

Animal Feed Scheme
Cat Food, Dry
Sample # 201627
Method Summary Report
 (Precision Report Follows)

Methods Reported: 404
Labs Reporting: 212
Issue Date : 08/31/2016

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value - Robust Mean	AAFCO PT fp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
000.02	Urea, As protein, Colorimetric (%)	1	1	0.20000							
001.00	Loss on Drying, Vac 95°C 5 hr (%)	9	8	5.4836	0.52979	5.5049	0.55190	0.24391	10.03%	0.18561	3.09%
001.03	Loss on Drying, Low temp. methods (%)	5	5	5.8900	0.07525	5.9175	0.05008	0.02504	0.85%	0.04800	3.06%
001.05	Loss on Drying, LECO (%)	1	1	5.5500							
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	40	38	5.8392	0.48300	5.8534	0.30549	0.06195	5.22%	0.08065	3.07%
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	2	2	5.5650	0.19092						
001.99	Loss on Drying, Miscellaneous (%)	20	20	5.6981	0.45725	5.7486	0.38603	0.10790	6.72%	0.06564	3.07%
002.00	Protein, Crude (%)	8	8	33.357	0.58118	33.357	0.65906	0.29127	1.98%	0.22963	1.73%
002.01	Protein, Auto Kjel-Foss (%)	13	12	33.206	0.41033	33.217	0.43962	0.15863	1.32%	0.09496	1.74%
002.02	Protein, Semiauto Autoanalyzer (%)	3	3	33.394	0.40767	33.394	0.40767	0.23537	1.22%	0.13420	1.73%
002.04	Protein, Copper Catalyst (%)	7	6	32.673	1.5954	33.111	0.66670	0.34022	2.01%	0.14000	1.74%
002.05	Protein, Copper, Boric Acid (%)	31	31	33.256	0.33425	33.243	0.34569	0.07761	1.04%	0.17308	1.73%
002.06	Protein, Combustion Nitrogen Analyzer (%)	132	129	33.664	0.42686	33.640	0.35250	0.03880	1.05%	0.17685	1.72%
002.08	Protein, Cu/Ti (%)	3	3	33.228	0.15545	33.228	0.15545	0.08975	0.47%	0.16480	1.73%
002.10	Protein, Block dig/distillation (%)	1	1	33.665							
002.11	Protein, NIR (%)	10	10	31.591	2.6920	31.591	3.0528	1.2067	9.66%	0.14220	1.78%
002.99	Protein, Miscellaneous (%)	7	7	33.113	1.3796	33.456	0.63779	0.30133	1.91%	0.16286	1.73%
003.00	Fat, Eth Ext., Direct (%)	15	15	12.794	0.81220	12.619	0.22991	0.07420	1.82%	0.10247	2.73%
003.01	Fat, Ind Eth Ext (13th ed.), Indirect (%)	2	2	13.112	0.59871						
003.06	Fat, Pet Ether (%)	19	19	12.648	0.40201	12.584	0.21962	0.06298	1.75%	0.13738	2.73%
003.09	Fat, Soxtec, Eth Ext (%)	15	15	12.672	0.30336	12.635	0.21963	0.07089	1.74%	0.07631	2.73%
003.10	Fat, Soxtec, Pet Ether (%)	30	29	12.480	0.23681	12.468	0.22535	0.05231	1.81%	0.19846	2.74%
003.11	Fat, NIR (%)	10	10	14.240	2.4879	13.971	2.0387	0.80586	14.59%	0.03920	2.68%
003.12	Fat, Hexane Ext (%)	3	3	12.532	0.08386	12.580	0.00707	0.00500	0.06%	0.25000	2.73%
003.13	Fat, Soxtec, Hexane Ext. (%)	8	7	12.544	0.10163	12.544	0.11525	0.05445	0.92%	0.11714	2.73%
003.14	Fat, Ankom (%)	38	37	12.490	0.29365	12.459	0.18426	0.03787	1.48%	0.16765	2.74%
003.99	Fat, Miscellaneous (%)	5	5	14.592	1.2746	14.592	1.2746	0.57002	8.73%	0.04400	2.62%
004.00	Fiber, Crude, Asbestos Free (%)	21	20	5.7658	1.2234	5.5807	0.62825	0.17560	11.26%	0.18598	3.09%
004.01	Fiber, Sing Filt (%)	2	2	5.8350	0.09192						
004.03	Fiber, Fritted Glass (%)	5	5	5.6122	1.3494	5.6122	1.3494	0.60345	24.04%	0.27438	3.09%

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004.06	Fiber, Fibertec (%)	23	23	5.8336	1.1693	5.7436	0.41043	0.10698	7.15%	0.16568	3.07%
004.07	Fiber, ANKOM (%)	59	56	5.4374	1.3834	5.2977	1.1929	0.19927	22.52%	0.24239	3.11%
004.11	Fiber, NIR (%)	8	7	4.2356	1.2918	4.1893	1.3579	0.64156	32.41%	0.04627	3.22%
004.99	Fiber, Miscellaneous (%)	3	3	4.9550	0.29879	4.7800				0.23667	3.16%
005.00	Ash, 2h @ 600°C (%)	100	96	9.8753	0.12383	9.8773	0.11530	0.01471	1.17%	0.06572	2.83%
005.05	Ash, 3h @ 550°C (%)	26	25	9.9286	0.09925	9.9259	0.09361	0.02340	0.94%	0.07467	2.83%
005.11	Ash, NIR (%)	8	8	9.3445	1.7043	9.3820	1.8481	0.81676	19.70%	0.19280	2.86%
005.99	Ash, Miscellaneous (%)	13	13	9.9875	0.16485	9.9875	0.15829	0.05488	1.58%	0.05252	2.83%
006.01	Total sugars, Mod. Fehling Soln (%)	2	2	0.44500	0.36062						
006.05	Total sugars, TSI, Lane-Eunon (12th) (%)	1	1	1.5800							
006.99	Total sugars, Miscellaneous (%)	7	5	0.68850	0.29979	0.56063	0.10403	0.05816	18.56%	0.08540	4.36%
008.02	Fiber, Acid Detergent (%)	15	14	7.9761	1.4428	8.0025	1.2344	0.41238	15.43%	0.35219	2.92%
008.05	Fiber, Acid Detergent-Hach (%)	1	1	8.4500							
008.08	Fiber, Acid Detergent, ANKOM (%)	41	41	7.6624	1.9171	7.5916	1.9729	0.38514	25.99%	0.45464	2.95%
008.99	Fiber, Acid Detergent Miscellaneous (%)	5	5	8.2910	1.8228	7.5967	0.08963	0.05175	1.18%	0.75000	2.95%
009.04	Fiber, Neutral Det-No ENZ Pretreat (%)	1	1	20.210							
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	7	7	16.285	2.5609	16.285	2.9040	1.3720	17.83%	0.45769	2.48%
009.09	Fiber, Neutral Detergent, ANKOM (%)	32	31	18.545	4.2209	18.340	4.2949	0.96424	23.42%	0.54587	2.34%
009.99	Fiber, Neutral Det Miscellaneous (%)	3	3	18.037	3.3467	18.037	3.3467	1.9322	18.55%	0.21333	2.35%
010.03	Moisture, Karl-Fischer (%)	4	4	5.9263	0.51896	5.9263	0.51896	0.25948	8.76%	0.12750	3.06%
010.11	Moisture, NIR (%)	8	8	5.7408	0.84808	5.7408	0.96173	0.42503	16.75%	0.07485	3.07%
010.99	Moisture, Miscellaneous (%)	21	20	5.8393	0.28896	5.8316	0.31131	0.08701	5.34%	0.09050	3.07%
011.01	Loss on Drying, 135°C 2hr (%)	80	77	6.2925	0.54277	6.3227	0.37479	0.05339	5.93%	0.10394	3.03%
011.02	Loss on Drying, 130°C for 2 hours (%)	4	4	6.0948	0.46826	6.0948	0.46826	0.23413	7.68%	0.08950	3.05%
011.03	Loss on drying, 130°C, 1 hour, Flour (%)	1	1	5.6450							
011.99	Loss on Drying, High Temp. Methods Miscellaneous	3	3	6.6200	0.16643	6.6200	0.16643	0.09609	2.51%	0.15333	3.01%
012.00	Starch, Polarimetric (Ewers) (%)	10	9	23.122	0.83679	23.154	0.87454	0.36439	3.78%	0.25667	2.08%
012.01	Starch, Megazyme (%)	9	9	22.832	1.3074	22.850	0.56649	0.23604	2.48%	0.55178	2.09%
012.02	Starch, Colorimetric (GOP) (%)	1	1	26.855							
012.03	Starch, Enzymatic (%)	6	6	23.040	3.3260	22.610	2.7702	1.4136	12.25%	0.76773	2.10%
012.04	Starch, YSI Analyzer (%)	4	4	21.615	0.83189	21.387	0.85161	0.49168	3.98%	0.44500	2.16%
012.11	Starch, NIR (%)	3	3	21.769	2.0809	21.769	2.0809	1.2014	9.56%	0.33500	2.14%
012.99	Starch, Miscellaneous (%)	1	1	32.290							
013.00	Fat, Acid hydrolysis (%)	27	26	15.013	0.56541	15.031	0.40294	0.09878	2.68%	0.13601	2.58%
013.02	Fat, Mojonner, Bak Ext (%)	30	29	15.322	0.42038	15.349	0.36599	0.08495	2.38%	0.17771	2.55%
013.08	Fat, Roese-Gottlieb Modified (%)	1	1	13.710							
013.10	Fat, Soxtec-Acid Hydrolysis (%)	11	11	13.979	1.1450	14.116	0.93771	0.35341	6.64%	0.09804	2.66%
013.12	Fat, NIR- Acid Hydrolysis (%)	2	2	13.948	1.4390						

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013.13	Fat, Ankom- Acid Hydrolysis (%)	10	10	14.830	1.3166	15.070	0.80891	0.31975	5.37%	0.23126	2.58%
014.99	Fiber, total dietary TDF, Miscellaneous (%)	1	1	12.100							
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	3	3	154.42	17.504	154.42	17.504	10.106	11.34%	6.0670	7.49%
015.42	Aluminum, ICP, Open vessel (mg / kg (ppm))	1	1	173.50							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	6	6	164.79	29.116	164.79	33.017	16.849	20.04%	7.4317	7.42%
015.53	Aluminum, ICP-MS, Microwave (mg / kg (ppm))	1	1	203.00							
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	4	4	5.3900	1.1563	5.3900	1.1563	0.57815	21.45%	0.31500	12.41%
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	4	4	5.6165	1.2673	4.9887	0.21001	0.12125	4.21%	0.15083	12.56%
017.43	Boron, ICP, Microwave (mg / kg (ppm))	5	4	5.4263	0.74538	5.4263	0.74538	0.37269	13.74%	0.47250	12.40%
019.00	Calcium, Ox-Mn04 Vol. (%)	16	15	2.4305	0.11654	2.4187	0.07235	0.02335	2.99%	0.03351	3.50%
019.02	Calcium, Hach Method (%)	1	1	2.3935							
019.03	Calcium, Semiauto (Autoanalyzer) (%)	1	1	2.4885							
019.08	Calcium, EDTA (%)	8	8	2.2092	0.39193	2.3268	0.09084	0.04015	3.90%	0.04234	3.52%
019.09	Calcium, Ion-selective electrode (%)	1	1	2.6260							
019.31	Calcium, AAS, Dry ash (%)	21	21	2.3648	0.07902	2.3785	0.04986	0.01360	2.10%	0.07991	3.51%
019.32	Calcium, AAS, Open vessel (%)	4	4	2.5305	0.15337	2.5305	0.15337	0.07668	6.06%	0.05400	3.48%
019.41	Calcium, ICP, Dry ash (%)	31	30	2.4737	0.13060	2.4693	0.09676	0.02208	3.92%	0.03578	3.49%
019.42	Calcium, ICP, Open vessel (%)	20	19	2.4987	0.17323	2.4949	0.18812	0.05395	7.54%	0.05449	3.49%
019.43	Calcium, ICP, Microwave (%)	20	18	2.4214	0.08056	2.4215	0.08849	0.02607	3.65%	0.02634	3.50%
019.44	Calcium, ICP, Dry ash (%)	6	6	2.3466	0.18426	2.3466	0.20895	0.10663	8.90%	0.08583	3.52%
019.52	Calcium, ICP-MS, Open vessel (%)	1	1	2.4029							
019.53	Calcium, ICP-MS, Microwave (%)	2	2	2.3775	0.01061						
019.99	Calcium, Miscellaneous (%)	4	4	1.7638	1.0976	1.7638	1.0976	0.54882	62.23%	0.02250	3.67%
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	2	2	2.1100	0.08485						
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	3	3	1.5878	0.36002	1.5878	0.36002	0.20786	22.67%	0.08100	14.92%
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	2	2	1.3178	0.37434						
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	5	5	1.7750	0.31496	1.8438	0.31742	0.15871	17.22%	0.12600	14.59%
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.94000							
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	3	3	1.4635	0.80588	1.4635	0.80588	0.46527	55.06%	0.14607	15.11%
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	13	13	20.917	2.6958	21.174	2.1325	0.73933	10.07%	1.1238	10.10%
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	4	4	26.279	5.8886	26.872	7.0642	4.0785	26.29%	0.80325	9.75%
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	23	23	20.456	3.4066	20.771	2.2083	0.57557	10.63%	1.1408	10.13%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	19	19	22.641	2.2361	22.628	2.3814	0.68290	10.52%	0.72521	10.00%
022.43	Copper, ICP, Microwave (mg / kg (ppm))	17	16	21.372	4.4934	20.964	1.8290	0.57156	8.72%	0.56606	10.12%
022.44	Copper, ICP, Dry ash (mg / kg (ppm))	6	5	20.714	1.2800	20.714	1.2800	0.71557	6.18%	0.12380	10.14%
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	20.500							
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	4	4	21.500	1.3608	21.500	1.3608	0.68038	6.33%	0.65000	10.08%
022.99	Copper, Miscellaneous (mg / kg (ppm))	2	2	21.250	0.35355						

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024.99	Iodine, Miscellaneous (mg / kg (ppm))	2	2	2.5288	0.08662						
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	13	12	168.36	22.159	172.20	13.583	4.9015	7.89%	2.9382	7.37%
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	3	3	197.73	35.871	197.73	35.871	20.710	18.14%	18.133	7.22%
025.33	Iron, AAS, Microwave (mg / kg (ppm))	1	1	224.05							
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	29	29	165.38	17.355	167.98	12.347	2.8659	7.35%	4.7300	7.40%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	17	174.20	20.920	172.20	15.578	4.7228	9.05%	7.8515	7.37%
025.43	Iron, ICP, Microwave (mg / kg (ppm))	19	18	171.80	24.592	171.24	12.944	3.8136	7.56%	3.9483	7.38%
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	2	2	181.22	46.984						
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	1	1	190.50							
025.99	Iron, Miscellaneous (mg / kg (ppm))	3	3	169.30	2.6172	169.30	2.6172	1.5110	1.55%	6.0860	7.39%
027.31	Magnesium, AAS, Dry ash (%)	15	14	0.11530	0.01022	0.11462	0.00783	0.00262	6.83%	0.00378	5.54%
027.32	Magnesium, AAS, Open vessel (%)	4	4	0.11785	0.00255	0.11880	0.00208	0.00120	1.75%	0.00255	5.51%
027.33	Magnesium, AAS, Microwave (%)	1	1	0.11025							
027.41	Magnesium, ICP, Dry ash (%)	26	25	0.11580	0.01018	0.11445	0.00751	0.00188	6.56%	0.00290	5.54%
027.42	Magnesium, ICP, Open vessel (%)	20	19	0.11889	0.00837	0.11820	0.00756	0.00217	6.40%	0.00325	5.52%
027.43	Magnesium, ICP, Microwave (%)	18	17	0.11429	0.00836	0.11446	0.00834	0.00253	7.29%	0.00388	5.54%
027.44	Magnesium, ICP, Dry ash (%)	7	7	0.11132	0.00798	0.11142	0.00883	0.00417	7.93%	0.00367	5.56%
027.52	Magnesium, ICP-MS, Open vessel (%)	1	1	0.12245							
027.53	Magnesium, ICP-MS, Microwave (%)	2	2	0.11675	0.00460						
027.99	Magnesium, Miscellaneous (%)	3	3	0.11333	0.01756	0.11333	0.01756	0.01014	15.49%	0.00667	5.55%
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	13	13	21.753	2.4902	21.976	2.2443	0.77807	10.21%	0.84985	10.05%
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	4	4	40.105	18.378	40.105	18.378	9.1890	45.82%	0.89450	9.18%
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	1	1	23.325							
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	25	24	22.935	3.1906	22.818	1.5574	0.39737	6.83%	0.71980	9.99%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	20	20	23.968	2.1624	23.757	1.6135	0.45099	6.79%	1.1219	9.93%
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	17	16	22.709	3.6195	22.801	3.2504	1.0157	14.26%	0.80625	9.99%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	6	6	22.117	1.6761	22.286	1.4929	0.76183	6.70%	0.92083	10.03%
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	24.000							
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	3	3	15.584	13.499	15.584	13.499	7.7938	86.62%	0.56667	10.58%
028.99	Manganese, Miscellaneous (mg / kg (ppm))	2	2	24.250	1.7678						
031.01	Phosphorus, Photometric (%)	44	43	1.4529	0.08537	1.4564	0.06556	0.01250	4.50%	0.02440	3.78%
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	3	3	1.5067	0.01258	1.5067	0.01258	0.00726	0.84%	0.00667	3.76%
031.03	Phosphorus, Autoanalyzer (%)	3	3	1.5304	0.01935	1.5304	0.01935	0.01117	1.26%	0.04573	3.75%
031.06	Phosphorus, Hach Method (%)	1	1	1.3875							
031.41	Phosphorus, ICP, Dry ash (%)	30	30	1.5177	0.10716	1.5059	0.08262	0.01885	5.49%	0.02820	3.76%
031.42	Phosphorus, ICP, Open vessel (%)	20	20	1.5027	0.10571	1.5022	0.11891	0.03324	7.92%	0.04390	3.76%
031.43	Phosphorus, ICP, Microwave (%)	17	17	1.5162	0.06335	1.5152	0.06542	0.01983	4.32%	0.02707	3.76%
031.44	Phosphorus, ICP, Dry ash (%)	6	6	1.3994	0.09239	1.3994	0.10477	0.05347	7.49%	0.04117	3.80%

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031.52	Phosphorus, ICP-MS, Open vessel (%)	1	1	1.5286							
031.53	Phosphorus, ICP-MS, Microwave (%)	3	3	1.5517	0.08949	1.5517	0.08949	0.05167	5.77%	0.03667	3.74%
031.99	Phosphorus, Miscellaneous (%)	5	5	1.2600	0.34607	1.2600	0.34607	0.15477	27.47%	0.03600	3.86%
032.02	Potassium, Flame Emission (%)	3	3	0.77080	0.03544	0.77080	0.03544	0.02046	4.60%	0.02093	4.16%
032.31	Potassium, AAS, Dry ash (%)	17	16	0.76104	0.07288	0.76443	0.07488	0.02340	9.80%	0.01929	4.16%
032.32	Potassium, AAS, Open vessel (%)	3	3	0.78000	0.02291	0.78000	0.02291	0.01323	2.94%	0.01333	4.15%
032.41	Potassium, ICP, Dry ash (%)	27	27	0.77661	0.06610	0.76906	0.04624	0.01112	6.01%	0.01635	4.16%
032.42	Potassium, ICP, Open vessel (%)	21	20	0.81300	0.05086	0.80904	0.04656	0.01301	5.75%	0.01231	4.13%
032.43	Potassium, ICP, Microwave (%)	17	16	0.79781	0.04339	0.79753	0.04860	0.01519	6.09%	0.01288	4.14%
032.44	Potassium, ICP, Dry ash (%)	6	6	0.75709	0.08043	0.76072	0.08263	0.04217	10.86%	0.02145	4.17%
032.52	Potassium, ICP-MS, Open vessel (%)	1	1	0.81065							
032.53	Potassium, ICP-MS, Microwave (%)	2	2	0.78475	0.01167						
032.99	Potassium, Miscellaneous (%)	3	3	0.66500	0.16256	0.66500	0.16256	0.09385	24.44%	0.01000	4.25%
033.00	Salt as chloride, Sol Cl (%)	18	18	0.76271	0.13019	0.77303	0.11376	0.03352	14.72%	0.02023	4.16%
033.01	Salt as chloride, Poten Cl (%)	24	24	0.85490	0.03348	0.85570	0.02915	0.00744	3.41%	0.00764	4.09%
033.03	Salt as chloride, Quantab (%)	3	3	0.74383	0.05746	0.75825	0.07319	0.05175	9.65%	0.01900	4.17%
033.05	Salt as chloride, Ion Sel Electrode (%)	2	2	0.81500	0.01414						
033.99	Salt, Miscellaneous (%)	5	5	0.94380	0.25752	0.94380	0.25752	0.11517	27.29%	0.02000	4.03%
034.01	Selenium, Fluor (mg / kg (ppm))	1	1	0.62700							
034.04	Selenium, AA, Hydride (mg / kg (ppm))	4	4	0.53838	0.07759	0.53838	0.07759	0.03880	14.41%	0.02775	17.56%
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	1	1	0.83500							
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	1	1	1.8000							
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	3	3	1.3245	1.5426	1.3245	1.5426	0.89060	116.46%	0.02793	15.33%
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	4	4	0.65088	0.06965	0.65088	0.06965	0.03483	10.70%	0.00725	17.06%
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	6	6	0.79535	0.19294	0.79535	0.21879	0.11165	27.51%	0.04357	16.56%
034.99	Selenium, Miscellaneous (mg / kg (ppm))	5	5	0.58450	0.01802	0.58450	0.01802	0.00806	3.08%	0.03540	17.34%
035.01	Sodium, Ion-selective electrode (%)	4	4	0.52263	0.05244	0.52263	0.05244	0.02622	10.03%	0.00475	4.41%
035.05	Sodium, Flame Emission (%)	4	4	0.49646	0.02104	0.49195	0.02327	0.01344	4.73%	0.00613	4.45%
035.31	Sodium, AAS, Dry ash (%)	17	16	0.49836	0.04554	0.49880	0.04250	0.01328	8.52%	0.01391	4.44%
035.32	Sodium, AAS, Open vessel (%)	3	3	0.46833	0.02517	0.46833	0.02517	0.01453	5.37%	0.01667	4.48%
035.41	Sodium, ICP, Dry ash (%)	34	34	0.48976	0.05680	0.49381	0.03239	0.00694	6.56%	0.01085	4.45%
035.42	Sodium, ICP, Open vessel (%)	18	18	0.50024	0.04022	0.50024	0.04561	0.01344	9.12%	0.01099	4.44%
035.43	Sodium, ICP, Microwave (%)	16	15	0.48857	0.02876	0.48873	0.03081	0.00994	6.30%	0.00873	4.45%
035.52	Sodium, ICP-MS, Open vessel (%)	1	1	0.51830							
035.53	Sodium, ICP-MS, Microwave (%)	2	2	0.51350	0.03323						
035.99	Sodium, Miscellaneous (%)	4	4	0.38500	0.13172	0.38500	0.13172	0.06586	34.21%	0.01000	4.62%
036.00	Sulfur, Gravimetric (%)	1	1	0.63000							
036.04	Sulfur, LECO (%)	3	3	0.70000	0.03279	0.70000	0.03279	0.01893	4.68%	0.03333	4.22%

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036.42	Sulfur, ICP, Open vessel (%)	21	20	0.67658	0.05061	0.67442	0.05264	0.01471	7.81%	0.01406	4.24%
036.43	Sulfur, ICP, Microwave (%)	9	9	0.66699	0.06800	0.65970	0.05454	0.02272	8.27%	0.02360	4.26%
036.99	Sulfur, Miscellaneous (%)	2	2	0.69250	0.05303						
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	18	17	169.00	13.641	169.05	12.148	3.6830	7.19%	3.5563	7.39%
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	3	3	181.06	9.2562	181.06	9.2562	5.3440	5.11%	4.5590	7.32%
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	1	1	180.00							
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	27	27	169.86	12.351	169.67	9.7516	2.3459	5.75%	5.6514	7.39%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	22	20	173.40	13.284	173.41	15.038	4.2034	8.67%	4.0554	7.36%
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	22	166.24	17.837	167.07	11.948	3.1840	7.15%	3.8875	7.40%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	5	5	167.11	12.791	167.11	12.791	5.7203	7.65%	3.4566	7.40%
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	2	2	167.33	5.4164						
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	3	3	180.17	22.585	180.17	22.585	13.039	12.54%	6.3333	7.32%
037.99	Zinc, Miscellaneous (mg / kg (ppm))	3	3	173.67	13.787	173.67	13.787	7.9600	7.94%	2.6667	7.36%
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	3	3	0.77467	0.17536	0.77467	0.17536	0.10124	22.64%	0.10533	16.62%
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	3	3	0.73522	0.07000	0.73522	0.07000	0.04042	9.52%	0.05543	16.75%
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	5	5	0.67511	0.09666	0.67511	0.09666	0.04323	14.32%	0.05030	16.97%
038.52	Molybdenum, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.76000							
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	4	4	0.66984	0.10440	0.66984	0.10440	0.05220	15.59%	0.03063	16.99%
040.42	Barium, ICP, Open vessel (mg / kg (ppm))	1	1	4.6450							
040.52	Barium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	4.2500							
040.53	Barium, ICP-MS, Microwave (mg / kg (ppm))	1	1	4.4537							
041.52	Vanadium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.95500							
041.53	Vanadium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.27600							
042.00	Chloride, Titrimetric (%)	4	4	0.49988	0.02672	0.51150	0.00212	0.00150	0.41%	0.00175	4.42%
042.02	Chloride, Ion Chromatography (%)	1	1	0.47500							
101.01	Choline Chloride, Chem (mg / kg (ppm))	2	2	2,095.0	947.52						
102.01	Niacin, Microbiological (mg / kg (ppm))	2	2	285.75	13.081						
102.02	Niacin, LC (mg / kg (ppm))	2	2	123.20	136.37						
102.99	Niacin, Miscellaneous (mg / kg (ppm))	1	1	154.50							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	2	2	21.375	1.2374						
103.02	Pantothenic Acid, LC (mg / kg (ppm))	4	4	30.210	6.9821	31.415	8.0257	4.6336	25.55%	1.0500	9.52%
103.99	Pantothenic Acid, Miscellaneous (mg / kg (ppm))	1	1	7.3519							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	1	1	15.950							
104.02	Riboflavin, Microbiological, Turbidity (mg / kg (ppm))	2	2	23.400	1.6971						
104.03	Riboflavin, LC (mg / kg (ppm))	4	4	15.570	3.0888	15.570	3.0888	1.5444	19.84%	1.1250	10.58%
105.00	Thiamine, LC (mg / kg (ppm))	6	6	38.959	5.8984	38.959	6.6888	3.4134	17.17%	1.4354	9.22%
105.01	Thiamine, Fluorometer (mg / kg (ppm))	1	1	38.750							
105.99	Thiamine, Miscellaneous (mg / kg (ppm))	2	2	30.925	2.2981						

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106.01	Vitamin A, UV (KU / kg)	1	1	19.200							
106.02	Vitamin A, LC (KU / kg)	21	20	15.493	9.5061	13.957	5.0715	1.4175	36.34%	1.3947	
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	3	3	102.00	3.9686	102.00	3.9686	2.2913	3.89%	6.0000	22.00%
107.99	Vitamin B12, Miscellaneous (µg / kg (ppb))	1	1	56.800							
108.01	Vitamin D3, LC, AOAC (KU / kg)	1	1	11.830							
108.02	Vitamin D3, LC (KU / kg)	4	4	536.56	1,059.0	7.0850	6.4904	3.7472	91.61%	42.723	
108.99	Vitamin D3, Miscellaneous (KU / kg)	4	4	2.2075	0.44681	2.3967	0.29113	0.16809	12.15%	0.30500	
109.02	Vitamin E, LC (IU/kg)	25	25	175.43	68.474	169.74	37.526	9.3816	22.11%	8.4545	
109.99	Vitamin E, Miscellaneous (IU/kg)	1	1	166.00							
112.00	Pyridoxine, Vitamin B6 (µg / g)	3	3	16.355	1.7306	16.355	1.7306	0.99914	10.58%	1.1833	
112.01	Pyridoxine, LC (µg / g)	2	2	17.623	0.88742						
112.99	Pyridoxine, Miscellaneous (µg / g)	2	2	12.740	10.833						
113.01	Folic Acid, Micro (mg / kg (ppm))	3	3	3.3983	0.97049	3.3983	0.97049	0.56031	28.56%	0.24333	13.31%
113.02	Folic acid, LC (mg / kg (ppm))	1	1	3.3400							
113.99	Folic acid, Miscellaneous (mg / kg (ppm))	1	1	2.2526							
114.01	Biotin, Microbiological (mg / kg (ppm))	3	3	0.56983	0.04092	0.56983	0.04092	0.02362	7.18%	0.03767	17.41%
114.99	Biotin, Miscellaneous (mg / kg (ppm))	2	2	0.68680	0.02234						
118.01	Peroxide value, Titrimetric Method (meq/kg)	1	1	11.970							
120.00	Alanine, Post-col Ninhydrin Der (%)	17	16	2.0799	0.05425	2.0817	0.04506	0.01408	2.16%	0.01608	3.58%
120.01	Alanine, Pre-col OPA Der (%)	3	3	2.1217	0.03055	2.1217	0.03055	0.01764	1.44%	0.02333	3.57%
120.02	Alanine, Post-col OPA Der (%)	2	2	2.1398	0.22592						
120.05	Alanine, Pre-col AQC Der (%)	3	3	2.0573	0.10180	2.0573	0.10180	0.05877	4.95%	0.03000	3.59%
120.99	Alanine, Miscellaneous (%)	1	1	2.0600							
121.00	Arginine, Post-col Ninhydrin Der (%)	17	16	2.1410	0.07065	2.1419	0.07814	0.02442	3.65%	0.01635	3.57%
121.01	Arginine, Pre-col OPA Der (%)	3	3	2.3250	0.10000	2.3250	0.10000	0.05774	4.30%	0.01667	3.52%
121.02	Arginine, Post-col OPA Der (%)	2	2	2.0648	0.09864						
121.05	Arginine, Pre-col AQC Der (%)	3	3	2.2773	0.30706	2.2773	0.30706	0.17728	13.48%	0.03867	3.53%
121.99	Arginine, Miscellaneous (%)	1	1	2.1150							
122.00	Aspartic, Post-col Ninhydrin Der (%)	17	17	2.7378	0.31291	2.7205	0.08560	0.02595	3.15%	0.02786	3.44%
122.01	Aspartic, Pre-col OPA Der (%)	3	3	2.7633	0.03253	2.7633	0.03253	0.01878	1.18%	0.01333	3.43%
122.02	Aspartic, Post-col OPA Der (%)	2	2	2.7075	0.23688						
122.05	Aspartic, Pre-col AQC Der (%)	3	3	2.7498	0.20193	2.7498	0.20193	0.11658	7.34%	0.02500	3.43%
122.99	Aspartic, Miscellaneous (%)	1	1	2.4300							
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin Der (%)	17	16	0.34184	0.04006	0.34903	0.02070	0.00647	5.93%	0.00806	4.69%
124.01	Cysteine/Cystine, PAO Pre-col OPA Der (%)	3	3	0.35217	0.04333	0.35217	0.04333	0.02502	12.30%	0.01567	4.68%
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	2	2	0.40025	0.00035						
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	3	3	0.37057	0.02323	0.37860	0.02630	0.01860	6.95%	0.00567	4.63%
124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	0.14000							

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125.00	Glutamic, Post-col Ninhydrin Der (%)	17	17	4.6451	0.21313	4.6137	0.13797	0.04183	2.99%	0.04553	3.18%
125.01	Glutamic, Pre-col OPA Der (%)	3	3	4.5700	0.09341	4.5700	0.09341	0.05393	2.04%	0.02000	3.18%
125.02	Glutamic, Post-col OPA Der (%)	2	2	4.5363	0.27754						
125.05	Glutamic, Pre-col AQC Der (%)	3	3	4.6615	0.05732	4.6615	0.05732	0.03309	1.23%	0.02633	3.17%
125.99	Glutamic, Miscellaneous (%)	1	1	4.5600							
126.00	Glycine, Post-col Ninhydrin Der (%)	17	17	2.9546	0.12288	2.9440	0.07313	0.02217	2.48%	0.02466	3.40%
126.01	Glycine, Pre-col OPA Der (%)	3	3	2.8983	0.07024	2.8983	0.07024	0.04055	2.42%	0.03000	3.41%
126.02	Glycine, Post-col OPA Der (%)	2	2	2.8308	0.28390						
126.05	Glycine, Pre-col AQC Der (%)	3	3	2.9587	0.16100	2.9587	0.16100	0.09295	5.44%	0.01800	3.40%
126.99	Glycine, Miscellaneous (%)	1	1	3.2350							
127.00	Histidine, Post-col Ninhydrin Der (%)	17	15	0.73475	0.05659	0.73475	0.06417	0.02071	8.73%	0.01386	4.19%
127.01	Histidine, Pre-col OPA Der (%)	3	3	0.64167	0.06803	0.64167	0.06803	0.03928	10.60%	0.01533	4.28%
127.02	Histidine, Post-col OPA Der (%)	2	2	0.63725	0.01732						
127.05	Histidine, Pre-col AQC Der (%)	3	3	0.69717	0.06276	0.69717	0.06276	0.03624	9.00%	0.01367	4.22%
127.99	Histidine, Miscellaneous (%)	1	1	0.77000							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	17	16	1.2300	0.08152	1.2403	0.06257	0.01955	5.04%	0.02334	3.87%
128.01	Isoleucine, Pre-col OPA Der (%)	3	3	1.3117	0.04163	1.3117	0.04163	0.02404	3.17%	0.01000	3.84%
128.02	Isoleucine, Post-col OPA Der (%)	2	2	1.1338	0.15380						
128.05	Isoleucine, Pre-col AQC Der (%)	3	3	1.2763	0.10757	1.2763	0.10757	0.06210	8.43%	0.03067	3.86%
128.99	Isoleucine, Miscellaneous (%)	1	1	1.1850							
129.00	Leucine, Post-col Ninhydrin Der (%)	17	16	2.2634	0.06078	2.2722	0.04495	0.01405	1.98%	0.02741	3.53%
129.01	Leucine, Pre-col OPA Der (%)	3	3	2.2867	0.02021	2.2867	0.02021	0.01167	0.88%	0.01333	3.53%
129.02	Leucine, Post-col OPA Der (%)	2	2	2.1968	0.12975						
129.05	Leucine, Pre-col AQC Der (%)	3	3	2.2585	0.14967	2.2585	0.14967	0.08641	6.63%	0.03833	3.54%
129.99	Leucine, Miscellaneous (%)	1	1	2.3700							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	17	16	1.9429	0.33605	2.0006	0.07290	0.02278	3.64%	0.01753	3.60%
130.01	L-Lysine, Pre-col OPA Der (%)	3	3	1.8933	0.05795	1.8933	0.05795	0.03346	3.06%	0.02000	3.63%
130.02	L-Lysine, Post-col OPA Der (%)	2	2	1.9960	0.17819						
130.05	L-Lysine, Pre-col AQC Der (%)	4	4	2.0405	0.15798	1.9780	0.11832	0.06831	5.98%	0.02100	3.61%
130.99	L-Lysine, Miscellaneous (%)	2	2	1.7075	0.42780						
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	17	17	0.63918	0.05213	0.64098	0.03845	0.01166	6.00%	0.02157	4.28%
131.01	Methionine, PAO Pre-col OPA Der (%)	3	3	0.67250	0.08229	0.67250	0.08229	0.04751	12.24%	0.01500	4.25%
131.02	Methionine, PAO Post-col OPA Der (%)	2	2	0.59000	0.04243						
131.05	Methionine, PAO Pre-col AQC Der (%)	3	3	0.66957	0.06091	0.66957	0.06091	0.03517	9.10%	0.00867	4.25%
131.99	Methionine, Miscellaneous (%)	1	1	0.63500							
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	17	17	1.3220	0.04593	1.3254	0.04461	0.01352	3.37%	0.02534	3.83%
132.01	Phenylalanine, Pre-col OPA Der (%)	3	3	1.3350	0.03606	1.3350	0.03606	0.02082	2.70%	0.01000	3.83%
132.02	Phenylalanine, Post-col OPA Der (%)	2	2	1.3268	0.06824						

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132.05	Phenylalanine, Pre-col AQC Der (%)	3	3	1.3015	0.09784	1.3015	0.09784	0.05649	7.52%	0.02900	3.84%
132.99	Phenylalanine, Miscellaneous (%)	1	1	1.2850							
133.00	Proline, Post-col Ninhydrin Der (%)	17	17	2.1598	0.11095	2.1601	0.12031	0.03647	5.57%	0.04486	3.56%
133.04	Proline, Pre-col FMOC Der (%)	1	1	2.3050							
133.05	Proline, Pre-col AQC Der (%)	3	3	2.1488	0.11499	2.1488	0.11499	0.06639	5.35%	0.03767	3.56%
133.99	Proline, Miscellaneous (%)	4	4	2.3913	0.29601	2.3913	0.29601	0.14801	12.38%	0.04750	3.51%
134.00	Serine, Post-col Ninhydrin Der (%)	17	17	1.3069	0.08156	1.3025	0.05004	0.01517	3.84%	0.02309	3.84%
134.01	Serine, Pre-col OPA Der (%)	3	3	1.2733	0.05620	1.2733	0.05620	0.03245	4.41%	0.02000	3.86%
134.02	Serine, Post-col OPA Der (%)	2	2	1.2593	0.02934						
134.05	Serine, Pre-col AQC Der (%)	3	3	1.2902	0.07098	1.2902	0.07098	0.04098	5.50%	0.03033	3.85%
134.99	Serine, Miscellaneous (%)	1	1	1.4200							
135.00	Threonine, Post-col Ninhydrin Der (%)	17	16	1.2492	0.04127	1.2492	0.04680	0.01463	3.75%	0.01715	3.87%
135.01	Threonine, Pre-col OPA Der (%)	3	3	1.2650	0.03000	1.2650	0.03000	0.01732	2.37%	0.01000	3.86%
135.02	Threonine, Post-col OPA Der (%)	2	2	1.2158	0.07177						
135.05	Threonine, Pre-col AQC Der (%)	3	3	1.2443	0.08931	1.2443	0.08931	0.05156	7.18%	0.02600	3.87%
135.99	Threonine, Miscellaneous (%)	1	1	1.2350							
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	6	6	0.33322	0.03817	0.33322	0.04329	0.02209	12.99%	0.01127	4.72%
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	4	4	0.30213	0.03689	0.30213	0.03689	0.01845	12.21%	0.00275	4.79%
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	2	2	0.27900	0.05515						
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	2	2	0.32825	0.01167						
136.99	Tryptophan, Miscellaneous (%)	4	4	0.28825	0.03799	0.28825	0.03799	0.01900	13.18%	0.01450	4.82%
137.00	Tyrosine, Post-col Ninhydrin Der (%)	13	12	0.92135	0.08257	0.92765	0.07800	0.02815	8.41%	0.02206	4.05%
137.01	Tyrosine, Pre-col OPA Der (%)	3	3	1.0350	0.03041	1.0350	0.03041	0.01756	2.94%	0.01000	3.98%
137.02	Tyrosine, Post-col OPA Der (%)	2	2	0.91175	0.34896						
137.05	Tyrosine, Pre-col AQC Der (%)	3	3	1.0258	0.07965	1.0258	0.07965	0.04598	7.76%	0.01367	3.98%
137.99	Tyrosine, Miscellaneous (%)	1	1	0.95500							
138.00	Valine, Post-col Ninhydrin Der (%)	17	17	1.4662	0.14127	1.4817	0.11331	0.03435	7.65%	0.02618	3.77%
138.01	Valine, Pre-col OPA Der (%)	3	3	1.5867	0.07974	1.5867	0.07974	0.04604	5.03%	0.00667	3.73%
138.02	Valine, Post-col OPA Der (%)	2	2	1.3807	0.26255						
138.05	Valine, Pre-col AQC Der (%)	3	3	1.5975	0.13439	1.5975	0.13439	0.07759	8.41%	0.02833	3.73%
138.99	Valine, Miscellaneous (%)	1	1	1.4650							
139.00	Taurine, Post-col Ninhydrin Der (%)	6	6	0.21550	0.06021	0.21550	0.06827	0.03484	31.68%	0.01367	5.04%
139.01	Taurine, Pre-col OPA Der (%)	1	1	0.21650							
139.02	Taurine, Post-col OPA Der (%)	1	1	0.19200							
139.03	Taurine, Pre-col Dansyl Cl Der (%)	2	2	0.12318	0.02570						
139.05	Taurine, Pre-col AQC Der (%)	2	2	0.17525	0.02086						
139.99	Taurine, Miscellaneous (%)	2	2	0.14378	0.04416						
160.99	Fructose, Miscellaneous (%)	5	2	0.06288	0.01644					0.00395	

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value - Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
161.99	Galactose, Miscellaneous (%)	3	1								
162.99	Glucose, Miscellaneous (%)	5	2	0.04615	0.01747					0.00100	
163.99	Lactose, Miscellaneous (%)	5									
164.99	Maltose, Miscellaneous (%)	4	1								
165.99	Sucrose, Miscellaneous (%)	7	6	0.46767	0.03629	0.46767	0.04115	0.02100	8.80%	0.00683	4.48%
166.99	Raffinose, Miscellaneous (%)	1	1	0.12100							
167.99	Stachyose, Miscellaneous (%)	1	1	0.11950							
400.01	Water activity, Aqualab chilled mirror (Units)	6	6	0.42786	0.03619	0.42714	0.03936	0.02008	9.21%	0.00682	
400.99	Water activity, Miscellaneous (Units)	3	3	0.40633	0.01601	0.40633	0.01601	0.00924	3.94%	0.01000	
516.00	Arsenic, total, AA, Hydride (mg / kg (ppm))	1	1	0.09500							
516.43	Arsenic, total, ICP, Microwave (mg / kg (ppm))	1	1	0.44500							
516.52	Arsenic, total, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.18500							
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.11519	0.01637	0.11519	0.01637	0.00732	14.21%	0.01214	22.00%
516.99	Arsenic, total, Miscellaneous (mg / kg (ppm))	1	1	0.05750							
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	3	3	0.03633	0.01616	0.03633	0.01616	0.00933	44.47%	0.00733	22.00%
518.43	Cadmium, ICP, Microwave (mg / kg (ppm))	1	1	0.07350							
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.04244	0.00493	0.04244	0.00493	0.00221	11.62%	0.00336	22.00%
520.31	Chromium, AAS, Dry ash (mg / kg (ppm))	2	2	8.2650	10.798						
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	3	3	2.7470	0.78229	2.7470	0.78229	0.45166	28.48%	0.23333	13.74%
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	3.6000							
520.52	Chromium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	2.3500							
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	2	2	2.6823	0.88777						
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	2	1	0.26000							
526.52	Lead, ICP-MS, Open vessel (mg / kg (ppm))	1	1	0.28000							
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.26858	0.02288	0.26858	0.02288	0.01023	8.52%	0.01748	19.50%
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	2	2	1.7173	0.54129						
539.52	Nickel, ICP-MS, Open vessel (mg / kg (ppm))	1	1	2.0500							
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	3	3	1.6332	0.38113	1.6332	0.38113	0.22005	23.34%	0.16910	14.86%
702.00	Butyric Acid (4:0), Miscellaneous GC (%)	1	1	0.04100							
704.00	Caproic Acid (6:0), Miscellaneous GC (%)	1	1	0.03200							
706.01	Caprylic acid (8:0), Direct Methylation by Alkali Hy	1	1	0.02000							
708.01	Capric acid (10:0), Direct Methylation by Alkali Hy	1	1	0.02050							
710.01	Lauric Acid (12:0), Direct Methylation by Alkali Hy	1	1	0.03750							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	2	2	0.01400	0.00071						
714.01	Myristic Acid (14:0), Direct Methylation by Alkali H	1	1	0.08250							
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	1	1	0.09500							
716.01	Palmitic Acid (16:0), Direct Methylation by Alkali H	1	1	3.0700							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	1	1	3.2440							

Method Code	Analyte and Method	Total # Labs Submitting	# Labs in Robust Calcs	Raw Mean	Raw SD	Assigned Value - Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
718.01	Palmitoleic Acid (9c-16:1), Direct Methylation by A	1	1	0.62000							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w	2	2	0.68700	0.05162						
720.99	Margaric acid (17:0), Miscellaneous (% (w/w))	1	1	0.02200							
722.01	Stearic Acid (18:0), Direct Methylation by Alkali Hy	1	1	0.59450							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.88400							
724.01	Oleic Acid (9c-18:1), Direct Methylation by Alkali F	1	1	4.3500							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	1	1	5.0470							
726.01	Linoleic Acid (9c,12c-18:2), Direct Methylation by ,	1	1	2.7550							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/	2	2	3.2933	0.15167						
728.01	alpha-Linolenic Acid (9c,12c,15c-18:3), Direct Met	1	1	0.27650							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellane	3	3	0.44550	0.09079	0.44550	0.09079	0.05242	20.38%	0.00500	
730.01	Arachidic Acid (20:0), Direct Methylation by Alkali	1	1	0.08650							
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	1	1	0.02050							
732.01	Gondoic Acid (11c-20:1), Direct Methylation by Alk	1	1	0.08450							
736.01	Arachidonic Acid (5c,8c,11c,14c-20:4), Direct Metl	1		0.00000							
736.99	Arachidonic Acid (5c,8c,11c,14c-20:4), Miscellane	2	2	0.10775	0.05056						
738.01	Mead Acid (11c,14c,17c-20:3), Direct Methylation	1	1	0.08900							
740.01	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5	1		0.00000							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5	2	2	0.01175	0.00106						
744.01	Erucic Acid (13c-22:1), Direct Methylation by Alkal	1		0.00000							
746.01	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13c	1		0.00000							
746.99	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13c	2	2	0.00925	0.00035						
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	1	1	0.01000							
750.01	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c	1		0.00000							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c	2	2	0.01800	0.00141						
752.01	Nervonic Acid (24:1) isomers, Direct Methylation b	1		0.00000							
754.01	Total n-3 Polyunsaturated (Omega-3) Fatty Acids,	2	2	2.0028	2.3154						
754.02	Total n-3 Polyunsaturated (Omega-3) Fatty Acids,	1	1	0.50000							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids,	5	5	0.43510	0.06268	0.41263	0.04325	0.02163	10.48%	0.00220	
756.01	Total n-6 Polyunsaturated (Omega-6) Fatty Acids,	1	1	23.965							
756.02	Total n-6 Polyunsaturated (Omega-6) Fatty Acids,	1	1	3.6000							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids,	5	5	3.2018	0.34291	3.0935	0.28034	0.14017	9.06%	0.01120	

Notes: Robust statistics not used if < 6 labs reporting, in this case means and SD's may be reported based on Raw Data with obvious blunders removed.

Animal Feed Scheme
Cat Food, Dry
Sample # 201627

Method Precision Report

Methods Reported: 92
Labs Reporting: 212
Issue Date : 08/31/2016

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
001.00	Loss on Drying, Vac 95°C 5 hr (%)	9	8	5.4836	0.52979	0.51264	0.18909	0.54640	9.35%	3.448%	9.96%	2.8896
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	40	35	5.8272	0.27450	0.27010	0.06924	0.27883	4.64%	1.188%	4.78%	4.0272
001.99	Loss on Drying, Miscellaneous (%)	20	19	5.7635	0.36101	0.35831	0.06239	0.36370	6.22%	1.082%	6.31%	5.8296
002.00	Protein, Crude (%)	8	8	33.357	0.58118	0.56222	0.20820	0.59954	1.69%	0.624%	1.80%	2.8796
002.01	Protein, Auto Kjel-Foss (%)	13	11	33.250	0.39955	0.39683	0.06588	0.40226	1.19%	0.198%	1.21%	6.1055
002.05	Protein, Copper, Boric Acid (%)	31	28	33.213	0.28551	0.26992	0.13159	0.30029	0.81%	0.396%	0.90%	2.2820
002.06	Protein, Combustion Nitrogen Analyzer (%)	132	124	33.627	0.36583	0.34868	0.15654	0.38221	1.04%	0.466%	1.14%	2.4417
002.11	Protein, NIR (%)	10	10	31.591	2.6920	2.6906	0.12254	2.6934	8.52%	0.388%	8.53%	21.980
003.00	Fat, Eth Ext., Direct (%)	15	13	12.583	0.20085	0.19260	0.08059	0.20878	1.53%	0.640%	1.66%	2.5907
003.06	Fat, Pet Ether (%)	19	18	12.566	0.18159	0.16077	0.11939	0.20025	1.28%	0.950%	1.59%	1.6772
003.09	Fat, Soxtec, Eth Ext (%)	15	14	12.610	0.19061	0.18480	0.06600	0.19624	1.47%	0.523%	1.56%	2.9733
003.10	Fat, Soxtec, Pet Ether (%)	30	27	12.444	0.19779	0.16219	0.16009	0.22789	1.30%	1.287%	1.83%	1.4235
003.11	Fat, NIR (%)	10	8	13.259	1.2554	1.2553	0.02622	1.2556	9.47%	0.198%	9.47%	47.886
003.14	Fat, Ankom (%)	38	35	12.459	0.16630	0.12574	0.15391	0.19874	1.01%	1.235%	1.60%	1.2913
004.00	Fiber, Crude, Asbestos Free (%)	21	19	5.5193	0.54483	0.52977	0.17993	0.55949	9.60%	3.260%	10.14%	3.1094
004.06	Fiber, Fibertec (%)	23	22	5.6267	0.63339	0.62476	0.14736	0.64190	11.10%	2.619%	11.41%	4.3560
004.07	Fiber, ANKOM (%)	59	52	5.2507	1.1415	1.1328	0.19910	1.1502	21.57%	3.792%	21.90%	5.7767
005.00	Ash, 2h @ 600°C (%)	100	91	9.8760	0.11694	0.11190	0.04802	0.12177	1.13%	0.486%	1.23%	2.5358
005.05	Ash, 3h @ 550°C (%)	26	23	9.9261	0.08098	0.06955	0.05866	0.09098	0.70%	0.591%	0.92%	1.5510
005.99	Ash, Miscellaneous (%)	13	13	9.9875	0.16485	0.16177	0.04484	0.16787	1.62%	0.449%	1.68%	3.7437
008.02	Fiber, Acid Detergent (%)	15	14	7.9761	1.4428	1.4272	0.29877	1.4582	17.89%	3.746%	18.28%	4.8806
008.08	Fiber, Acid Detergent, ANKOM (%)	41	39	7.7919	1.8671	1.8503	0.35363	1.8837	23.75%	4.538%	24.18%	5.3268
009.09	Fiber, Neutral Detergent, ANKOM (%)	32	29	18.041	3.7484	3.7325	0.48806	3.7643	20.69%	2.705%	20.86%	7.7127
010.11	Moisture, NIR (%)	8	8	5.7408	0.84808	0.84677	0.06669	0.84939	14.75%	1.162%	14.80%	12.736
010.99	Moisture, Miscellaneous (%)	21	19	5.8571	0.28531	0.28109	0.06915	0.28947	4.80%	1.181%	4.94%	4.1862
011.01	Loss on Drying, 135°C 2hr (%)	80	72	6.3048	0.36622	0.36129	0.08469	0.37109	5.73%	1.343%	5.89%	4.3817
012.00	Starch, Polarimetric (Ewers) (%)	10	9	23.122	0.83679	0.82171	0.22362	0.85160	3.55%	0.967%	3.68%	3.8083
012.01	Starch, Megazyme (%)	9	8	23.133	1.0117	0.96626	0.42418	1.0553	4.18%	1.834%	4.56%	2.4878
013.00	Fat, Acid hydrolysis (%)	27	24	15.014	0.41262	0.40116	0.13658	0.42377	2.67%	0.910%	2.82%	3.1027
013.02	Fat, Mojonier, Bak Ext (%)	30	27	15.365	0.34822	0.33189	0.14904	0.36382	2.16%	0.970%	2.37%	2.4411
013.10	Fat, Soxtec-Acid Hydrolysis (%)	11	9	14.291	0.75529	0.75292	0.08454	0.75765	5.27%	0.592%	5.30%	8.9622
013.13	Fat, Ankom- Acid Hydrolysis (%)	10	9	15.205	0.60660	0.59901	0.13520	0.61408	3.94%	0.889%	4.04%	4.5420

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
019.00	Calcium, Ox-MnO4 Vol. (%)	16	13	2.4122	0.06829	0.06588	0.02540	0.07061	2.73%	1.053%	2.93%	2.7801
019.31	Calcium, AAS, Dry ash (%)	21	19	2.3727	0.06382	0.04318	0.06646	0.07926	1.82%	2.801%	3.34%	1.1925
019.41	Calcium, ICP, Dry ash (%)	31	28	2.4638	0.09274	0.09050	0.02865	0.09492	3.67%	1.163%	3.85%	3.3133
019.42	Calcium, ICP, Open vessel (%)	20	18	2.4875	0.17104	0.16844	0.04208	0.17361	6.77%	1.692%	6.98%	4.1255
019.43	Calcium, ICP, Microwave (%)	20	17	2.4203	0.08291	0.08141	0.02219	0.08438	3.36%	0.917%	3.49%	3.8027
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	13	12	21.493	1.7934	1.7127	0.75253	1.8707	7.97%	3.501%	8.70%	2.4859
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	23	22	20.340	3.4403	3.3819	0.89220	3.4976	16.63%	4.386%	17.20%	3.9202
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	19	17	22.451	2.2788	2.2549	0.46555	2.3025	10.04%	2.074%	10.26%	4.9457
022.43	Copper, ICP, Microwave (mg / kg (ppm))	17	15	20.623	3.4644	3.4482	0.47411	3.4806	16.72%	2.299%	16.88%	7.3414
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	13	11	174.05	10.608	10.457	2.5289	10.758	6.01%	1.453%	6.18%	4.2541
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	29	26	167.17	13.075	12.850	3.4138	13.296	7.69%	2.042%	7.95%	3.8948
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	15	169.93	14.963	14.696	3.9812	15.226	8.65%	2.343%	8.96%	3.8243
025.43	Iron, ICP, Microwave (mg / kg (ppm))	19	16	166.94	17.034	16.876	3.2668	17.189	10.11%	1.957%	10.30%	5.2619
027.31	Magnesium, AAS, Dry ash (%)	15	13	0.11340	0.00764	0.00704	0.00420	0.00820	6.21%	3.701%	7.23%	1.9531
027.41	Magnesium, ICP, Dry ash (%)	26	24	0.11458	0.00834	0.00804	0.00314	0.00863	7.01%	2.739%	7.53%	2.7486
027.42	Magnesium, ICP, Open vessel (%)	20	17	0.11804	0.00610	0.00567	0.00318	0.00650	4.81%	2.694%	5.51%	2.0451
027.43	Magnesium, ICP, Microwave (%)	18	17	0.11429	0.00836	0.00781	0.00420	0.00887	6.83%	3.675%	7.76%	2.1114
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	13	12	22.257	1.7767	1.7020	0.72105	1.8484	7.65%	3.240%	8.31%	2.5635
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	25	22	22.870	1.3641	1.2878	0.63608	1.4363	5.63%	2.781%	6.28%	2.2581
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	20	19	23.604	1.4609	1.2324	1.1095	1.6582	5.22%	4.700%	7.03%	1.4946
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	17	16	22.709	3.6195	3.5745	0.80488	3.6640	15.74%	3.544%	16.13%	4.5522
031.01	Phosphorus, Photometric (%)	44	39	1.4568	0.05989	0.05803	0.02093	0.06169	3.98%	1.437%	4.23%	2.9476
031.41	Phosphorus, ICP, Dry ash (%)	30	29	1.5037	0.07592	0.07309	0.02904	0.07865	4.86%	1.932%	5.23%	2.7079
031.42	Phosphorus, ICP, Open vessel (%)	20	19	1.5073	0.10652	0.10288	0.03907	0.11004	6.83%	2.592%	7.30%	2.8166
031.43	Phosphorus, ICP, Microwave (%)	17	17	1.5162	0.06335	0.06032	0.02736	0.06624	3.98%	1.805%	4.37%	2.4206
032.31	Potassium, AAS, Dry ash (%)	17	16	0.76104	0.07288	0.07191	0.01674	0.07383	9.45%	2.199%	9.70%	4.4114
032.41	Potassium, ICP, Dry ash (%)	27	25	0.76773	0.04529	0.04414	0.01429	0.04640	5.75%	1.862%	6.04%	3.2463
032.42	Potassium, ICP, Open vessel (%)	21	19	0.80578	0.04041	0.03956	0.01163	0.04124	4.91%	1.443%	5.12%	3.5470
032.43	Potassium, ICP, Microwave (%)	17	16	0.79781	0.04339	0.04264	0.01139	0.04413	5.34%	1.427%	5.53%	3.8760
033.00	Salt as chloride, Sol Cl (%)	18	17	0.75434	0.12910	0.12858	0.01640	0.12962	17.05%	2.175%	17.18%	7.9019
033.01	Salt as chloride, Poten Cl (%)	24	23	0.85902	0.02730	0.02675	0.00765	0.02783	3.11%	0.890%	3.24%	3.6378
035.31	Sodium, AAS, Dry ash (%)	17	16	0.49836	0.04554	0.04441	0.01427	0.04665	8.91%	2.864%	9.36%	3.2683
035.41	Sodium, ICP, Dry ash (%)	34	32	0.49915	0.03227	0.03157	0.00946	0.03295	6.32%	1.895%	6.60%	3.4838
035.42	Sodium, ICP, Open vessel (%)	18	18	0.50024	0.04022	0.03941	0.01134	0.04101	7.88%	2.266%	8.20%	3.6175
035.43	Sodium, ICP, Microwave (%)	16	15	0.48857	0.02876	0.02825	0.00764	0.02926	5.78%	1.565%	5.99%	3.8283
036.42	Sulfur, ICP, Open vessel (%)	21	19	0.67351	0.05004	0.04957	0.00971	0.05051	7.36%	1.441%	7.50%	5.2027
036.43	Sulfur, ICP, Microwave (%)	9	8	0.64849	0.04199	0.03866	0.02317	0.04507	5.96%	3.573%	6.95%	1.9456
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	18	16	168.22	13.690	13.541	2.8497	13.838	8.05%	1.694%	8.23%	4.8558
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	27	26	168.58	10.631	10.063	4.8461	11.169	5.97%	2.875%	6.63%	2.3048
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	22	19	173.66	13.597	13.429	3.0145	13.763	7.73%	1.736%	7.93%	4.5655

Sample # 201627

Issue Date : 08/31/2016

Method Code	Analyte and Method	Total # Labs Submitting	# Labs used in Precision Calcs	Precision Mean	Precision SD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	20	170.03	12.086	11.876	3.1779	12.293	6.98%	1.869%	7.23%	3.8685
106.02	Vitamin A, LC (KU / kg)	21	19	13.580	4.2580	4.1869	1.0955	4.3278	30.83%	8.067%	31.87%	3.9506
109.02	Vitamin E, LC (IU/kg)	25	22	165.15	41.628	41.420	5.8765	41.835	25.08%	3.558%	25.33%	7.1189
120.00	Alanine, Post-col Ninhydrin Der (%)	17	15	2.0889	0.04204	0.04082	0.01421	0.04322	1.95%	0.680%	2.07%	3.0416
121.00	Arginine, Post-col Ninhydrin Der (%)	17	16	2.1410	0.07065	0.06978	0.01565	0.07151	3.26%	0.731%	3.34%	4.5696
122.00	Aspartic, Post-col Ninhydrin Der (%)	17	16	2.6761	0.18818	0.18718	0.02733	0.18917	6.99%	1.021%	7.07%	6.9204
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	17	15	0.35096	0.01712	0.01647	0.00662	0.01775	4.69%	1.887%	5.06%	2.6796
125.00	Glutamic, Post-col Ninhydrin Der (%)	17	16	4.6008	0.11294	0.10906	0.04149	0.11669	2.37%	0.902%	2.54%	2.8125
126.00	Glycine, Post-col Ninhydrin Der (%)	17	16	2.9306	0.07546	0.07345	0.02447	0.07742	2.51%	0.835%	2.64%	3.1642
127.00	Histidine, Post-col Ninhydrin Der (%)	17	14	0.72902	0.05402	0.05358	0.00979	0.05446	7.35%	1.343%	7.47%	5.5607
128.00	Isoleucine, Post-col Ninhydrin Der (%)	17	14	1.2492	0.05269	0.05094	0.01900	0.05437	4.08%	1.521%	4.35%	2.8618
129.00	Leucine, Post-col Ninhydrin Der (%)	17	15	2.2729	0.04890	0.04545	0.02552	0.05212	2.00%	1.123%	2.29%	2.0424
130.00	L-Lysine, Post-col Ninhydrin Der (%)	17	15	2.0231	0.10368	0.10313	0.01499	0.10422	5.10%	0.741%	5.15%	6.9519
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	17	16	0.64465	0.04854	0.04739	0.01490	0.04967	7.35%	2.311%	7.71%	3.3349
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	17	17	1.3220	0.04593	0.04314	0.02232	0.04857	3.26%	1.688%	3.67%	2.1763
133.00	Proline, Post-col Ninhydrin Der (%)	17	17	2.1598	0.11095	0.10689	0.04210	0.11488	4.95%	1.949%	5.32%	2.7288
134.00	Serine, Post-col Ninhydrin Der (%)	17	15	1.2949	0.05627	0.05491	0.01736	0.05759	4.24%	1.341%	4.45%	3.3177
135.00	Threonine, Post-col Ninhydrin Der (%)	17	16	1.2492	0.04127	0.03960	0.01646	0.04288	3.17%	1.318%	3.43%	2.6051
137.00	Tyrosine, Post-col Ninhydrin Der (%)	13	11	0.93829	0.06092	0.05944	0.01888	0.06236	6.33%	2.012%	6.65%	3.3034
138.00	Valine, Post-col Ninhydrin Der (%)	17	16	1.4897	0.10641	0.10462	0.02743	0.10816	7.02%	1.841%	7.26%	3.9436

Notes: Precision Calculations provided for methods with 8 or more labs used in calculations.