



AAFCO
Proficiency Testing Program



Blood Meal

Pet Food Scheme

Labs Reporting: 49

Test Material Code # 201841

Method Proficiency Testing Report

Issue Date : 03/31/2018

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 (%)	0504	9.9150	0.03000				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0027	9.9185	0.07100				3			0
001.00	Loss on Drying, Vac 95°C 5 hr (%)	0309	9.9200	0.02000				3			0
001.03	Loss on Drying, Low temp. methods (%)	0619	9.7300	0.14000				3			0
001.03	Loss on Drying, Low temp. methods (%)	2058	9.7600	0.00000				3			0
001.03	Loss on Drying, Low temp. methods (%)	2124	9.8200	0.02000				3			0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0845	9.0350	0.01000	9.7651	0.22546	0.04758	12	-3.24	4%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0074	9.3300	0.06000	9.7651	0.22546	0.04758	12	-1.93	2%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2115	9.6720	0.00200	9.7651	0.22546	0.04758	12	-0.41	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0098	9.6850	0.05000	9.7651	0.22546	0.04758	12	-0.36	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0015	9.7400	0.00000	9.7651	0.22546	0.04758	12	-0.11	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0171	9.7650	0.01000	9.7651	0.22546	0.04758	12	0.00	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0873	9.7650	0.07000	9.7651	0.22546	0.04758	12	0.00	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0019	9.8050	0.27000	9.7651	0.22546	0.04758	12	0.18	0%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0065	9.9000	0.00000	9.7651	0.22546	0.04758	12	0.60	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0407	9.9353	0.01890	9.7651	0.22546	0.04758	12	0.75	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2156	10.005	0.01000	9.7651	0.22546	0.04758	12	1.06	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	0876	10.055	0.07000	9.7651	0.22546	0.04758	12	1.29	1%	0
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	2187	9.9550	0.39000	9.7651	0.22546	0.04758	12	0.84	1%	1
001.99	Loss on Drying, Miscellaneous (%)	0676	8.9300	0.26000	9.3968	0.45560	0.27357	7	-1.02	2%	0
001.99	Loss on Drying, Miscellaneous (%)	2136	8.9600	0.82000	9.3968	0.45560	0.27357	7	-0.96	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0889	9.2250	0.05000	9.3968	0.45560	0.27357	7	-0.38	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0630	9.2450	0.29000	9.3968	0.45560	0.27357	7	-0.33	1%	0
001.99	Loss on Drying, Miscellaneous (%)	0034	9.7575	0.15500	9.3968	0.45560	0.27357	7	0.79	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0510	9.8000	0.20000	9.3968	0.45560	0.27357	7	0.89	2%	0
001.99	Loss on Drying, Miscellaneous (%)	0656	9.8600	0.14000	9.3968	0.45560	0.27357	7	1.02	2%	0
002.00	Protein, Crude, Crude (%)	0845	92.540	2.0200				1			0
002.01	Protein, Crude, Auto Kjeh-Foss (%)	0164	92.395	0.23000				3			0
002.01	Protein, Crude, Auto Kjeh-Foss (%)	0619	92.500	0.40000				3			0
002.01	Protein, Crude, Auto Kjeh-Foss (%)	0870	92.946	0.30900				3			0
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	0042	93.160	0.28000				1			0
002.04	Protein, Crude, Copper Catalyst (%)	0504	92.750	1.6800				2			0
002.04	Protein, Crude, Copper Catalyst (%)	2122	93.810	0.00000				2			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2058	91.660	0.24000				3			0
002.05	Protein, Crude, Copper, Boric Acid (%)	2136	92.250	1.3000				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			
002.05	Protein, Crude, Copper, Boric Acid (%)	2115	93.087	0.19100				3			0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0676	92.185	0.75000	93.588	0.50294	0.31329	38	-2.79	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2162	92.800	0.78000	93.588	0.50294	0.31329	38	-1.57	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0656	92.865	0.13000	93.588	0.50294	0.31329	38	-1.44	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0164	92.925	0.05000	93.588	0.50294	0.31329	38	-1.32	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0047	93.050	0.10000	93.588	0.50294	0.31329	38	-1.07	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0619	93.100	0.00000	93.588	0.50294	0.31329	38	-0.97	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0074	93.125	0.03000	93.588	0.50294	0.31329	38	-0.92	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0098	93.150	0.70000	93.588	0.50294	0.31329	38	-0.87	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0202	93.150	0.02000	93.588	0.50294	0.31329	38	-0.87	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0001	93.225	0.67000	93.588	0.50294	0.31329	38	-0.72	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0171	93.250	0.40000	93.588	0.50294	0.31329	38	-0.67	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0019	93.355	0.61000	93.588	0.50294	0.31329	38	-0.46	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0957	93.395	0.49000	93.588	0.50294	0.31329	38	-0.38	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2156	93.460	0.42000	93.588	0.50294	0.31329	38	-0.25	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0873	93.480	0.46000	93.588	0.50294	0.31329	38	-0.21	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0051	93.500	0.20000	93.588	0.50294	0.31329	38	-0.17	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0504	93.530	0.14000	93.588	0.50294	0.31329	38	-0.12	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0553	93.545	0.67000	93.588	0.50294	0.31329	38	-0.09	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0870	93.553	0.51870	93.588	0.50294	0.31329	38	-0.07	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0042	93.585	0.39000	93.588	0.50294	0.31329	38	-0.01	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0510	93.650	0.10000	93.588	0.50294	0.31329	38	0.12	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2058	93.665	0.01000	93.588	0.50294	0.31329	38	0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2124	93.665	0.01000	93.588	0.50294	0.31329	38	0.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0015	93.675	0.15000	93.588	0.50294	0.31329	38	0.17	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2050	93.680	0.16000	93.588	0.50294	0.31329	38	0.18	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0511	93.780	0.02000	93.588	0.50294	0.31329	38	0.38	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0309	93.806	0.24100	93.588	0.50294	0.31329	38	0.43	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0650	93.950	0.10000	93.588	0.50294	0.31329	38	0.72	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0034	93.963	0.18500	93.588	0.50294	0.31329	38	0.74	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0630	94.025	1.0500	93.588	0.50294	0.31329	38	0.87	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0964	94.039	0.28100	93.588	0.50294	0.31329	38	0.90	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2033	94.050	0.10000	93.588	0.50294	0.31329	38	0.92	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0508	94.057	0.28800	93.588	0.50294	0.31329	38	0.93	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0065	94.168	0.09550	93.588	0.50294	0.31329	38	1.15	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0407	94.231	0.61600	93.588	0.50294	0.31329	38	1.28	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0876	94.425	0.57000	93.588	0.50294	0.31329	38	1.66	0%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2187	94.620	0.38000	93.588	0.50294	0.31329	38	2.05	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0958	94.870	0.02000	93.588	0.50294	0.31329	38	2.55	1%	0
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	2089	93.375	2.0500	93.588	0.50294	0.31329	38	-0.42	0%	1
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0208	94.100	2.0000	93.588	0.50294	0.31329	38	1.02	0%	1
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	0615	106.55	0.20000	93.588	0.50294	0.31329	38	25.77	7%	2

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			
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	0615	0.32750	0.06500	0.71114	0.54776	0.06338	4			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2115	0.40500	0.00000	0.71114	0.54776	0.06338	4			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	0309	0.59705	0.09850	0.71114	0.54776	0.06338	4			0
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	2033	1.5150	0.09000	0.71114	0.54776	0.06338	4			0
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	0504	0.50500	0.07000				1			0
003.06	Fat, Crude, Pet Ether (%)	2187	0.48500	0.11000				2			0
003.06	Fat, Crude, Pet Ether (%)	0511	0.77000	0.02000				2			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0508	0.37790	0.14780	0.67448	0.41432	0.12195	4			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0630	0.39500	0.05000	0.67448	0.41432	0.12195	4			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0098	0.66000	0.26000	0.67448	0.41432	0.12195	4			0
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	0656	1.2650	0.03000	0.67448	0.41432	0.12195	4			0
003.10	Fat, Crude, Randall, Pet Ether (%)	0051	0.20000	0.00000	0.38767	0.15270	0.07223	7	-1.23	24%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2136	0.28500	0.13000	0.38767	0.15270	0.07223	7	-0.67	13%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2089	0.29000	0.02000	0.38767	0.15270	0.07223	7	-0.64	13%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	2162	0.39500	0.05000	0.38767	0.15270	0.07223	7	0.05	1%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0676	0.46000	0.02000	0.38767	0.15270	0.07223	7	0.47	9%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0870	0.52370	0.00560	0.38767	0.15270	0.07223	7	0.89	18%	0
003.10	Fat, Crude, Randall, Pet Ether (%)	0098	0.56000	0.28000	0.38767	0.15270	0.07223	7	1.13	22%	0
003.12	Fat, Crude, Hexane Ext (%)	0171	0.45500	0.19000				2			0
003.12	Fat, Crude, Hexane Ext (%)	2058	0.47500	0.01000				2			0
003.13	Fat, Crude, Randall, Hexane Ext. (%)	0098	0.75500	0.25000				1			0
003.14	Fat, Crude, Ankom (%)	0876	0.24500	0.01000	0.37814	0.11739	0.06890	6	-1.13	18%	0
003.14	Fat, Crude, Ankom (%)	2115	0.31050	0.00700	0.37814	0.11739	0.06890	6	-0.58	9%	0
003.14	Fat, Crude, Ankom (%)	0619	0.37950	0.13700	0.37814	0.11739	0.06890	6	0.01	0%	0
003.14	Fat, Crude, Ankom (%)	0407	0.38960	0.01940	0.37814	0.11739	0.06890	6	0.10	2%	0
003.14	Fat, Crude, Ankom (%)	0202	0.39000	0.04000	0.37814	0.11739	0.06890	6	0.10	2%	0
003.14	Fat, Crude, Ankom (%)	0019	0.57000	0.20000	0.37814	0.11739	0.06890	6	1.63	25%	0
003.99	Fat, Crude, Miscellaneous (%)	0047	0.47000	0.00000				1			0
004.00	Fiber, Crude, Asbestos Free (%)	0511	0.15000	0.10000	0.20371	0.05652	0.04258	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0309	0.15985	0.00030	0.20371	0.05652	0.04258	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0171	0.25000	0.04000	0.20371	0.05652	0.04258	4			0
004.00	Fiber, Crude, Asbestos Free (%)	0504	0.25500	0.03000	0.20371	0.05652	0.04258	4			0
004.03	Fiber, Crude, Fritted Glass (%)	2058	0.26500	0.01000				2			0
004.03	Fiber, Crude, Fritted Glass (%)	2089	0.65000	0.24000				2			0
004.03	Fiber, Crude, Fritted Glass (%)	2033	< 0.2					2			5
004.06	Fiber, Crude, Fibertec (%)	2115	0.12000	0.00000				3			0
004.06	Fiber, Crude, Fibertec (%)	0676	0.29000	0.06000				3			0
004.06	Fiber, Crude, Fibertec (%)	0656	0.30500	0.03000				3			0
004.06	Fiber, Crude, Fibertec (%)	0845	1.3650	0.79000				3			1
004.07	Fiber, Crude, ANKOM (%)	0619	0.09000	0.02800	0.39741	0.32612	0.08300	7	-0.94	39%	0
004.07	Fiber, Crude, ANKOM (%)	2115	0.21700	0.01600	0.39741	0.32612	0.08300	7	-0.55	23%	0
004.07	Fiber, Crude, ANKOM (%)	0407	0.27990	0.02700	0.39741	0.32612	0.08300	7	-0.36	15%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
004.07	Fiber, Crude, ANKOM (%)	0553	0.29500	0.25000	0.39741	0.32612	0.08300	7	-0.31	13%	0
004.07	Fiber, Crude, ANKOM (%)	0015	0.30000	0.08000	0.39741	0.32612	0.08300	7	-0.30	12%	0
004.07	Fiber, Crude, ANKOM (%)	0019	0.72500	0.05000	0.39741	0.32612	0.08300	7	1.00	41%	0
004.07	Fiber, Crude, ANKOM (%)	0876	0.87500	0.13000	0.39741	0.32612	0.08300	7	1.46	60%	0
004.07	Fiber, Crude, ANKOM (%)	0870	< 0.1		0.39741	0.32612	0.08300	7			5
004.07	Fiber, Crude, ANKOM (%)	2124	< 0.1		0.39741	0.32612	0.08300	7			5
005.00	Ash, 2h @ 600°C (%)	0019	1.6500	0.10000	1.7607	0.06191	0.06136	31	-1.79	3%	0
005.00	Ash, 2h @ 600°C (%)	0957	1.6550	0.09000	1.7607	0.06191	0.06136	31	-1.71	3%	0
005.00	Ash, 2h @ 600°C (%)	0511	1.6850	0.13000	1.7607	0.06191	0.06136	31	-1.22	2%	0
005.00	Ash, 2h @ 600°C (%)	0309	1.6900	0.00000	1.7607	0.06191	0.06136	31	-1.14	2%	0
005.00	Ash, 2h @ 600°C (%)	0208	1.6950	0.07000	1.7607	0.06191	0.06136	31	-1.06	2%	0
005.00	Ash, 2h @ 600°C (%)	0001	1.6967	0.00180	1.7607	0.06191	0.06136	31	-1.03	2%	0
005.00	Ash, 2h @ 600°C (%)	0964	1.7025	0.08700	1.7607	0.06191	0.06136	31	-0.94	2%	0
005.00	Ash, 2h @ 600°C (%)	0027	1.7315	0.01500	1.7607	0.06191	0.06136	31	-0.47	1%	0
005.00	Ash, 2h @ 600°C (%)	0407	1.7329	0.00870	1.7607	0.06191	0.06136	31	-0.45	1%	0
005.00	Ash, 2h @ 600°C (%)	0630	1.7350	0.11000	1.7607	0.06191	0.06136	31	-0.42	1%	0
005.00	Ash, 2h @ 600°C (%)	2115	1.7350	0.07000	1.7607	0.06191	0.06136	31	-0.42	1%	0
005.00	Ash, 2h @ 600°C (%)	0553	1.7450	0.11000	1.7607	0.06191	0.06136	31	-0.25	0%	0
005.00	Ash, 2h @ 600°C (%)	0870	1.7465	0.01980	1.7607	0.06191	0.06136	31	-0.23	0%	0
005.00	Ash, 2h @ 600°C (%)	0015	1.7500	0.02000	1.7607	0.06191	0.06136	31	-0.17	0%	0
005.00	Ash, 2h @ 600°C (%)	0051	1.7500	0.10000	1.7607	0.06191	0.06136	31	-0.17	0%	0
005.00	Ash, 2h @ 600°C (%)	0958	1.7500	0.04000	1.7607	0.06191	0.06136	31	-0.17	0%	0
005.00	Ash, 2h @ 600°C (%)	0510	1.7600	0.16000	1.7607	0.06191	0.06136	31	-0.01	0%	0
005.00	Ash, 2h @ 600°C (%)	0171	1.7750	0.01000	1.7607	0.06191	0.06136	31	0.23	0%	0
005.00	Ash, 2h @ 600°C (%)	0047	1.7800	0.04000	1.7607	0.06191	0.06136	31	0.31	1%	0
005.00	Ash, 2h @ 600°C (%)	0164	1.7850	0.01000	1.7607	0.06191	0.06136	31	0.39	1%	0
005.00	Ash, 2h @ 600°C (%)	0615	1.7850	0.07000	1.7607	0.06191	0.06136	31	0.39	1%	0
005.00	Ash, 2h @ 600°C (%)	0876	1.7850	0.01000	1.7607	0.06191	0.06136	31	0.39	1%	0
005.00	Ash, 2h @ 600°C (%)	2162	1.7850	0.11000	1.7607	0.06191	0.06136	31	0.39	1%	0
005.00	Ash, 2h @ 600°C (%)	0098	1.7950	0.03000	1.7607	0.06191	0.06136	31	0.55	1%	0
005.00	Ash, 2h @ 600°C (%)	0845	1.8050	0.05000	1.7607	0.06191	0.06136	31	0.71	1%	0
005.00	Ash, 2h @ 600°C (%)	0873	1.8200	0.06000	1.7607	0.06191	0.06136	31	0.96	2%	0
005.00	Ash, 2h @ 600°C (%)	0656	1.8300	0.02000	1.7607	0.06191	0.06136	31	1.12	2%	0
005.00	Ash, 2h @ 600°C (%)	2124	1.8400	0.02000	1.7607	0.06191	0.06136	31	1.28	2%	0
005.00	Ash, 2h @ 600°C (%)	2033	1.8500	0.10000	1.7607	0.06191	0.06136	31	1.44	3%	0
005.00	Ash, 2h @ 600°C (%)	0504	1.8850	0.13000	1.7607	0.06191	0.06136	31	2.01	4%	0
005.00	Ash, 2h @ 600°C (%)	2089	2.0650	0.11000	1.7607	0.06191	0.06136	31	4.91	9%	0
005.00	Ash, 2h @ 600°C (%)	0650	1.8750	0.31000	1.7607	0.06191	0.06136	31	1.85	3%	1
005.03	Ash, Microwave furnace (%)	2187	1.8150	0.03000				1			0
005.05	Ash, 3h @ 550°C (%)	0889	1.6800	0.08000	1.7475	0.04735	0.07000	4			0
005.05	Ash, 3h @ 550°C (%)	0065	1.7550	0.05000	1.7475	0.04735	0.07000	4			0
005.05	Ash, 3h @ 550°C (%)	2058	1.7650	0.01000	1.7475	0.04735	0.07000	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			
005.05	Ash, 3h @ 550°C (%)	2050	1.7900	0.14000	1.7475	0.04735	0.07000	4			0
005.99	Ash, Miscellaneous (%)	0202	1.6250	0.01000				3			0
005.99	Ash, Miscellaneous (%)	0676	1.8150	0.01000				3			0
005.99	Ash, Miscellaneous (%)	2136	1.8300	0.02000				3			0
006.01	Total Sugars, Mod. Fehling Soln (%)	0407	0.02000	0.04000				0			4
008.02	Fiber, Acid Detergent, Crucible (%)	0676	0.06500	0.01000				2			0
008.02	Fiber, Acid Detergent, Crucible (%)	0309	0.10000	0.00000				2			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0015	0.60500	0.23000	1.4256	0.90773	0.39623	4			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0164	1.0500	0.90000	1.4256	0.90773	0.39623	4			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	0870	1.3375	0.21490	1.4256	0.90773	0.39623	4			0
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	2115	2.7100	0.24000	1.4256	0.90773	0.39623	4			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0676	0.51500	0.01000				2			0
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	0309	1.5101	0.14130				2			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	2115	0.28500	0.01000				3			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0015	0.66000	0.16000				3			0
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	0870	0.69840	0.04920				3			0
010.99	Moisture, Miscellaneous (%)	2089	9.2400	0.30000				2			0
010.99	Moisture, Miscellaneous (%)	2033	10.065	0.01000				2			0
011.01	Loss on Drying, 135°C 2hr (%)	0615	9.6750	0.05000	10.106	0.18458	0.09159	19	-2.33	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0164	9.9100	0.02000	10.106	0.18458	0.09159	19	-1.06	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0407	9.9125	0.00410	10.106	0.18458	0.09159	19	-1.05	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0511	9.9150	0.37000	10.106	0.18458	0.09159	19	-1.03	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0958	9.9150	0.13000	10.106	0.18458	0.09159	19	-1.03	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0047	10.040	0.04000	10.106	0.18458	0.09159	19	-0.36	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0957	10.040	0.36000	10.106	0.18458	0.09159	19	-0.36	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	2033	10.075	0.01000	10.106	0.18458	0.09159	19	-0.17	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0171	10.080	0.10000	10.106	0.18458	0.09159	19	-0.14	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0051	10.105	0.17000	10.106	0.18458	0.09159	19	0.00	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0309	10.105	0.03000	10.106	0.18458	0.09159	19	0.00	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0876	10.110	0.02000	10.106	0.18458	0.09159	19	0.02	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0202	10.200	0.04000	10.106	0.18458	0.09159	19	0.51	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0510	10.200	0.00000	10.106	0.18458	0.09159	19	0.51	0%	0
011.01	Loss on Drying, 135°C 2hr (%)	0650	10.270	0.16000	10.106	0.18458	0.09159	19	0.89	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0208	10.300	0.00000	10.106	0.18458	0.09159	19	1.05	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	2162	10.305	0.01000	10.106	0.18458	0.09159	19	1.08	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0870	10.312	0.02610	10.106	0.18458	0.09159	19	1.12	1%	0
011.01	Loss on Drying, 135°C 2hr (%)	0098	10.410	0.20000	10.106	0.18458	0.09159	19	1.65	2%	0
011.01	Loss on Drying, 135°C 2hr (%)	0553	9.6750	0.59000	10.106	0.18458	0.09159	19	-2.33	2%	1
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	0870	< 0.45					0			5
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0407	0.29000	0.04000	0.83116	0.57143	0.06269	7	-0.95	33%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0504	0.49000	0.02000	0.83116	0.57143	0.06269	7	-0.60	21%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	2156	0.55500	0.17000	0.83116	0.57143	0.06269	7	-0.48	17%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	2115	0.56100	0.02800	0.83116	0.57143	0.06269	7	-0.47	16%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0309	0.93380	0.13080	0.83116	0.57143	0.06269	7	0.18	6%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0098	1.3000	0.04000	0.83116	0.57143	0.06269	7	0.82	28%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0202	1.7850	0.01000	0.83116	0.57143	0.06269	7	1.67	57%	0
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	0615	80.550	0.10000	0.83116	0.57143	0.06269	7	139.51	4796%	2
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0873	0.87000	0.08000	1.1920	0.16495	0.06431	12	-1.95	14%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0958	1.0350	0.05000	1.1920	0.16495	0.06431	12	-0.95	7%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0208	1.0600	0.04000	1.1920	0.16495	0.06431	12	-0.80	6%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0676	1.1200	0.04000	1.1920	0.16495	0.06431	12	-0.44	3%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0065	1.1350	0.03000	1.1920	0.16495	0.06431	12	-0.35	2%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0171	1.1400	0.02000	1.1920	0.16495	0.06431	12	-0.32	2%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0650	1.2200	0.10000	1.1920	0.16495	0.06431	12	0.17	1%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0957	1.2550	0.25000	1.1920	0.16495	0.06431	12	0.38	3%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0553	1.2700	0.04000	1.1920	0.16495	0.06431	12	0.47	3%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0001	1.3201	0.01190	1.1920	0.16495	0.06431	12	0.78	5%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0870	1.3650	0.02980	1.1920	0.16495	0.06431	12	1.05	7%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0164	1.5000	0.08000	1.1920	0.16495	0.06431	12	1.87	13%	0
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	0019	1.0400	0.38000	1.1920	0.16495	0.06431	12	-0.92	6%	1
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	0845	0.26500	0.05000				2			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2162	0.37500	0.07000				2			0
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	2124	< 0.1					2			5
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	0042	0.72500	0.01000				2			0
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	0019	0.87000	0.08000				2			0
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	0171	4.6650	0.03000				1			0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	0510	2.5000	1.0000				2			0
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	2033	25.500	6.4000				2			0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	0510	10.000	0.00000				1			0
017.43	Boron, ICP, Microwave (mg / kg (ppm))	2033	< 0.5					1			5
019.00	Calcium, Ox-Mn04 Vol. (%)	2115	0.02950	0.00100				1			0
019.31	Calcium, AAS, Dry ash (%)	0650	0.04250	0.00300				1			0
019.32	Calcium, AAS, Open vessel (%)	0656	0.08000	0.00000				1			0
019.41	Calcium, ICP, Dry ash (%)	0511	0.04000	0.00000	0.05052	0.00925	0.00371	9	-1.14	10%	0
019.41	Calcium, ICP, Dry ash (%)	0208	0.04100	0.00200	0.05052	0.00925	0.00371	9	-1.03	9%	0
019.41	Calcium, ICP, Dry ash (%)	0051	0.04500	0.01000	0.05052	0.00925	0.00371	9	-0.60	5%	0
019.41	Calcium, ICP, Dry ash (%)	0164	0.04750	0.00100	0.05052	0.00925	0.00371	9	-0.33	3%	0
019.41	Calcium, ICP, Dry ash (%)	0407	0.04890	0.00200	0.05052	0.00925	0.00371	9	-0.18	2%	0
019.41	Calcium, ICP, Dry ash (%)	0098	0.05380	0.00540	0.05052	0.00925	0.00371	9	0.35	3%	0
019.41	Calcium, ICP, Dry ash (%)	0074	0.05500	0.01000	0.05052	0.00925	0.00371	9	0.48	4%	0
019.41	Calcium, ICP, Dry ash (%)	0019	0.06000	0.00000	0.05052	0.00925	0.00371	9	1.02	9%	0
019.41	Calcium, ICP, Dry ash (%)	0171	0.06350	0.00300	0.05052	0.00925	0.00371	9	1.40	13%	0
019.42	Calcium, ICP, Open vessel (%)	0870	0.03875	0.00230				3			0
019.42	Calcium, ICP, Open vessel (%)	0042	0.08300	0.07600				3			0

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019.42	Calcium, ICP, Open vessel (%)	0504	0.10000	0.05800				3			0
019.43	Calcium, ICP, Microwave (%)	2124	0.02500	0.01000	0.04267	0.00811	0.00465	10	-2.18	21%	0
019.43	Calcium, ICP, Microwave (%)	2136	0.03450	0.00100	0.04267	0.00811	0.00465	10	-1.01	10%	0
019.43	Calcium, ICP, Microwave (%)	2058	0.03950	0.00100	0.04267	0.00811	0.00465	10	-0.39	4%	0
019.43	Calcium, ICP, Microwave (%)	0510	0.04000	0.00000	0.04267	0.00811	0.00465	10	-0.33	3%	0
019.43	Calcium, ICP, Microwave (%)	0964	0.04085	0.00890	0.04267	0.00811	0.00465	10	-0.22	2%	0
019.43	Calcium, ICP, Microwave (%)	2187	0.04420	0.00240	0.04267	0.00811	0.00465	10	0.19	2%	0
019.43	Calcium, ICP, Microwave (%)	0034	0.04480	0.00600	0.04267	0.00811	0.00465	10	0.26	2%	0
019.43	Calcium, ICP, Microwave (%)	0098	0.04850	0.00320	0.04267	0.00811	0.00465	10	0.72	7%	0
019.43	Calcium, ICP, Microwave (%)	2033	0.04900	0.00400	0.04267	0.00811	0.00465	10	0.78	7%	0
019.43	Calcium, ICP, Microwave (%)	2089	0.19500	0.01000	0.04267	0.00811	0.00465	10	18.79	179%	0
019.44	Calcium, ICP, Dry ash (%)	0065	0.03950	0.00100				2			0
019.44	Calcium, ICP, Dry ash (%)	0873	0.05500	0.01000				2			0
019.52	Calcium, ICP-MS, Open vessel (%)	0047	0.06150	0.00500				1			0
019.53	Calcium, ICP-MS, Microwave (%)	0553	0.04250	0.00640				1			0
019.99	Calcium, Miscellaneous (%)	0619	0.05550	0.01900				2			0
019.99	Calcium, Miscellaneous (%)	0676	0.10500	0.03000				2			0
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0			5
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	0964	0.10925	0.00050				1			0
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	2033	< 0.1					1			5
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	0656	0.00000	0.00000				0			4
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0208	3.0420	0.84200	4.2235	0.98729	1.1008	9	-1.20	14%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0164	3.2500	0.30000	4.2235	0.98729	1.1008	9	-0.99	12%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0098	3.4900	0.54000	4.2235	0.98729	1.1008	9	-0.74	9%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0511	3.9000	1.4000	4.2235	0.98729	1.1008	9	-0.33	4%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0074	4.5000	1.0000	4.2235	0.98729	1.1008	9	0.28	3%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0051	4.5700	2.4600	4.2235	0.98729	1.1008	9	0.35	4%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0171	4.5850	0.01000	4.2235	0.98729	1.1008	9	0.37	4%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0019	4.9700	3.0200	4.2235	0.98729	1.1008	9	0.76	9%	0
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	0407	27.479	0.33510	4.2235	0.98729	1.1008	9	23.55	275%	0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0870	3.2010	0.15600				2			0
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	0042	9.6450	8.1100				2			0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2124	2.8500	0.12000	3.1358	0.28878	0.09708	8	-0.99	5%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0964	2.9386	0.10540	3.1358	0.28878	0.09708	8	-0.68	3%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2033	2.9500	0.30000	3.1358	0.28878	0.09708	8	-0.64	3%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0510	3.0000	0.00000	3.1358	0.28878	0.09708	8	-0.47	2%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0508	3.0850	0.14520	3.1358	0.28878	0.09708	8	-0.18	1%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0098	3.3250	0.01000	3.1358	0.28878	0.09708	8	0.66	3%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	0027	3.3690	0.05600	3.1358	0.28878	0.09708	8	0.81	4%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2136	4.0200	0.04000	3.1358	0.28878	0.09708	8	3.06	14%	0
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2089	8.0200	3.7800	3.1358	0.28878	0.09708	8	16.91	78%	1
022.43	Copper, ICP, Microwave (mg / kg (ppm))	2058	< 3.35		3.1358	0.28878	0.09708	8			5

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022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	0047	4.1300	0.02000				1			0
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	0553	3.4750	0.09000				1			0
022.99	Copper, Miscellaneous (mg / kg (ppm))	0619	4.0600	0.22000				1			0
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	0001	2,686.5	85.000				1			0
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	0656	2,610.7	7.9200				1			0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0019	2,155.5	85.000	2,511.8	153.37	55.652	9	-2.32	7%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	2114	2,328.2	2.8900	2,511.8	153.37	55.652	9	-1.20	4%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0511	2,453.5	187.00	2,511.8	153.37	55.652	9	-0.38	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0171	2,513.5	1.0000	2,511.8	153.37	55.652	9	0.01	0%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0051	2,536.0	42.000	2,511.8	153.37	55.652	9	0.16	0%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0074	2,571.0	30.000	2,511.8	153.37	55.652	9	0.39	1%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0208	2,604.5	77.000	2,511.8	153.37	55.652	9	0.60	2%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0407	2,648.2	15.979	2,511.8	153.37	55.652	9	0.89	3%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0164	2,670.0	60.000	2,511.8	153.37	55.652	9	1.03	3%	0
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	0098	2,410.5	391.00	2,511.8	153.37	55.652	9	-0.66	2%	1
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0870	2,632.0	126.00				2			0
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	0042	2,675.5	49.000				2			0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2058	2,327.7	44.483	2,595.9	186.37	111.85	10	-1.44	5%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0098	2,428.0	164.00	2,595.9	186.37	111.85	10	-0.90	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0510	2,440.0	20.000	2,595.9	186.37	111.85	10	-0.84	3%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2033	2,600.0	0.00000	2,595.9	186.37	111.85	10	0.02	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0508	2,603.7	55.900	2,595.9	186.37	111.85	10	0.04	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0034	2,609.5	299.00	2,595.9	186.37	111.85	10	0.07	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	0964	2,621.2	120.37	2,595.9	186.37	111.85	10	0.14	0%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2089	2,674.1	102.72	2,595.9	186.37	111.85	10	0.42	2%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2124	2,779.0	22.000	2,595.9	186.37	111.85	10	0.98	4%	0
025.43	Iron, ICP, Microwave (mg / kg (ppm))	2136	2,885.0	290.00	2,595.9	186.37	111.85	10	1.55	6%	0
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	0047	2,664.5	27.000				1			0
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	0553	2,575.0	90.000				1			0
025.99	Iron, Miscellaneous (mg / kg (ppm))	0619	1,629.5	55.000				1			0
027.31	Magnesium, AAS, Dry ash (%)	0650	0.01450	0.00300				1			0
027.32	Magnesium, AAS, Open vessel (%)	0656	0.01500	0.01000				1			0
027.41	Magnesium, ICP, Dry ash (%)	0019	0.01000	0.00000	0.01379	0.00095	0.00034	9	-3.99	14%	0
027.41	Magnesium, ICP, Dry ash (%)	0164	0.01250	0.00100	0.01379	0.00095	0.00034	9	-1.36	5%	0
027.41	Magnesium, ICP, Dry ash (%)	0051	0.01360	0.00020	0.01379	0.00095	0.00034	9	-0.20	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0074	0.01400	0.00000	0.01379	0.00095	0.00034	9	0.22	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0208	0.01400	0.00000	0.01379	0.00095	0.00034	9	0.22	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0511	0.01400	0.00000	0.01379	0.00095	0.00034	9	0.22	1%	0
027.41	Magnesium, ICP, Dry ash (%)	0098	0.01450	0.00080	0.01379	0.00095	0.00034	9	0.75	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0171	0.01450	0.00100	0.01379	0.00095	0.00034	9	0.75	3%	0
027.41	Magnesium, ICP, Dry ash (%)	0407	0.01465	0.00010	0.01379	0.00095	0.00034	9	0.91	3%	0
027.42	Magnesium, ICP, Open vessel (%)	0870	0.01080	0.00040				2			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			
027.42	Magnesium, ICP, Open vessel (%)	0042	0.01500	0.00200				2			0
027.43	Magnesium, ICP, Microwave (%)	0510	0.01000	0.00000	0.01281	0.00244	0.00017	10	-1.15	11%	0
027.43	Magnesium, ICP, Microwave (%)	2089	0.01000	0.00000	0.01281	0.00244	0.00017	10	-1.15	11%	0
027.43	Magnesium, ICP, Microwave (%)	2124	0.01000	0.00000	0.01281	0.00244	0.00017	10	-1.15	11%	0
027.43	Magnesium, ICP, Microwave (%)	2058	0.01200	0.00000	0.01281	0.00244	0.00017	10	-0.33	3%	0
027.43	Magnesium, ICP, Microwave (%)	0034	0.01335	0.00010	0.01281	0.00244	0.00017	10	0.22	2%	0
027.43	Magnesium, ICP, Microwave (%)	2136	0.01395	0.00010	0.01281	0.00244	0.00017	10	0.47	4%	0
027.43	Magnesium, ICP, Microwave (%)	2033	0.01400	0.00000	0.01281	0.00244	0.00017	10	0.49	5%	0
027.43	Magnesium, ICP, Microwave (%)	0508	0.01410	0.00000	0.01281	0.00244	0.00017	10	0.53	5%	0
027.43	Magnesium, ICP, Microwave (%)	2187	0.01530	0.00060	0.01281	0.00244	0.00017	10	1.02	10%	0
027.43	Magnesium, ICP, Microwave (%)	0098	0.01535	0.00090	0.01281	0.00244	0.00017	10	1.04	10%	0
027.43	Magnesium, ICP, Microwave (%)	0964	134.67	3.2610	0.01281	0.00244	0.00017	10	55188.89	525813%	2
027.44	Magnesium, ICP, Dry ash (%)	0873	0.01500	0.00000				2			0
027.44	Magnesium, ICP, Dry ash (%)	0065	0.01600	0.00200				2			0
027.52	Magnesium, ICP-MS, Open vessel (%)	0047	0.01600	0.00000				1			0
027.53	Magnesium, ICP-MS, Microwave (%)	0553	0.01395	0.00030				1			0
027.99	Magnesium, Miscellaneous (%)	0619	0.01450	0.00100				1			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0171	0.37850	0.00300	0.69588	0.34367	0.10825	4			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0051	0.42500	0.09000	0.69588	0.34367	0.10825	4			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0019	0.93000	0.24000	0.69588	0.34367	0.10825	4			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0164	1.0500	0.10000	0.69588	0.34367	0.10825	4			0
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0407	16.615	1.9912	0.69588	0.34367	0.10825	4			2
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0074	0.50000	1.0000	0.69588	0.34367	0.10825	4			4
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	0098	< 1.25		0.69588	0.34367	0.10825	4			5
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	0870	< 1					0			5
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2033	0.18500	0.07000	0.32010	0.13656	0.14500	4			0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2124	0.22000	0.00000	0.32010	0.13656	0.14500	4			0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0508	0.43540	0.05000	0.32010	0.13656	0.14500	4			0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2089	0.44000	0.46000	0.32010	0.13656	0.14500	4			0
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0964	1.0368	0.85440	0.32010	0.13656	0.14500	4			1
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	0098	< 1.66		0.32010	0.13656	0.14500	4			5
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	2058	< 3.35		0.32010	0.13656	0.14500	4			5
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	0047	0.44800	0.01800				1			0
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	2136	0.37900	0.02000				1			0
028.99	Manganese, Miscellaneous (mg / kg (ppm))	0619	0.23550	0.01100				1			0
031.01	Phosphorus, Photometric (%)	0511	0.16000	0.00000	0.16858	0.00597	0.00750	6	-1.44	3%	0
031.01	Phosphorus, Photometric (%)	0208	0.16550	0.00300	0.16858	0.00597	0.00750	6	-0.52	1%	0
031.01	Phosphorus, Photometric (%)	0656	0.17000	0.02000	0.16858	0.00597	0.00750	6	0.24	0%	0
031.01	Phosphorus, Photometric (%)	2058	0.17000	0.02000	0.16858	0.00597	0.00750	6	0.24	0%	0
031.01	Phosphorus, Photometric (%)	0650	0.17050	0.00100	0.16858	0.00597	0.00750	6	0.32	1%	0
031.01	Phosphorus, Photometric (%)	2115	0.17550	0.00100	0.16858	0.00597	0.00750	6	1.16	2%	0
031.03	Phosphorus, Autoanalyzer (%)	0504	0.19500	0.01000				1			0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
031.41	Phosphorus, ICP, Dry ash (%)	0019	0.14000	0.00000	0.16344	0.01099	0.00351	8	-2.13	7%	0
031.41	Phosphorus, ICP, Dry ash (%)	0098	0.15225	0.00870	0.16344	0.01099	0.00351	8	-1.02	3%	0
031.41	Phosphorus, ICP, Dry ash (%)	0051	0.16125	0.00390	0.16344	0.01099	0.00351	8	-0.20	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0208	0.16450	0.00500	0.16344	0.01099	0.00351	8	0.10	0%	0
031.41	Phosphorus, ICP, Dry ash (%)	0164	0.16650	0.00100	0.16344	0.01099	0.00351	8	0.28	1%	0
031.41	Phosphorus, ICP, Dry ash (%)	0074	0.17000	0.00000	0.16344	0.01099	0.00351	8	0.60	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0171	0.17000	0.00000	0.16344	0.01099	0.00351	8	0.60	2%	0
031.41	Phosphorus, ICP, Dry ash (%)	0407	0.17605	0.00950	0.16344	0.01099	0.00351	8	1.15	4%	0
031.42	Phosphorus, ICP, Open vessel (%)	0870	0.15060	0.00860				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0042	0.15450	0.00100				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0047	0.18000	0.00000				3			0
031.42	Phosphorus, ICP, Open vessel (%)	0504	0.17900	0.03800				3			1
031.43	Phosphorus, ICP, Microwave (%)	2058	0.15150	0.00100	0.16409	0.00574	0.00497	11	-2.19	4%	0
031.43	Phosphorus, ICP, Microwave (%)	2124	0.16000	0.00000	0.16409	0.00574	0.00497	11	-0.71	1%	0
031.43	Phosphorus, ICP, Microwave (%)	0034	0.16155	0.00210	0.16409	0.00574	0.00497	11	-0.44	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2187	0.16170	0.00520	0.16409	0.00574	0.00497	11	-0.42	1%	0
031.43	Phosphorus, ICP, Microwave (%)	2033	0.16250	0.00100	0.16409	0.00574	0.00497	11	-0.28	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0098	0.16390	0.01160	0.16409	0.00574	0.00497	11	-0.03	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0508	0.16420	0.00460	0.16409	0.00574	0.00497	11	0.02	0%	0
031.43	Phosphorus, ICP, Microwave (%)	2089	0.16500	0.01000	0.16409	0.00574	0.00497	11	0.16	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0964	0.16530	0.00420	0.16409	0.00574	0.00497	11	0.21	0%	0
031.43	Phosphorus, ICP, Microwave (%)	0510	0.18000	0.00000	0.16409	0.00574	0.00497	11	2.77	5%	0
031.43	Phosphorus, ICP, Microwave (%)	2136	0.18150	0.01500	0.16409	0.00574	0.00497	11	3.03	5%	0
031.44	Phosphorus, ICP, Dry ash (%)	0873	0.16000	0.00000				2			0
031.44	Phosphorus, ICP, Dry ash (%)	0065	0.18000	0.02000				2			0
031.53	Phosphorus, ICP-MS, Microwave (%)	0553	0.17850	0.00500				1			0
031.99	Phosphorus, Miscellaneous (%)	0676	0.16000	0.02000				2			0
031.99	Phosphorus, Miscellaneous (%)	0619	0.16300	0.01000				2			0
032.02	Potassium, Flame Emission (%)	0504	0.38500	0.01000				1			0
032.31	Potassium, AAS, Dry ash (%)	0650	0.33000	0.02000				1			0
032.32	Potassium, AAS, Open vessel (%)	0656	0.37000	0.00000				1			0
032.41	Potassium, ICP, Dry ash (%)	0019	0.28500	0.03000	0.34620	0.03612	0.02044	9	-1.69	9%	0
032.41	Potassium, ICP, Dry ash (%)	0407	0.31115	0.00130	0.34620	0.03612	0.02044	9	-0.97	5%	0
032.41	Potassium, ICP, Dry ash (%)	0074	0.31500	0.01000	0.34620	0.03612	0.02044	9	-0.86	5%	0
032.41	Potassium, ICP, Dry ash (%)	0098	0.35500	0.05000	0.34620	0.03612	0.02044	9	0.24	1%	0
032.41	Potassium, ICP, Dry ash (%)	0171	0.35950	0.00300	0.34620	0.03612	0.02044	9	0.37	2%	0
032.41	Potassium, ICP, Dry ash (%)	0164	0.36100	0.02200	0.34620	0.03612	0.02044	9	0.41	2%	0
032.41	Potassium, ICP, Dry ash (%)	0051	0.36415	0.01370	0.34620	0.03612	0.02044	9	0.50	3%	0
032.41	Potassium, ICP, Dry ash (%)	0511	0.37500	0.05000	0.34620	0.03612	0.02044	9	0.80	4%	0
032.41	Potassium, ICP, Dry ash (%)	0208	0.38300	0.00400	0.34620	0.03612	0.02044	9	1.02	5%	0
032.42	Potassium, ICP, Open vessel (%)	0042	0.37850	0.01500	0.39690	0.01544	0.02185	4			0
032.42	Potassium, ICP, Open vessel (%)	0870	0.39210	0.01240	0.39690	0.01544	0.02185	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			
032.42	Potassium, ICP, Open vessel (%)	0504	0.40200	0.03000	0.39690	0.01544	0.02185	4			0
032.42	Potassium, ICP, Open vessel (%)	0047	0.41500	0.03000	0.39690	0.01544	0.02185	4			0
032.43	Potassium, ICP, Microwave (%)	2058	0.36600	0.00200	0.39445	0.02959	0.01584	11	-0.96	4%	0
032.43	Potassium, ICP, Microwave (%)	0510	0.37000	0.00000	0.39445	0.02959	0.01584	11	-0.83	3%	0
032.43	Potassium, ICP, Microwave (%)	2089	0.37500	0.03000	0.39445	0.02959	0.01584	11	-0.66	2%	0
032.43	Potassium, ICP, Microwave (%)	0964	0.37580	0.02300	0.39445	0.02959	0.01584	11	-0.63	2%	0
032.43	Potassium, ICP, Microwave (%)	0034	0.38235	0.01730	0.39445	0.02959	0.01584	11	-0.41	2%	0
032.43	Potassium, ICP, Microwave (%)	2033	0.38500	0.01000	0.39445	0.02959	0.01584	11	-0.32	1%	0
032.43	Potassium, ICP, Microwave (%)	0098	0.39000	0.02000	0.39445	0.02959	0.01584	11	-0.15	1%	0
032.43	Potassium, ICP, Microwave (%)	2187	0.40210	0.02180	0.39445	0.02959	0.01584	11	0.26	1%	0
032.43	Potassium, ICP, Microwave (%)	2124	0.41500	0.01000	0.39445	0.02959	0.01584	11	0.69	3%	0
032.43	Potassium, ICP, Microwave (%)	0508	0.43915	0.03310	0.39445	0.02959	0.01584	11	1.51	6%	0
032.43	Potassium, ICP, Microwave (%)	2136	0.44050	0.00700	0.39445	0.02959	0.01584	11	1.56	6%	0
032.44	Potassium, ICP, Dry ash (%)	2114	0.32510	0.00680				3			0
032.44	Potassium, ICP, Dry ash (%)	0873	0.33500	0.01000				3			0
032.44	Potassium, ICP, Dry ash (%)	0065	0.36000	0.04000				3			0
032.53	Potassium, ICP-MS, Microwave (%)	0553	0.39800	0.00800				1			0
032.99	Potassium, Miscellaneous (%)	0619	0.32350	0.00900				1			0
033.00	Salt as chloride, Sol Cl (%)	0504	0.25000	0.02000				2			0
033.00	Salt as chloride, Sol Cl (%)	0309	0.30195	0.02610				2			0
033.01	Salt as chloride, Poten Cl (%)	0407	0.23650	0.01700	0.28650	0.04390	0.01300	6	-1.14	9%	0
033.01	Salt as chloride, Poten Cl (%)	0164	0.26000	0.00000	0.28650	0.04390	0.01300	6	-0.60	5%	0
033.01	Salt as chloride, Poten Cl (%)	0650	0.26500	0.03000	0.28650	0.04390	0.01300	6	-0.49	4%	0
033.01	Salt as chloride, Poten Cl (%)	0510	0.30000	0.00000	0.28650	0.04390	0.01300	6	0.31	2%	0
033.01	Salt as chloride, Poten Cl (%)	2115	0.32250	0.00100	0.28650	0.04390	0.01300	6	0.82	6%	0
033.01	Salt as chloride, Poten Cl (%)	0098	0.33500	0.03000	0.28650	0.04390	0.01300	6	1.10	8%	0
033.03	Salt as chloride, Quantab (%)	0656	0.36000	0.00000				1			0
033.05	Salt as chloride, Ion Sel Electrode (%)	2033	< 0.1					0			5
034.04	Selenium, AA, Hydride (mg / kg (ppm))	0164	1.1150	0.17000				1			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	0964	0.82300	0.13120				2			0
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2124	1.6200	0.18000				2			0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	0553	1.2050	0.03000				2			0
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	2033	1.6150	0.01000				2			0
035.05	Sodium, Flame Emission (%)	0504	0.20000	0.00000				1			0
035.31	Sodium, AAS, Dry ash (%)	0650	0.20850	0.00300				1			0
035.32	Sodium, AAS, Open vessel (%)	0656	0.21000	0.02000				1			0
035.41	Sodium, ICP, Dry ash (%)	0098	0.18000	0.02000	0.19385	0.01235	0.01052	9	-1.12	4%	0
035.41	Sodium, ICP, Dry ash (%)	0019	0.18500	0.01000	0.19385	0.01235	0.01052	9	-0.72	2%	0
035.41	Sodium, ICP, Dry ash (%)	0873	0.18500	0.01000	0.19385	0.01235	0.01052	9	-0.72	2%	0
035.41	Sodium, ICP, Dry ash (%)	0051	0.18555	0.01370	0.19385	0.01235	0.01052	9	-0.67	2%	0
035.41	Sodium, ICP, Dry ash (%)	0208	0.19150	0.00300	0.19385	0.01235	0.01052	9	-0.19	1%	0
035.41	Sodium, ICP, Dry ash (%)	0164	0.20000	0.01800	0.19385	0.01235	0.01052	9	0.50	2%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
035.41	Sodium, ICP, Dry ash (%)	0171	0.20000	0.00000	0.19385	0.01235	0.01052	9	0.50	2%	0
035.41	Sodium, ICP, Dry ash (%)	0407	0.20760	0.00000	0.19385	0.01235	0.01052	9	1.11	4%	0
035.41	Sodium, ICP, Dry ash (%)	0065	0.21000	0.02000	0.19385	0.01235	0.01052	9	1.31	4%	0
035.42	Sodium, ICP, Open vessel (%)	0870	0.19440	0.00800				3			0
035.42	Sodium, ICP, Open vessel (%)	0504	0.19750	0.01500				3			0
035.42	Sodium, ICP, Open vessel (%)	0042	0.20750	0.06900				3			0
035.43	Sodium, ICP, Microwave (%)	0510	0.17150	0.00700	0.18925	0.01229	0.00413	8	-1.44	5%	0
035.43	Sodium, ICP, Microwave (%)	0098	0.18000	0.00000	0.18925	0.01229	0.00413	8	-0.75	2%	0
035.43	Sodium, ICP, Microwave (%)	0964	0.18535	0.00110	0.18925	0.01229	0.00413	8	-0.32	1%	0
035.43	Sodium, ICP, Microwave (%)	2187	0.18605	0.00810	0.18925	0.01229	0.00413	8	-0.26	1%	0
035.43	Sodium, ICP, Microwave (%)	2033	0.18900	0.00600	0.18925	0.01229	0.00413	8	-0.02	0%	0
035.43	Sodium, ICP, Microwave (%)	2089	0.20000	0.00000	0.18925	0.01229	0.00413	8	0.87	3%	0
035.43	Sodium, ICP, Microwave (%)	2124	0.20000	0.00000	0.18925	0.01229	0.00413	8	0.87	3%	0
035.43	Sodium, ICP, Microwave (%)	0508	0.20210	0.01080	0.18925	0.01229	0.00413	8	1.05	3%	0
035.53	Sodium, ICP-MS, Microwave (%)	0553	0.19650	0.00300				1			0
036.42	Sulfur, ICP, Open vessel (%)	0171	0.34500	0.00200	0.40270	0.04739	0.00460	4			0
036.42	Sulfur, ICP, Open vessel (%)	0870	0.38905	0.01110	0.40270	0.04739	0.00460	4			0
036.42	Sulfur, ICP, Open vessel (%)	0164	0.42000	0.00000	0.40270	0.04739	0.00460	4			0
036.42	Sulfur, ICP, Open vessel (%)	0407	0.45675	0.00530	0.40270	0.04739	0.00460	4			0
036.43	Sulfur, ICP, Microwave (%)	2089	0.38000	0.04000	0.40902	0.02655	0.01588	5			0
036.43	Sulfur, ICP, Microwave (%)	2033	0.39000	0.02000	0.40902	0.02655	0.01588	5			0
036.43	Sulfur, ICP, Microwave (%)	0098	0.40390	0.00900	0.40902	0.02655	0.01588	5			0
036.43	Sulfur, ICP, Microwave (%)	0964	0.42620	0.00040	0.40902	0.02655	0.01588	5			0
036.43	Sulfur, ICP, Microwave (%)	0510	0.44500	0.01000	0.40902	0.02655	0.01588	5			0
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	0001	17.750	0.98000				1			0
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	0656	25.070	0.84000				1			0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0511	18.000	0.00000	21.608	3.0592	0.67620	8	-1.18	8%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0019	18.375	0.59000	21.608	3.0592	0.67620	8	-1.06	7%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0164	21.000	0.00000	21.608	3.0592	0.67620	8	-0.20	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0098	21.560	1.9800	21.608	3.0592	0.67620	8	-0.02	0%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0051	21.585	0.51000	21.608	3.0592	0.67620	8	-0.01	0%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0208	22.135	2.2100	21.608	3.0592	0.67620	8	0.17	1%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0171	24.010	0.10000	21.608	3.0592	0.67620	8	0.79	6%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0407	54.223	0.01960	21.608	3.0592	0.67620	8	10.66	75%	0
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	0074	32.500	21.000	21.608	3.0592	0.67620	8	3.56	25%	1
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0870	21.330	0.34000				2			0
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	0042	28.050	13.100				2			0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2058	17.069	0.59800	20.298	1.9891	0.48620	9	-1.62	8%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2124	18.950	0.10000	20.298	1.9891	0.48620	9	-0.68	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0510	19.000	0.00000	20.298	1.9891	0.48620	9	-0.65	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0964	19.927	0.25980	20.298	1.9891	0.48620	9	-0.19	1%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0508	20.456	1.4380	20.298	1.9891	0.48620	9	0.08	0%	0

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2033	20.700	0.00000	20.298	1.9891	0.48620	9	0.20	1%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2136	21.450	1.1000	20.298	1.9891	0.48620	9	0.58	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0098	21.605	0.71000	20.298	1.9891	0.48620	9	0.66	3%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	2089	24.595	0.17000	20.298	1.9891	0.48620	9	2.16	11%	0
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	0027	29.521	3.7000	20.298	1.9891	0.48620	9	4.64	23%	1
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	0047	19.515	0.63000				1			0
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	0553	22.550	0.50000				1			0
037.99	Zinc, Miscellaneous (mg / kg (ppm))	0619	21.500	0.00000				1			0
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	2033	< 0.1					0			5
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	0553	0.01595	0.00230				1			0
101.02	Choline Chloride, LC (mg / kg (ppm))	0051	562.50	11.000				1			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0619	7.5000	0.18000	7.7402	0.32890	0.09808	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0504	7.5150	0.05000	7.7402	0.32890	0.09808	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0870	7.5380	0.00040	7.7402	0.32890	0.09808	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0227	7.9000	0.16000	7.7402	0.32890	0.09808	5			0
120.00	Alanine, Post-col Ninhydrin Der (%)	0171	8.2480	0.10000	7.7402	0.32890	0.09808	5			0
120.05	Alanine, Pre-col AQC Der (%)	0676	7.3450	0.25000				1			0
120.99	Alanine, Miscellaneous (%)	2115	7.4975	0.07900				1			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0870	3.8143	0.02940	3.9925	0.15076	0.05028	5			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0504	3.8650	0.03000	3.9925	0.15076	0.05028	5			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0227	4.0500	0.06000	3.9925	0.15076	0.05028	5			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0619	4.0500	0.08000	3.9925	0.15076	0.05028	5			0
121.00	Arginine, Post-col Ninhydrin Der (%)	0171	4.1830	0.05200	3.9925	0.15076	0.05028	5			0
121.05	Arginine, Pre-col AQC Der (%)	0676	3.8600	0.02000				1			0
121.99	Arginine, Miscellaneous (%)	2115	3.7605	0.01300				1			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0619	9.5400	0.24000	10.679	0.70279	0.16424	5			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0504	10.660	0.02000	10.679	0.70279	0.16424	5			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0870	10.832	0.03520	10.679	0.70279	0.16424	5			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0171	10.908	0.29600	10.679	0.70279	0.16424	5			0
122.00	Aspartic, Post-col Ninhydrin Der (%)	0227	11.455	0.23000	10.679	0.70279	0.16424	5			0
122.05	Aspartic, Pre-col AQC Der (%)	0676	11.205	0.53000				1			0
122.99	Aspartic, Miscellaneous (%)	2115	10.918	0.03800				1			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0227	0.59500	0.03000	0.70318	0.07657	0.01928	5			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0870	0.65840	0.00140	0.70318	0.07657	0.01928	5			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0619	0.71950	0.01900	0.70318	0.07657	0.01928	5			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0171	0.76300	0.02600	0.70318	0.07657	0.01928	5			0
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	0504	0.78000	0.02000	0.70318	0.07657	0.01928	5			0
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	0676	0.68000	0.02000				1			0
124.99	Cysteine/Cystine, Miscellaneous (%)	2115	0.69800	0.01400				1			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0171	6.9880	0.41200	7.7598	0.47034	0.18796	5			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0504	7.6400	0.24000	7.7598	0.47034	0.18796	5			0
125.00	Glutamic, Post-col Ninhydrin Der (%)	0227	7.9850	0.19000	7.7598	0.47034	0.18796	5			0

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125.00	Glutamic, Post-col Ninhydrin Der (%)	0870	8.0611	0.02780	7.7598	0.47034	0.18796	5		0	
125.00	Glutamic, Post-col Ninhydrin Der (%)	0619	8.1250	0.07000	7.7598	0.47034	0.18796	5		0	
125.05	Glutamic, Pre-col AQC Der (%)	0676	7.5650	0.15000				1		0	
125.99	Glutamic, Miscellaneous (%)	2115	7.8195	0.09900				1		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0870	4.2649	0.00080	4.5043	0.17681	0.04596	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0504	4.4200	0.00000	4.5043	0.17681	0.04596	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0171	4.4815	0.03900	4.5043	0.17681	0.04596	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0619	4.6700	0.08000	4.5043	0.17681	0.04596	5		0	
126.00	Glycine, Post-col Ninhydrin Der (%)	0227	4.6850	0.11000	4.5043	0.17681	0.04596	5		0	
126.05	Glycine, Pre-col AQC Der (%)	0676	4.5650	0.15000				1		0	
126.99	Glycine, Miscellaneous (%)	2115	4.4395	0.10100				1		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0171	6.2190	0.19800	6.8468	0.40915	0.14878	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0870	6.6950	0.10590	6.8468	0.40915	0.14878	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0504	6.9850	0.17000	6.8468	0.40915	0.14878	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0619	7.0500	0.08000	6.8468	0.40915	0.14878	5		0	
127.00	Histidine, Post-col Ninhydrin Der (%)	0227	7.2850	0.19000	6.8468	0.40915	0.14878	5		0	
127.05	Histidine, Pre-col AQC Der (%)	0676	6.9850	0.37000				1		0	
127.99	Histidine, Miscellaneous (%)	2115	7.0805	0.04700				1		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0870	0.43755	0.02810	0.53611	0.08579	0.02562	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0227	0.48500	0.03000	0.53611	0.08579	0.02562	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0171	0.51250	0.03100	0.53611	0.08579	0.02562	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0504	0.59500	0.03000	0.53611	0.08579	0.02562	5		0	
128.00	Isoleucine, Post-col Ninhydrin Der (%)	0619	0.65050	0.00900	0.53611	0.08579	0.02562	5		0	
128.05	Isoleucine, Pre-col AQC Der (%)	0676	0.45000	0.00000				1		0	
128.99	Isoleucine, Miscellaneous (%)	2115	0.80600	0.00400				1		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0870	11.819	0.12520	12.298	0.46180	0.17284	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0171	11.839	0.33900	12.298	0.46180	0.17284	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0504	12.400	0.08000	12.298	0.46180	0.17284	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0619	12.550	0.10000	12.298	0.46180	0.17284	5		0	
129.00	Leucine, Post-col Ninhydrin Der (%)	0227	12.880	0.22000	12.298	0.46180	0.17284	5		0	
129.05	Leucine, Pre-col AQC Der (%)	0676	12.005	0.51000				1		0	
129.99	Leucine, Miscellaneous (%)	2115	12.289	0.06000				1		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0171	6.7105	0.10100	8.0714	0.80596	0.06236	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0504	8.2150	0.09000	8.0714	0.80596	0.06236	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0870	8.2715	0.02080	8.0714	0.80596	0.06236	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0619	8.2900	0.06000	8.0714	0.80596	0.06236	5		0	
130.00	L-Lysine, Post-col Ninhydrin Der (%)	0227	8.8700	0.04000	8.0714	0.80596	0.06236	5		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0676	8.2400	0.30000				2		0	
130.05	L-Lysine, Pre-col AQC Der (%)	0027	8.4775	0.03900				2		0	
130.99	L-Lysine, Miscellaneous (%)	2115	8.2095	0.11700				1		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0619	0.58200	0.00400	0.69546	0.11358	0.01972	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0227	0.59500	0.01000	0.69546	0.11358	0.01972	5		0	

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			Value	Range	Rob Mean	Robust SD	R-bar	# Labs			
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0504	0.68000	0.02000	0.69546	0.11358	0.01972	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0870	0.77780	0.03560	0.69546	0.11358	0.01972	5		0	
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	0171	0.84250	0.02900	0.69546	0.11358	0.01972	5		0	
131.02	Methionine, PAO Post-col OPA Der (%)	0676	0.50000	0.04000				1		0	
131.99	Methionine, Miscellaneous (%)	2115	0.66850	0.00500				1		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0870	6.0754	0.04430	6.4466	0.31676	0.08266	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0619	6.3000	0.12000	6.4466	0.31676	0.08266	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0504	6.3400	0.02000	6.4466	0.31676	0.08266	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0227	6.6250	0.15000	6.4466	0.31676	0.08266	5		0	
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	0171	6.8925	0.07900	6.4466	0.31676	0.08266	5		0	
132.05	Phenylalanine, Pre-col AQC Der (%)	0676	6.2550	0.25000				1		0	
132.99	Phenylalanine, Miscellaneous (%)	2115	6.5615	0.00500				1		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0870	2.9676	0.06220	3.3431	0.26378	0.09564	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0504	3.1750	0.09000	3.3431	0.26378	0.09564	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0227	3.4600	0.08000	3.3431	0.26378	0.09564	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0619	3.5100	0.10000	3.3431	0.26378	0.09564	5		0	
133.00	Proline, Post-col Ninhydrin Der (%)	0171	3.6030	0.14600	3.3431	0.26378	0.09564	5		0	
133.05	Proline, Pre-col AQC Der (%)	0676	3.4250	0.07000				1		0	
133.99	Proline, Miscellaneous (%)	2115	1.9240	0.00000				1		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0619	4.3250	0.11000	4.4140	0.10988	0.07798	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0227	4.3350	0.07000	4.4140	0.10988	0.07798	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0870	4.4352	0.02390	4.4140	0.10988	0.07798	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0171	4.5610	0.10800	4.4140	0.10988	0.07798	4		0	
134.00	Serine, Post-col Ninhydrin Der (%)	0504	3.7900	0.40000	4.4140	0.10988	0.07798	4		1	
134.05	Serine, Pre-col AQC Der (%)	0676	4.1250	0.15000				1		0	
134.99	Serine, Miscellaneous (%)	2115	4.0810	0.02000				1		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0504	2.8900	0.02000	3.0410	0.10663	0.05544	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0870	3.0146	0.08420	3.0410	0.10663	0.05544	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0619	3.0300	0.08000	3.0410	0.10663	0.05544	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0227	3.0900	0.04000	3.0410	0.10663	0.05544	5		0	
135.00	Threonine, Post-col Ninhydrin Der (%)	0171	3.1805	0.05300	3.0410	0.10663	0.05544	5		0	
135.05	Threonine, Pre-col AQC Der (%)	0027	2.8695	0.10300				2		0	
135.05	Threonine, Pre-col AQC Der (%)	0676	2.9000	0.08000				2		0	
135.99	Threonine, Miscellaneous (%)	2115	2.9125	0.01900				1		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0870	1.0405	0.04380	1.3719	0.28127	0.02495	4		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0619	1.3250	0.01000	1.3719	0.28127	0.02495	4		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0171	1.3970	0.01600	1.3719	0.28127	0.02495	4		0	
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	0227	1.7250	0.03000	1.3719	0.28127	0.02495	4		0	
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	2114	1.1604	0.03520				1		0	
136.99	Tryptophan, Miscellaneous (%)	0504	1.2700	0.02000				1		0	
137.02	Tyrosine, Post-col OPA Der (%)	0870	1.7225	0.00490				1		0	
137.05	Tyrosine, Pre-col AQC Der (%)	0676	2.2000	0.02000				1		0	

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137.99	Tyrosine, Miscellaneous (%)	2115	0.74850	0.04300				2		0	
137.99	Tyrosine, Miscellaneous (%)	0504	2.1250	0.01000				2		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0171	7.2300	0.08200	7.8448	0.44059	0.05362	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0870	7.5339	0.00610	7.8448	0.44059	0.05362	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0619	8.0500	0.04000	7.8448	0.44059	0.05362	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0227	8.1950	0.01000	7.8448	0.44059	0.05362	5		0	
138.00	Valine, Post-col Ninhydrin Der (%)	0504	8.2150	0.13000	7.8448	0.44059	0.05362	5		0	
138.05	Valine, Pre-col AQC Der (%)	0676	7.7550	0.51000				1		0	
138.99	Valine, Miscellaneous (%)	2115	8.1065	0.07300				1		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0504	0.03000	0.00000				2		0	
139.00	Taurine, Post-col Ninhydrin Der (%)	0171	2.2345	0.01500				2		0	
139.99	Taurine, Miscellaneous (%)	2115	0.29000	0.02000				1		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0407	0.48105	0.00350				2		0	
400.01	Water Activity, Aqualab chilled mirror (Units)	0051	0.53500	0.00200				2		0	
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	2124	< 0.89					0		5	
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	2033	< 0.02					0		5	
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0		5	
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	2124	0.01500	0.01000				1		0	
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	2033	< 0.01					1		5	
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	0171	0.28000	0.00000				1		0	
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	0510	1.5600	0.02000				1		0	
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	0553	0.05535	0.01870				1		0	
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	0171	0.13500	0.01000				1		0	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	0553	0.04720	0.00020				2		0	
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	2033	0.07000	0.02000				2		0	
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	0171	< 0.05					0		5	
539.43	Nickel, ICP, Microwave (mg / kg (ppm))	2033	< 0.1					0		5	
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	0553	0.03705	0.01390				1		0	
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
716.99	Palmitic Acid (16:0), Miscellaneous (%) (w/w)	2124	0.09000	0.00000				1		0	
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (%) (w/w)	2124	0.01000	0.00000				1		0	
722.99	Stearic Acid (18:0), Miscellaneous (%) (w/w)	2124	0.05000	0.00000				1		0	
724.99	Oleic Acid (9c-18:1), Miscellaneous (%) (w/w)	2124	0.11500	0.01000				1		0	
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (%) (w/w)	2124	0.03000	0.00000				1		0	
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (%) (w/w)	2124	< 0.01					0		5	
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (%) (w/w)	2124	0.06000	0.00000				1		0	
772.99	Total Fatty Acids, Miscellaneous (%) (w/w)	2124	0.36000	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

Method Code	Analyte Name and Method (Units)	Lab Code	Lab Data		Method Values				AAFCO PT	Threshold	Flag
			Value	Range	Rob Mean	Robust SD	R-bar	# Labs	Z Score	%RSD	

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.