaneous (%)	0227	< 0.15					0		5	
165.99	Sucrose, Miscellaneous (%)	0227	6.365	0.0700				1		0	
166.99	Raffinose, Miscellaneous (%)	0227	1.035	0.0100				1		0	
167.99	Stachyose, Miscellaneous (%)	0227	5.005	0.0500				1		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0051	0.5095	0.0110				3		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0010	0.5120	0.0076				3		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.5155	0.0001				3		0	
516.43	Arsenic, Total (As), ICP, Microwave (ppm)	2124	< 0.89					0		5	
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	2428	0.0135	0.0010				3		0	
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0227	0.0150	0.0020				3		0	
516.53	Arsenic, Total (As), ICP-MS, Microwave (ppm)	0407	0.0161	0.0025				3		0	
518.41	Cadmium, ICP, Dry ash (ppm)	0407	0.0337	0.0180				2		0	
518.41	Cadmium, ICP, Dry ash (ppm)	0171	0.0400	0.0000				2		0	
518.43	Cadmium, ICP, Microwave (ppm)	0407	0.0396	0.0136				1		0	
518.43	Cadmium, ICP, Microwave (ppm)	2124	< 0.16					1		5	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0407	0.0432	0.0033				3		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	0227	0.0465	0.0010				3		0	
518.53	Cadmium, ICP-MS, Microwave (ppm)	2428	0.0680	0.0440				3		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0407	0.3836	0.0240				2		0	
520.41	Chromium, Total (Cr), ICP, Dry ash (ppm)	0171	0.4600	0.0200				2		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0407	0.3779	0.0071				2		0	
520.43	Chromium, Total (Cr), ICP, Microwave (ppm)	0510	0.4450	0.0300				2		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	0407	0.3174	0.0206				1		0	
520.53	Chromium, Total (Cr), ICP-MS, Microwave (ppm)	2428	< 0.5					1		5	
526.41	Lead, ICP, Dry ash (ppm)	0171	0.0300	0.0200				2		0	
526.41	Lead, ICP, Dry ash (ppm)	0407	0.1635	0.0165				2		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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526.43	Lead, ICP, Microwave (ppm)	0407	0.2115	0.0314				1		0	
526.53	Lead, ICP-MS, Microwave (ppm)	2428	0.0205	0.0010				3		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0407	0.0215	0.0015				3		0	
526.53	Lead, ICP-MS, Microwave (ppm)	0227	0.0220	0.0020				3		0	
529.99	Mercury, Miscellaneous (ppb)	0407	1.057	0.0100				1		0	
529.99	Mercury, Miscellaneous (ppb)	0227	< 0.01					1		5	
529.99	Mercury, Miscellaneous (ppb)	2428	< 0.01					1		5	
539.41	Nickel, ICP, Dry ash (ppm)	0407	3.022	0.0460				1		0	
539.43	Nickel, ICP, Microwave (ppm)	0407	3.456	0.4133				1		0	
539.53	Nickel, ICP-MS, Microwave (ppm)	0407	2.919	0.1760				2		0	
539.53	Nickel, ICP-MS, Microwave (ppm)	2428	3.400	0.2000				2		0	
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	0226	0.3603	0.0006				1		0	
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	0226	0.0839	0.0037				1		0	
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	0226	0.2332	0.0009				1		0	
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	0226	1.130	0.0000				1		0	
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	0226	0.1486	0.0004				1		0	
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Mis	0226	< 0.005					0		5	
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	0226	0.0092	0.0002				1		0	
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	0226	< 0.005					0		5	
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:!	0226	< 0.005					0		5	
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	0226	0.0063	0.0001				1		0	
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6)	0226	< 0.005					0		5	
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	0226	< 0.005					0		5	
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	0226	1.970	0.0000				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.