

**Animal Feed Scheme**  
**Rabbit Feed**  
**Test Material Code # 201826**
**Method Summary Report**  
 (Precision Report Follows)

**# Methods Reported: 379**  
**# Labs Reporting: 193**  
**Issue Date : 07/31/2018**

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
000.02	Urea, As protein, Colorimetric (%)	1	1	0.20000							
001.00	Loss on Drying, Vac 95°C 5 hr (%)	5	4	8.2620	0.45229	8.2620	0.45229	0.28268	5.47%	0.10800	2.91%
001.02	Loss on Drying, Vac on sand (%)	1	1	7.3200							
001.03	Loss on Drying, Low temp. methods (%)	6	6	8.2140	0.16826	8.2140	0.19080	0.09737	2.32%	0.03578	2.91%
001.05	Loss on Drying, LECO (%)	2	2	8.1650	0.50912						
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	47	46	8.1477	0.31214	8.1818	0.25054	0.04618	3.06%	0.14078	2.92%
001.99	Loss on Drying, Miscellaneous (%)	24	24	7.9962	0.56354	8.0181	0.58179	0.14845	7.26%	0.20818	2.92%
002.00	Protein, Crude, Crude (%)	1	1	20.065							
002.01	Protein, Crude, Auto Kjel-Foss (%)	15	15	19.876	0.29660	19.866	0.27509	0.08878	1.38%	0.15040	2.24%
002.02	Protein, Crude, Semiauto Autoanalyzer (%)	4	4	19.821	0.21503	19.821	0.21503	0.13439	1.08%	0.11913	2.25%
002.03	Protein, Crude, Hach Method (%)	1	1	18.863							
002.04	Protein, Crude, Copper Catalyst (%)	5	4	20.010	0.13693	20.010	0.13693	0.09882	0.68%	0.07500	2.24%
002.05	Protein, Crude, Copper, Boric Acid (%)	35	35	19.769	0.37201	19.810	0.29309	0.06193	1.48%	0.10162	2.25%
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	127	124	20.147	0.29361	20.152	0.25216	0.02831	1.25%	0.16198	2.23%
002.08	Protein, Crude, Cu/Ti (%)	2	2	19.850	0.44516						
002.10	Protein, Crude, Block dig/distillation (%)	1	1	19.510							
002.11	Protein, Crude, NIR (%)	9	9	21.151	0.79954	21.152	0.90415	0.37673	4.27%	0.28333	2.17%
002.99	Protein, Crude, Miscellaneous (%)	2	2	19.628	0.16617						
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	15	14	3.2636	0.31426	3.2815	0.21200	0.07083	6.46%	0.06039	3.34%
003.01	Fat, Crude, Diethyl Ether Ext (13th ed.), Indirect (%)	2	2	3.2825	0.00354						
003.06	Fat, Crude, Pet Ether (%)	18	18	3.2694	0.36643	3.2361	0.14588	0.04298	4.51%	0.12402	3.35%
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	17	17	3.3864	0.18855	3.3846	0.21003	0.06367	6.21%	0.11667	3.33%
003.10	Fat, Crude, Randall, Pet Ether (%)	34	33	3.0718	0.18658	3.0654	0.13922	0.03029	4.54%	0.10947	3.38%
003.11	Fat, Crude, NIR (%)	9	9	2.8400	0.70905	2.8671	0.74209	0.30921	25.88%	0.08889	3.41%
003.12	Fat, Crude, Hexane Ext (%)	5	4	3.0279	0.15198	3.0279	0.15198	0.09499	5.02%	0.02128	3.39%
003.13	Fat, Crude, Randall, Hexane Ext. (%)	5	4	3.1313	0.03966	3.1313	0.03966	0.02479	1.27%	0.04250	3.37%
003.14	Fat, Crude, Ankom (%)	46	45	3.0943	0.27837	3.0899	0.26289	0.04899	8.51%	0.15205	3.38%
003.99	Fat, Crude, Miscellaneous (%)	4	4	3.3000	0.12695	3.3000	0.12695	0.07934	3.85%	0.14000	3.34%
004.00	Fiber, Crude, Asbestos Free (%)	19	18	19.074	0.87185	19.132	0.85618	0.25225	4.48%	0.21743	2.29%
004.03	Fiber, Crude, Fritted Glass (%)	7	7	19.121	1.9825	19.165	2.1467	1.0142	11.20%	0.40729	2.28%
004.06	Fiber, Crude, Fibertec (%)	24	23	19.627	0.96915	19.607	1.0563	0.27532	5.39%	0.18174	2.26%
004.07	Fiber, Crude, ANKOM (%)	65	64	19.165	1.3513	19.075	0.94454	0.14758	4.95%	0.28545	2.29%

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004.11	Fiber, Crude, NIR (%)	9	9	17.297	6.3332	16.094	3.8422	1.6009	23.87%	0.26667	2.49%
004.99	Fiber, Crude, Miscellaneous (%)	5	4	18.326	1.0262	18.326	1.0262	0.64138	5.60%	0.10250	2.34%
005.00	Ash, 2h @ 600°C (%)	90	88	7.8284	0.23154	7.8193	0.20905	0.02786	2.67%	0.07990	2.94%
005.02	Ash, LECO (%)	2	2	8.2250	0.10607						
005.03	Ash, Microwave furnace (%)	1	1	7.6500							
005.05	Ash, 3h @ 550°C (%)	36	34	8.0729	0.20012	8.0632	0.15464	0.03315	1.92%	0.08306	2.92%
005.11	Ash, NIR (%)	7	7	9.8771	3.5210	9.8771	3.9928	1.8864	40.42%	0.27429	2.83%
005.99	Ash, Miscellaneous (%)	12	12	7.9671	0.41339	8.0101	0.35609	0.12849	4.45%	0.09083	2.92%
006.00	Total Sugars, As sucrose (%)	2	2	7.0300	2.1072						
006.99	Total Sugars, Miscellaneous (%)	2	2	3.4400	2.4183						
008.02	Fiber, Acid Detergent, Crucible (%)	15	14	24.660	1.4112	24.688	1.3043	0.43574	5.28%	0.32585	2.01%
008.05	Fiber, Acid Detergent, Acid Detergent-Hach (%)	1	1	25.150							
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	43	42	23.748	1.7065	23.632	1.5741	0.30362	6.66%	0.39446	2.06%
008.99	Fiber, Acid Detergent, Miscellaneous (%)	6	6	21.374	4.8638	22.051	3.8501	1.9648	17.46%	0.35167	2.13%
009.04	Fiber, Neutral Detergent, Neutral Det-No ENZ Pretreat (%)	1	1	35.910							
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	14	13	36.402	1.7022	36.421	1.6420	0.56926	4.51%	0.46684	1.66%
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	41	41	35.090	2.9054	35.170	1.9075	0.37238	5.42%	0.49066	1.69%
009.99	Fiber, Neutral Detergent, Miscellaneous (%)	4	4	36.463	3.1432	36.463	3.1432	1.9645	8.62%	0.51000	1.66%
010.03	Moisture, Karl-Fischer (%)	2	2	8.0175	0.37830						
010.11	Moisture, NIR (%)	6	6	9.2017	1.1285	9.1722	1.2107	0.61785	13.20%	0.04333	2.87%
010.99	Moisture, Miscellaneous (%)	20	20	8.4023	0.45832	8.3888	0.43602	0.12187	5.20%	0.08256	2.90%
011.01	Loss on Drying, 135°C 2hr (%)	64	62	8.9729	0.31812	8.9932	0.28334	0.04498	3.15%	0.09609	2.87%
011.02	Loss on Drying, 130°C for 2 hours (%)	3	3	8.8800	0.31575	8.8800	0.31575	0.27909	3.56%	0.14667	2.88%
011.99	Loss on Drying, High Temp. Methods Miscellaneous (%)	2	2	9.1825	0.04596						
012.00	Starch, Polarimetric (Ewers) (%)	15	15	10.918	0.75596	10.873	0.71046	0.22930	6.53%	0.17340	2.79%
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	11	11	8.3273	1.0615	8.2763	0.98612	0.37166	11.91%	0.38636	2.91%
012.03	Starch, Enzymatic-Colorimetric Method, Miscellaneous (%)	6	6	9.2243	1.8914	8.9093	1.3604	0.69421	15.27%	0.44433	2.88%
012.04	Starch, Enzymatic-Enzyme Membrane Technology (YSI) (%)	4	3	7.1583	1.3073	7.1583	1.3073	0.94346	18.26%	0.11667	2.97%
012.11	Starch, NIR (%)	5	5	12.989	6.5204	12.989	6.5204	3.6450	50.20%	0.20200	2.72%
012.99	Starch, Miscellaneous (%)	1	1	11.605							
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	23	23	4.0374	0.44311	4.0159	0.45356	0.11822	11.29%	0.11316	3.24%
013.02	Fat, Acid Pretreat, Mojonnier, Bak Ext (%)	16	16	4.7504	0.88694	4.5922	0.45047	0.14077	9.81%	0.09258	3.18%
013.08	Fat, Base Pretreat, Roese-Gottlieb Modified (%)	1	1	2.2983							
013.10	Fat, Acid Pretreat, Soxtec-Acid Hydrolysis (%)	4	4	3.9034	0.72647	3.9034	0.72647	0.45404	18.61%	0.06538	3.26%
013.13	Fat, Acid Pretreat, Ankom- Acid Hydrolysis (%)	6	6	5.0518	1.0252	5.0518	1.1626	0.59330	23.01%	0.31157	3.13%
015.32	Aluminum, AAS, Open vessel (mg / kg (ppm))	1	1	7.5400							
015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	4	3	497.10	27.751	497.10	27.751	24.529	5.58%	1.4667	6.28%
015.42	Aluminum, ICP, Open vessel (mg / kg (ppm))	1	1	432.15							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	6	6	338.33	85.090	338.33	96.493	49.241	28.52%	28.240	6.66%
015.52	Aluminum, ICP-MS, Open vessel (mg / kg (ppm))	1	1	182.50							

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015.53	Aluminum, ICP-MS, Microwave (mg / kg (ppm))	1	1	498.50							
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	4	4	20.750	0.59701	20.750	0.59701	0.37313	2.88%	0.35000	10.13%
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	6	6	20.446	1.6782	20.446	1.9031	0.97118	9.31%	0.39700	10.16%
017.43	Boron, ICP, Microwave (mg / kg (ppm))	5	5	18.880	2.9677	18.880	2.9677	1.6590	15.72%	0.91200	10.28%
019.00	Calcium, Ox-Mn04 Vol. (%)	11	11	1.1926	0.07363	1.1923	0.08283	0.03122	6.95%	0.02551	3.90%
019.02	Calcium, Hach Method (%)	2	2	1.3813	0.40482						
019.03	Calcium, Semiauto (Autoanalyzer) (%)	1	1	1.2482							
019.08	Calcium, EDTA (%)	10	10	1.2069	0.04038	1.2069	0.04579	0.01810	3.79%	0.02572	3.89%
019.31	Calcium, AAS, Dry ash (%)	26	25	1.1990	0.08012	1.2068	0.06097	0.01524	5.05%	0.03247	3.89%
019.32	Calcium, AAS, Open vessel (%)	3	3	1.3357	0.15364	1.3357	0.15364	0.13580	11.50%	0.03533	3.83%
019.33	Calcium, AAS, Microwave (%)	2	2	1.2958	0.07884						
019.41	Calcium, ICP, Dry ash (%)	32	31	1.1911	0.05132	1.1906	0.04184	0.00939	3.51%	0.02719	3.90%
019.42	Calcium, ICP, Open vessel (%)	23	23	1.2242	0.06577	1.2248	0.07320	0.01908	5.98%	0.04895	3.88%
019.43	Calcium, ICP, Microwave (%)	27	26	1.2109	0.06977	1.2127	0.06166	0.01512	5.08%	0.02139	3.89%
019.52	Calcium, ICP-MS, Open vessel (%)	3	3	1.2108	0.09113	1.2108	0.09113	0.06577	7.53%	0.04303	3.89%
019.53	Calcium, ICP-MS, Microwave (%)	3	3	1.2063	0.08488	1.2063	0.08488	0.06126	7.04%	0.06200	3.89%
019.99	Calcium, Miscellaneous (%)	7	7	1.2261	0.06633	1.2237	0.06964	0.03290	5.69%	0.02240	3.88%
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	2	2	2.9000	0.63640						
021.34	Cobalt, AAS, Graphite furnace (mg / kg (ppm))	1	1	3.0700							
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	2	2	2.5550	0.55154						
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	3	3	2.1667	0.44523	2.1667	0.44523	0.32132	20.55%	0.15533	14.24%
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	4	4	2.5998	0.48775	2.5998	0.48775	0.30484	18.76%	0.11400	13.85%
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	2	2	1.6075	0.45608						
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	3	3	2.2278	0.60854	2.2278	0.60854	0.43918	27.32%	0.12880	14.18%
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	13	12	47.633	17.718	42.809	7.4376	2.6838	17.37%	0.57289	9.09%
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	3	3	36.324	2.0236	36.324	2.0236	1.7886	5.57%	3.0170	9.32%
022.33	Copper, AAS, Microwave (mg / kg (ppm))	2	2	37.853	0.56993						
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	26	26	36.581	5.1014	36.832	4.3268	1.0607	11.75%	1.5232	9.30%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	23	22	38.453	3.1071	38.556	3.2997	0.87936	8.56%	1.4490	9.23%
022.43	Copper, ICP, Microwave (mg / kg (ppm))	21	21	36.622	3.4743	36.726	3.2483	0.88606	8.84%	1.3565	9.30%
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	2	2	37.508	0.76721						
022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	2	2	38.175	2.0860						
022.99	Copper, Miscellaneous (mg / kg (ppm))	6	6	35.675	0.87164	35.675	0.98844	0.50441	2.77%	1.2367	9.34%
023.01	Fluorine, Ion Sel Elect (mg / kg (ppm))	1	1	6.7000							
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	18	18	444.27	36.713	440.56	30.782	9.0693	6.99%	9.4962	6.40%
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	3	3	395.15	31.519	395.15	31.519	22.747	7.98%	37.992	6.50%
025.33	Iron, AAS, Microwave (mg / kg (ppm))	1	1	463.70							
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	24	24	444.38	38.021	443.38	26.522	6.7671	5.98%	15.143	6.39%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	17	16	362.05	63.822	366.81	57.372	17.929	15.64%	13.358	6.58%
025.43	Iron, ICP, Microwave (mg / kg (ppm))	18	18	429.35	60.139	427.79	64.844	19.105	15.16%	19.692	6.43%

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025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	1	1	440.00							
025.99	Iron, Miscellaneous (mg / kg (ppm))	4	3	399.99	17.654	399.99	17.654	12.741	4.41%	7.0533	6.49%
027.31	Magnesium, AAS, Dry ash (%)	14	14	0.29496	0.01794	0.29590	0.01345	0.00449	4.55%	0.00489	4.80%
027.32	Magnesium, AAS, Open vessel (%)	3	3	0.29275	0.02432	0.29275	0.02432	0.01755	8.31%	0.01270	4.81%
027.33	Magnesium, AAS, Microwave (%)	2	2	0.29265	0.05424						
027.41	Magnesium, ICP, Dry ash (%)	27	27	0.29227	0.01176	0.29258	0.01124	0.00270	3.84%	0.00610	4.81%
027.42	Magnesium, ICP, Open vessel (%)	22	21	0.28878	0.01843	0.28973	0.01509	0.00412	5.21%	0.01100	4.82%
027.43	Magnesium, ICP, Microwave (%)	21	20	0.28592	0.01496	0.28595	0.01691	0.00473	5.91%	0.00618	4.83%
027.52	Magnesium, ICP-MS, Open vessel (%)	2	2	0.31165	0.02001						
027.53	Magnesium, ICP-MS, Microwave (%)	2	2	0.29650	0.00919						
027.99	Magnesium, Miscellaneous (%)	5	4	0.28613	0.01517	0.28613	0.01517	0.01095	5.30%	0.00025	4.83%
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	15	14	150.44	8.5819	150.46	7.4106	2.4757	4.93%	2.2699	7.52%
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	4	4	149.65	17.554	149.65	17.554	10.971	11.73%	16.603	7.53%
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	2	2	149.59	16.350						
028.34	Manganese, AAS, Dry ash (mg / kg (ppm))	1	1	156.52							
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	23	23	141.46	11.225	141.83	9.5638	2.4927	6.74%	5.5881	7.59%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	22	21	147.11	10.729	147.11	12.166	3.3186	8.27%	4.9574	7.55%
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	19	19	147.98	6.8114	147.96	7.3416	2.1054	4.96%	6.6614	7.54%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	1	1	138.39							
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm))	1	1	154.00							
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	2	2	147.50	15.556						
028.99	Manganese, Miscellaneous (mg / kg (ppm))	5	5	144.50	16.661	144.50	16.661	9.3138	11.53%	5.2340	7.57%
031.00	Phosphorus, Vol (%)	1	1	0.65500							
031.01	Phosphorus, Photometric (%)	47	46	0.56631	0.05872	0.57384	0.02825	0.00521	4.92%	0.01422	4.35%
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%)	3	3	0.59333	0.02517	0.59333	0.02517	0.01816	4.24%	0.01333	4.33%
031.03	Phosphorus, Autoanalyzer (%)	3	3	0.56533	0.03118	0.56533	0.03118	0.02250	5.52%	0.00567	4.36%
031.06	Phosphorus, Hach Method (%)	1	1	0.61000							
031.41	Phosphorus, ICP, Dry ash (%)	29	29	0.57660	0.05307	0.57418	0.02582	0.00599	4.50%	0.00978	4.35%
031.42	Phosphorus, ICP, Open vessel (%)	22	21	0.56468	0.03175	0.56617	0.02898	0.00791	5.12%	0.01610	4.36%
031.43	Phosphorus, ICP, Microwave (%)	26	26	0.57351	0.02585	0.57315	0.02075	0.00509	3.62%	0.01390	4.35%
031.52	Phosphorus, ICP-MS, Open vessel (%)	2	2	0.60628	0.04069						
031.53	Phosphorus, ICP-MS, Microwave (%)	3	3	0.58467	0.09160	0.58467	0.09160	0.06611	15.67%	0.04400	4.34%
031.99	Phosphorus, Miscellaneous (%)	7	7	0.60046	0.07797	0.59095	0.06496	0.03069	10.99%	0.01867	4.33%
032.31	Potassium, AAS, Dry ash (%)	15	15	1.4370	0.08337	1.4315	0.07387	0.02384	5.16%	0.03035	3.79%
032.32	Potassium, AAS, Open vessel (%)	2	2	1.3475	0.03889						
032.33	Potassium, AAS, Microwave (%)	1	1	1.5650							
032.41	Potassium, ICP, Dry ash (%)	28	27	1.4281	0.08759	1.4348	0.08124	0.01954	5.66%	0.03577	3.79%
032.42	Potassium, ICP, Open vessel (%)	22	21	1.4764	0.06765	1.4738	0.05997	0.01636	4.07%	0.02312	3.77%
032.43	Potassium, ICP, Microwave (%)	26	24	1.4247	0.07876	1.4282	0.07503	0.01915	5.25%	0.02307	3.79%
032.52	Potassium, ICP-MS, Open vessel (%)	2	2	1.5085	0.04034						

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032.53	Potassium, ICP-MS, Microwave (%)	2	2	1.5400	0.07778						
032.99	Potassium, Miscellaneous (%)	7	7	1.3882	0.16669	1.4250	0.09134	0.04316	6.41%	0.01649	3.79%
033.00	Salt as chloride, Sol Cl (%)	24	23	0.81220	0.10433	0.79942	0.07677	0.02001	9.60%	0.02765	4.14%
033.01	Salt as chloride, Poten Cl (%)	31	30	0.85055	0.05442	0.85003	0.01836	0.00419	2.16%	0.01015	4.10%
033.03	Salt as chloride, Quantab (%)	5	5	0.74600	0.10761	0.74600	0.10761	0.06016	14.42%	0.02400	4.18%
033.05	Salt as chloride, Ion Sel Electrode (%)	4	4	0.81725	0.01713	0.81725	0.01713	0.01071	2.10%	0.02200	4.12%
033.99	Salt, Miscellaneous (%)	12	12	0.83820	0.18586	0.81518	0.04453	0.01607	5.46%	0.02608	4.12%
034.01	Selenium, Fluor (mg / kg (ppm))	1	1	0.93600							
034.04	Selenium, AA, Hydride (mg / kg (ppm))	6	5	0.83040	0.11171	0.83040	0.11171	0.01640	13.45%	0.02880	16.45%
034.32	Selenium, AAS, Open vessel (mg / kg (ppm))	1	1	0.51000							
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	2	2	0.72100	0.17536						
034.42	Selenium, ICP, Open vessel (mg / kg (ppm))	1	1	2.2500							
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2	2	1.6719	1.7121						
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	4	4	0.91250	0.05094	0.91250	0.05094	0.03184	5.58%	0.08900	16.22%
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	5	5	0.96998	0.14082	0.96998	0.14082	0.07872	14.52%	0.05776	16.07%
034.99	Selenium, Miscellaneous (mg / kg (ppm))	1	1	1.2300							
035.01	Sodium, Ion-selective electrode (%)	1	1	0.33400							
035.05	Sodium, Flame Emission (%)	3	3	0.33550	0.02309	0.33550	0.02309	0.02041	6.88%	0.00367	4.71%
035.31	Sodium, AAS, Dry ash (%)	22	21	0.32713	0.04761	0.32290	0.03120	0.00851	9.66%	0.01256	4.74%
035.32	Sodium, AAS, Open vessel (%)	2	2	0.30750	0.01768						
035.41	Sodium, ICP, Dry ash (%)	26	25	0.31059	0.03258	0.31349	0.01499	0.00375	4.78%	0.00610	4.76%
035.42	Sodium, ICP, Open vessel (%)	18	17	0.31614	0.01590	0.31606	0.01269	0.00385	4.02%	0.00816	4.76%
035.43	Sodium, ICP, Microwave (%)	22	22	0.31368	0.01807	0.31334	0.01831	0.00488	5.84%	0.00931	4.76%
035.52	Sodium, ICP-MS, Open vessel (%)	2	2	0.35998	0.03815						
035.53	Sodium, ICP-MS, Microwave (%)	3	3	0.30817	0.00407	0.30817	0.00407	0.00360	1.32%	0.00633	4.77%
035.99	Sodium, Miscellaneous (%)	5	4	0.37250	0.11236	0.37250	0.11236			0.00000	4.64%
036.04	Sulfur, LECO (%)	4	4	0.22055	0.02080	0.22055	0.02080	0.01300	9.43%	0.01565	5.02%
036.42	Sulfur, ICP, Open vessel (%)	20	19	0.23217	0.01736	0.23250	0.01507	0.00432	6.48%	0.00308	4.98%
036.43	Sulfur, ICP, Microwave (%)	11	11	0.23312	0.01810	0.23296	0.02018	0.00761	8.66%	0.00914	4.98%
036.52	Sulfur, ICP-MS, Open vessel (%)	2	2	0.24078	0.01941						
036.53	Sulfur, ICP-MS, Microwave (%)	1	1	0.21400							
036.99	Sulfur, Miscellaneous (%)	2	2	0.23148	0.00916						
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	20	20	217.64	58.400	224.60	31.328	8.7565	13.95%	3.2443	7.08%
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	4	4	222.11	18.142	222.11	18.142	11.339	8.17%	5.9058	7.09%
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	4	4	256.32	31.627	256.32	31.627	19.767	12.34%	24.359	6.94%
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	26	26	226.79	12.267	226.16	12.151	2.9787	5.37%	7.4772	7.07%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	20	20	227.12	13.821	227.59	13.894	3.8835	6.10%	7.5974	7.07%
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	23	224.82	11.419	225.01	11.183	2.9147	4.97%	6.8644	7.08%
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	2	2	206.55	43.070						
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	2	2	245.25	5.3033						

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037.99	Zinc, Miscellaneous (mg / kg (ppm))	7	7	211.96	26.226	210.37	25.987	12.278	12.35%	6.5942	7.15%
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	3	3	1.8700	0.15025	1.8700	0.15025	0.10843	8.03%	0.04667	14.56%
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	4	3	1.8747	0.22115	1.8747	0.22115	0.15960	11.80%	0.04800	14.55%
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	5	4	1.6075	0.15234	1.6075	0.15234	0.13465	9.48%	0.08500	14.89%
038.52	Molybdenum, ICP-MS, Open vessel (mg / kg (ppm))	2	2	1.4925	0.20153						
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	3	3	1.6031	0.34493	1.6031	0.34493	0.24893	21.52%	0.13333	14.90%
040.42	Barium, ICP, Open vessel (mg / kg (ppm))	1	1	22.150							
040.53	Barium, ICP-MS, Microwave (mg / kg (ppm))	1	1	20.304							
041.53	Vanadium, ICP-MS, Microwave (mg / kg (ppm))	1	1	0.66250							
042.00	Chloride, Titrimetric (%)	1	1	0.50900							
042.02	Chloride, Ion Chromatography (%)	1	1	0.39000							
042.99	Chloride, Miscellaneous (%)	2	2	0.52000	0.00000						
101.02	Choline Chloride, LC (mg / kg (ppm))	1	1	1,780.0							
101.99	Choline Chloride, Miscellaneous (mg / kg (ppm))	1	1	1,340.0							
102.01	Niacin, Microbiological (mg / kg (ppm))	1	1	173.00							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	1	1	43.750							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	2	2	13.253	0.00354						
104.03	Riboflavin, LC (mg / kg (ppm))	3	3	13.723	3.7138	13.723	3.7138	2.6802	27.06%	0.42000	10.79%
105.00	Thiamine, LC (mg / kg (ppm))	2	2	7.8450	1.5274						
105.01	Thiamine, Fluorometer (mg / kg (ppm))	2	2	8.2725	2.5915						
106.00	Vitamin A, Color (KU / kg)	1	1	9.7900							
106.01	Vitamin A, UV (KU / kg)	1	1	14.200							
106.02	Vitamin A, LC (KU / kg)	19	18	10.042	3.0203	10.122	3.2453	0.95616	32.06%	0.98429	
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	1	1	24.050							
108.01	Vitamin D3, LC, AOAC (KU / kg)	1	1	6.0000							
108.02	Vitamin D3, LC (KU / kg)	6	6	5.5175	2.7564	4.8024	1.2714	0.64881	26.47%	0.67833	
109.02	Vitamin E, LC (IU / kg)	16	16	59.547	20.295	62.235	15.449	4.8280	24.82%	4.6221	
109.99	Vitamin E, Miscellaneous (IU / kg)	1	1	44.850							
111.01	Vitamin C, Ascorbic Acid, LC (mkg/kg (ppm))	1	1	3.4100							
112.01	Pyridoxine, LC (µg / g)	1	1	13.000							
112.99	Pyridoxine, Miscellaneous (µg / g)	1	1	12.930							
113.01	Folic Acid, Micro (mg / kg (ppm))	1	1	3.1300							
113.02	Folic acid, LC (mg / kg (ppm))	1	1	1.5900							
114.01	Biotin, Microbiological (mg / kg (ppm))	1	1	0.53400							
114.99	Biotin, Miscellaneous (mg / kg (ppm))	1		1,500.0							
118.99	Peroxide value, Miscellaneous (meq/kg)	1	1	4.9100							
120.00	Alanine, Post-col Ninhydrin Der (%)	21	20	0.88024	0.04804	0.87913	0.04072	0.01138	4.63%	0.00943	4.08%
120.01	Alanine, Pre-col OPA Der (%)	1	1	0.97500							
120.02	Alanine, Post-col OPA Der (%)	1	1	0.88900							
120.05	Alanine, Pre-col AQC Der (%)	7	6	0.86792	0.03881	0.86720	0.04234	0.02161	4.88%	0.02150	4.09%

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120.99	Alanine, Miscellaneous (%)	1	1	0.85500							
121.00	Arginine, Post-col Ninhydrin Der (%)	21	21	1.2268	0.06968	1.2327	0.05150	0.01405	4.18%	0.02335	3.88%
121.01	Arginine, Pre-col OPA Der (%)	1	1	1.3450							
121.02	Arginine, Post-col OPA Der (%)	1	1	1.1820							
121.05	Arginine, Pre-col AQC Der (%)	7	6	1.2180	0.05376	1.2180	0.06096	0.03111	5.01%	0.04167	3.88%
121.99	Arginine, Miscellaneous (%)	1	1	1.2000							
122.00	Aspartic, Post-col Ninhydrin Der (%)	21	21	2.0453	0.11277	2.0331	0.05695	0.01553	2.80%	0.04445	3.59%
122.01	Aspartic, Pre-col OPA Der (%)	1	1	2.1850							
122.02	Aspartic, Post-col OPA Der (%)	1	1	2.0700							
122.05	Aspartic, Pre-col AQC Der (%)	7	6	2.0273	0.12706	2.0262	0.14161	0.07226	6.99%	0.06217	3.60%
122.99	Aspartic, Miscellaneous (%)	1	1	2.0850							
124.00	Cysteine/Cystine, PAO Post-col Ninhytri (%)	21	21	0.31274	0.03295	0.31414	0.02355	0.00642	7.50%	0.00946	4.76%
124.01	Cysteine/Cystine, PAO Pre-col OPA Der (%)	1	1	0.30500							
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	1	1	0.32150							
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	5	4	0.35900	0.03787	0.35900	0.03787	0.02367	10.55%	0.01250	4.67%
124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	0.31000							
125.00	Glutamic, Post-col Ninhydrin Der (%)	21	21	3.2017	0.18723	3.1847	0.12913	0.03522	4.05%	0.05933	3.36%
125.01	Glutamic, Pre-col OPA Der (%)	1	1	3.3100							
125.02	Glutamic, Post-col OPA Der (%)	1	1	3.1655							
125.05	Glutamic, Pre-col AQC Der (%)	7	6	3.1708	0.22619	3.1125	0.06603	0.03370	2.12%	0.10400	3.37%
125.99	Glutamic, Miscellaneous (%)	1	1	3.3850							
126.00	Glycine, Post-col Ninhydrin Der (%)	21	21	0.96273	0.04770	0.95977	0.04098	0.01118	4.27%	0.01275	4.02%
126.01	Glycine, Pre-col OPA Der (%)	1	1	1.0350							
126.02	Glycine, Post-col OPA Der (%)	1	1	0.97250							
126.05	Glycine, Pre-col AQC Der (%)	7	6	0.97233	0.03058	0.97233	0.03468	0.01770	3.57%	0.00800	4.02%
126.99	Glycine, Miscellaneous (%)	1	1	0.96000							
127.00	Histidine, Post-col Ninhydrin Der (%)	21	21	0.47269	0.02981	0.47675	0.01748	0.00477	3.67%	0.00954	4.47%
127.01	Histidine, Pre-col OPA Der (%)	1	1	0.57000							
127.02	Histidine, Post-col OPA Der (%)	1	1	0.45900							
127.05	Histidine, Pre-col AQC Der (%)	7	6	0.46925	0.01454	0.46925	0.01649	0.00841	3.51%	0.00917	4.48%
127.99	Histidine, Miscellaneous (%)	1	1	0.46000							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	21	20	0.78243	0.07178	0.79888	0.02818	0.00788	3.53%	0.01170	4.14%
128.01	Isoleucine, Pre-col OPA Der (%)	1	1	0.91500							
128.02	Isoleucine, Post-col OPA Der (%)	1	1	0.78100							
128.05	Isoleucine, Pre-col AQC Der (%)	7	6	0.80742	0.07204	0.80742	0.08169	0.04169	10.12%	0.01483	4.13%
128.99	Isoleucine, Miscellaneous (%)	1	1	0.76500							
129.00	Leucine, Post-col Ninhydrin Der (%)	21	21	1.3654	0.08595	1.3740	0.06029	0.01645	4.39%	0.01712	3.81%
129.01	Leucine, Pre-col OPA Der (%)	1	1	1.4250							
129.02	Leucine, Post-col OPA Der (%)	1	1	1.3555							
129.05	Leucine, Pre-col AQC Der (%)	7	6	1.3582	0.06729	1.3566	0.07259	0.03704	5.35%	0.02533	3.82%

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129.99	Leucine, Miscellaneous (%)	1	1	1.3400							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	22	22	1.0806	0.05656	1.0825	0.06006	0.01601	5.55%	0.02022	3.95%
130.01	L-Lysine, Pre-col OPA Der (%)	1	1	1.1400							
130.02	L-Lysine, Post-col OPA Der (%)	1	1	1.0760							
130.05	L-Lysine, Pre-col AQC Der (%)	8	7	1.0880	0.04343	1.0868	0.04644	0.02194	4.27%	0.02914	3.95%
130.99	L-Lysine, Miscellaneous (%)	4	3	1.0933	0.04907	1.0933	0.04907	0.04337	4.49%	0.00667	3.95%
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	22	22	0.27643	0.02123	0.27609	0.02097	0.00559	7.60%	0.00784	4.85%
131.01	Methionine, PAO Pre-col OPA Der (%)	1	1	0.25000							
131.02	Methionine, PAO Post-col OPA Der (%)	2	2	0.27175	0.01167						
131.05	Methionine, PAO Pre-col AQC Der (%)	6	6	0.21075	0.09387	0.21146	0.10480	0.05348	49.56%	0.01283	5.05%
131.99	Methionine, Miscellaneous (%)	4	4	0.22388	0.07530	0.22388	0.07530	0.04706	33.63%	0.01625	5.01%
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	21	21	0.90267	0.03158	0.90321	0.03463	0.00945	3.83%	0.02405	4.06%
132.01	Phenylalanine, Pre-col OPA Der (%)	1	1	0.97500							
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	0.88400							
132.05	Phenylalanine, Pre-col AQC Der (%)	7	6	0.88317	0.04023	0.88317	0.04562	0.02328	5.17%	0.01733	4.08%
132.99	Phenylalanine, Miscellaneous (%)	1	1	0.94000							
133.00	Proline, Post-col Ninhydrin Der (%)	21	21	1.0938	0.08443	1.0902	0.07921	0.02161	7.27%	0.01729	3.95%
133.05	Proline, Pre-col AQC Der (%)	8	7	1.1068	0.03002	1.1068	0.03404	0.01608	3.08%	0.02414	3.94%
133.99	Proline, Miscellaneous (%)	1	1	0.87000							
134.00	Serine, Post-col Ninhydrin Der (%)	21	20	0.94561	0.04607	0.94651	0.04319	0.01207	4.56%	0.01020	4.03%
134.01	Serine, Pre-col OPA Der (%)	1	1	1.0350							
134.02	Serine, Post-col OPA Der (%)	1	1	0.81800							
134.05	Serine, Pre-col AQC Der (%)	7	6	0.89692	0.12505	0.93208	0.04973	0.02538	5.33%	0.02650	4.04%
134.99	Serine, Miscellaneous (%)	1	1	0.96000							
135.00	Threonine, Post-col Ninhydrin Der (%)	21	20	0.74370	0.03736	0.74543	0.03562	0.00996	4.78%	0.01451	4.18%
135.01	Threonine, Pre-col OPA Der (%)	1	1	0.81500							
135.02	Threonine, Post-col OPA Der (%)	1	1	0.73050							
135.05	Threonine, Pre-col AQC Der (%)	7	6	0.72925	0.10137	0.74825	0.06532	0.03333	8.73%	0.02517	4.18%
135.99	Threonine, Miscellaneous (%)	4	3	0.71333	0.01041	0.71333	0.01041	0.00751	1.46%	0.03333	4.21%
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	5	5	0.26211	0.05024	0.26211	0.05024	0.02809	19.17%	0.00878	4.89%
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	3	3	0.26300	0.01879	0.26300	0.01879	0.01356	7.14%	0.00200	4.89%
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.24750							
136.03	Tryptophan, Alka-Hydrol + IS RP LC FI (%)	5	4	0.27013	0.00025	0.27013	0.00025	0.00016	0.09%	0.00175	4.87%
136.99	Tryptophan, Miscellaneous (%)	3	3	0.25333	0.05346	0.25333	0.05346	0.03858	21.10%	0.02000	4.92%
137.00	Tyrosine, Post-col Ninhydrin Der (%)	15	15	0.62499	0.09659	0.61036	0.06349	0.02049	10.40%	0.02020	4.31%
137.01	Tyrosine, Pre-col OPA Der (%)	1	1	0.72500							
137.02	Tyrosine, Post-col OPA Der (%)	1	1	0.60400							
137.05	Tyrosine, Pre-col AQC Der (%)	7	6	0.63708	0.10604	0.65039	0.08772	0.04476	13.49%	0.01183	4.27%
137.99	Tyrosine, Miscellaneous (%)	1	1	0.81000							
138.00	Valine, Post-col Ninhydrin Der (%)	21	21	0.92062	0.08904	0.93465	0.04395	0.01199	4.70%	0.02195	4.04%



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138.01	Valine, Pre-col OPA Der (%)	1	1	0.99000							
138.02	Valine, Post-col OPA Der (%)	1	1	0.95850							
138.05	Valine, Pre-col AQC Der (%)	7	6	0.94692	0.06702	0.94692	0.07600	0.03878	8.03%	0.01617	4.03%
138.99	Valine, Miscellaneous (%)	2	2	1.0175	0.13789						
139.00	Taurine, Post-col Ninhydrin Der (%)	2	2	0.09900	0.05798						
139.02	Taurine, Post-col OPA Der (%)	1		0.01000							
143.00	Lysine Available, HPLC (%)	1	1	1.3275							
160.99	Fructose, Miscellaneous (%)	4	4	0.48850	0.22145	0.48850	0.22145	0.13841	45.33%	0.04450	4.46%
161.99	Galactose, Miscellaneous (%)	1	1	0.00500							
162.99	Glucose, Miscellaneous (%)	4	4	0.19225	0.06080	0.19225	0.06080	0.03800	31.63%	0.02100	5.13%
163.99	Lactose, Miscellaneous (%)	4	1								
164.99	Maltose, Miscellaneous (%)	4	3	0.59850	0.70476	0.59850	0.70476	0.50862	117.75%	0.06633	4.32%
165.99	Sucrose, Miscellaneous (%)	4	4	2.6170	0.24334	2.6170	0.24334	0.15209	9.30%	0.06450	3.46%
166.99	Raffinose, Miscellaneous (%)	2	2	0.51675	0.00247						
167.99	Stachyose, Miscellaneous (%)	2	2	1.2745	0.10536						
400.01	Water Activity, Aqualab chilled mirror (Units)	7	6	0.47695	0.02394	0.47695	0.02715	0.01385	5.69%	0.00237	
400.99	Water Activity, Miscellaneous (Units)	2	2	0.46775	0.01167						
412.01	Starch, Dietary, Enzymatic-Colorimetric (%)	1	1	8.2250							
516.00	Arsenic, Total, AA, Hydride (mg / kg (ppm))	3	3	0.24950	0.01838	0.24950	0.01838	0.01326	7.37%	0.02033	19.71%
516.43	Arsenic, Total, ICP, Microwave (mg / kg (ppm))	1	1	2.3600							
516.52	Arsenic, Total, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.23650	0.00919						
516.53	Arsenic, Total, ICP-MS, Microwave (mg / kg (ppm))	6	6	0.28824	0.04852	0.28453	0.04612	0.02353	16.21%	0.03038	19.33%
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	1	1	0.14200							
518.42	Cadmium, ICP, Open vessel (mg / kg (ppm))	1	1	0.11850							
518.52	Cadmium, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.17650	0.03041						
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	6	6	0.18900	0.02008	0.18993	0.02058	0.01050	10.84%	0.01310	20.54%
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	1	1	2.9340							
520.42	Chromium, ICP, Open vessel (mg / kg (ppm))	2	2	4.7635	0.36982						
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	1	1	6.2100							
520.52	Chromium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	1.6050							
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	2	2	3.1735	1.0982						
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	1	1	0.15050							
526.52	Lead, ICP-MS, Open vessel (mg / kg (ppm))	2	2	0.28800	0.04667						
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	6	6	0.28224	0.03057	0.28241	0.03428	0.01749	12.14%	0.01738	19.35%
529.99	Mercury, Miscellaneous (µg / kg (ppb))	1	1	9.4660							
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	1	1	5.2500							
539.52	Nickel, ICP-MS, Open vessel (mg / kg (ppm))	1	1	3.7450							
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	1	1	3.7328							
710.99	Lauric Acid (12:0), Miscellaneous (%) (w/w)	2	1	0.00255							
714.99	Myristic Acid (14:0), Miscellaneous (%) (w/w)	2	1	0.00690							

Test Material Code # 201826

Issue Date : 07/31/2018

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
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	2	2	0.49948	0.00074						
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/w))	3	2	0.01015	0.00304	0.01015	0.00304			0.00010	
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.11550							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	2	2	0.63723	0.01022						
726.02	Linoleic Acid (9c,12c-18:2), Direct Methylation by Acid-Alkali Hydrolysis & GC	1	1	1.2250							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/w))	2	2	1.4428	0.14460						
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellaneous (% (w/w))	3	3	0.81933	0.32603	0.81933	0.32603	0.23529	39.79%	0.06280	
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	1	1	0.01435							
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w))	1	1	0.01080							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5), Miscellaneous (% (w/w))	1		0.00000							
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	2	1	0.01555							
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	1		0.00055							
746.99	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5), Miscellaneous (% (w/w))	1		0.00000							
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	1	1	0.02615							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6), Miscellaneous (% (w/w))	1		0.00000							
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (w/w))	1		0.00000							
754.01	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Direct Methylation by Alkali	1	1	477.50							
754.02	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Direct Methylation by Acid-#	1	1	0.20000							
754.99	Total n-3 Polyunsaturated (Omega-3) Fatty Acids, Miscellaneous (% (w/w))	5	5	0.65500	0.15644	0.65500	0.15644	0.08745	23.88%	0.03200	
756.01	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Alkali	1	1	1,113.0							
756.02	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Direct Methylation by Acid-#	1	1	1.2950							
756.99	Total n-6 Polyunsaturated (Omega-6) Fatty Acids, Miscellaneous (% (w/w))	5	5	1.4774	0.23101	1.4774	0.23101	0.12914	15.64%	0.08760	
758.99	Total Saturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.70500							
762.99	Total Monounsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	0.71000							
766.99	Total Polyunsaturated Fatty Acids, Miscellaneous (% (w/w))	1	1	1.7300							
770.99	Total Fat (equivalent to NLEA), Miscellaneous (% (w/w))	1	1	3.3000							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	2	2	3.2395	0.11247						

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

**Method Precision Report**

# Methods Reported: 90

Rabbit Feed

# Labs Reporting: 193

Test Material Code # 201826

Issue Date : 07/31/2018

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
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	47	42	8.1477	0.31214	0.23346	0.12076	0.26285	2.85%	1.473%	3.21%	2.1766
001.99	Loss on Drying, Miscellaneous (%)	24	23	7.9962	0.56354	0.54807	0.17352	0.57488	6.83%	2.163%	7.17%	3.3130
002.01	Protein, Crude, Auto Kjel-Foss (%)	15	15	19.876	0.29660	0.28103	0.13414	0.31140	1.41%	0.675%	1.57%	2.3214
002.05	Protein, Crude, Copper, Boric Acid (%)	35	33	19.769	0.37201	0.27008	0.09239	0.28544	1.36%	0.466%	1.44%	3.0894
002.06	Protein, Crude, Combustion Nitrogen Analyzer (%)	127	118	20.147	0.29361	0.22488	0.13909	0.26442	1.12%	0.690%	1.31%	1.9010
002.11	Protein, Crude, NIR (%)	9	9	21.151	0.79954	0.77666	0.26857	0.82179	3.67%	1.270%	3.89%	3.0599
003.00	Fat, Crude, Diethyl Ether Ext., Direct (%)	15	13	3.2636	0.31426	0.21455	0.04850	0.21996	6.45%	1.458%	6.61%	4.5349
003.06	Fat, Crude, Pet Ether (%)	18	17	3.2694	0.36643	0.16485	0.11801	0.20274	5.16%	3.695%	6.35%	1.7180
003.09	Fat, Crude, Randall, Diethyl Ether Ext (%)	17	16	3.3864	0.18855	0.15286	0.11128	0.18908	4.54%	3.307%	5.62%	1.6991
003.10	Fat, Crude, Randall, Pet Ether (%)	34	32	3.0718	0.18658	0.17381	0.10180	0.20143	5.67%	3.318%	6.57%	1.9787
003.11	Fat, Crude, NIR (%)	9	9	2.8400	0.70905	0.70641	0.08641	0.71168	24.87%	3.043%	25.06%	8.2361
003.14	Fat, Crude, Ankom (%)	46	43	3.0943	0.27837	0.22988	0.14082	0.26959	7.44%	4.557%	8.72%	1.9144
004.00	Fiber, Crude, Asbestos Free (%)	19	18	19.074	0.87185	0.85992	0.20328	0.88362	4.51%	1.066%	4.63%	4.3469
004.06	Fiber, Crude, Fibertec (%)	24	21	19.627	0.96915	0.96838	0.12213	0.97605	4.94%	0.623%	4.98%	7.9917
004.07	Fiber, Crude, ANKOM (%)	65	59	19.165	1.3513	0.86063	0.24579	0.89504	4.53%	1.293%	4.71%	3.6414
005.00	Ash, 2h @ 600°C (%)	90	82	7.8284	0.23154	0.19836	0.06544	0.20888	2.54%	0.837%	2.67%	3.1920
005.05	Ash, 3h @ 550°C (%)	36	31	8.0729	0.20012	0.16106	0.06085	0.17217	2.00%	0.755%	2.14%	2.8295
005.99	Ash, Miscellaneous (%)	12	11	7.9671	0.41339	0.27288	0.07583	0.28322	3.39%	0.941%	3.51%	3.7350
008.02	Fiber, Acid Detergent, Crucible (%)	15	13	24.660	1.4112	1.4493	0.24434	1.4698	5.89%	0.993%	5.97%	6.0155
008.08	Fiber, Acid Detergent, Filter Bag - ANKOM (%)	43	40	23.748	1.7065	1.4754	0.35550	1.5176	6.25%	1.506%	6.43%	4.2689
009.07	Fiber, Neutral Detergent, AOAC -ENZ Pretreat (%)	14	13	36.402	1.7022	1.6725	0.44813	1.7315	4.59%	1.231%	4.76%	3.8638
009.09	Fiber, Neutral Detergent, Filter Bag - ANKOM (%)	41	38	35.090	2.9054	1.6004	0.45661	1.6643	4.54%	1.296%	4.72%	3.6448
010.99	Moisture, Miscellaneous (%)	20	17	8.4023	0.45832	0.40188	0.05497	0.40562	4.80%	0.657%	4.85%	7.3795
011.01	Loss on Drying, 135°C 2hr (%)	64	58	8.9729	0.31812	0.26828	0.07282	0.27799	2.98%	0.808%	3.08%	3.8172
012.00	Starch, Polarimetric (Ewers) (%)	15	14	10.918	0.75596	0.57829	0.15391	0.59843	5.36%	1.427%	5.55%	3.8881
012.01	Starch, Enzymatic-Colorimetric Method (Megazyme) (%)	11	10	8.3273	1.0615	0.78660	0.24270	0.82319	9.71%	2.994%	10.16%	3.3919
013.00	Fat, Acid Pretreat, Acid hydrolysis (%)	23	23	4.0374	0.44311	0.43771	0.09757	0.44845	10.84%	2.417%	11.11%	4.5963
013.02	Fat, Acid Pretreat, Mojonier, Bak Ext (%)	16	15	4.7504	0.88694	0.36020	0.09527	0.37259	7.92%	2.095%	8.19%	3.9110
019.00	Calcium, Ox-Mn04 Vol. (%)	11	10	1.1926	0.07363	0.06891	0.01626	0.07080	5.73%	1.353%	5.89%	4.3535
019.08	Calcium, EDTA (%)	10	9	1.2069	0.04038	0.03452	0.01963	0.03971	2.85%	1.618%	3.27%	2.0231
019.31	Calcium, AAS, Dry ash (%)	26	23	1.1990	0.08012	0.05064	0.03100	0.05937	4.17%	2.555%	4.89%	1.9152
019.41	Calcium, ICP, Dry ash (%)	32	30	1.1911	0.05132	0.04929	0.02287	0.05433	4.13%	1.918%	4.56%	2.3761
019.42	Calcium, ICP, Open vessel (%)	23	22	1.2242	0.06577	0.05947	0.04271	0.07322	4.87%	3.494%	5.99%	1.7143
019.43	Calcium, ICP, Microwave (%)	27	25	1.2109	0.06977	0.05578	0.02048	0.05942	4.58%	1.680%	4.87%	2.9014
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	13	10	47.633	17.718	4.3958	0.35455	4.4101	10.83%	0.874%	10.87%	12.438

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
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	26	25	36.581	5.1014	3.8876	1.3927	4.1295	10.45%	3.742%	11.10%	2.9651
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	23	21	38.453	3.1071	3.0861	1.0904	3.2731	8.03%	2.838%	8.52%	3.0018
022.43	Copper, ICP, Microwave (mg / kg (ppm))	21	19	36.622	3.4743	2.7552	1.0383	2.9443	7.40%	2.787%	7.90%	2.8356
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	18	17	444.27	36.713	24.413	9.5742	26.223	5.58%	2.187%	5.99%	2.7389
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	24	22	444.38	38.021	18.182	15.347	23.793	4.10%	3.461%	5.37%	1.5503
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	17	14	362.05	63.822	45.528	10.200	46.657	12.35%	2.767%	12.66%	4.5742
025.43	Iron, ICP, Microwave (mg / kg (ppm))	18	17	429.35	60.139	57.671	15.212	59.644	13.29%	3.506%	13.75%	3.9209
027.31	Magnesium, AAS, Dry ash (%)	14	13	0.29496	0.01794	0.01249	0.00472	0.01335	4.18%	1.583%	4.47%	2.8262
027.41	Magnesium, ICP, Dry ash (%)	27	26	0.29227	0.01176	0.00883	0.00682	0.01116	3.01%	2.324%	3.80%	1.6355
027.42	Magnesium, ICP, Open vessel (%)	22	20	0.28878	0.01843	0.01173	0.01068	0.01586	4.03%	3.663%	5.44%	1.4859
027.43	Magnesium, ICP, Microwave (%)	21	20	0.28592	0.01496	0.01432	0.00614	0.01558	5.01%	2.146%	5.45%	2.5385
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	15	13	150.44	8.5819	7.1981	1.4682	7.3463	4.83%	0.985%	4.93%	5.0037
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	23	21	141.46	11.225	8.6917	4.0156	9.5745	6.07%	2.803%	6.68%	2.3843
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	22	20	147.11	10.729	10.468	3.7414	11.116	7.09%	2.535%	7.53%	2.9712
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	19	18	147.98	6.8114	5.7888	5.2435	7.8105	3.90%	3.536%	5.27%	1.4896
031.01	Phosphorus, Photometric (%)	47	43	0.56631	0.05872	0.03983	0.01166	0.04150	6.97%	2.040%	7.26%	3.5587
031.41	Phosphorus, ICP, Dry ash (%)	29	27	0.57660	0.05307	0.02091	0.00990	0.02313	3.64%	1.724%	4.03%	2.3364
031.42	Phosphorus, ICP, Open vessel (%)	22	21	0.56468	0.03175	0.03000	0.01469	0.03340	5.31%	2.602%	5.92%	2.2733
031.43	Phosphorus, ICP, Microwave (%)	26	24	0.57351	0.02585	0.01974	0.01252	0.02338	3.42%	2.169%	4.05%	1.8667
032.31	Potassium, AAS, Dry ash (%)	15	14	1.4370	0.08337	0.05967	0.02677	0.06540	4.20%	1.882%	4.60%	2.4430
032.41	Potassium, ICP, Dry ash (%)	28	25	1.4281	0.08759	0.06790	0.03001	0.07424	4.73%	2.091%	5.17%	2.4736
032.42	Potassium, ICP, Open vessel (%)	22	20	1.4764	0.06765	0.05163	0.02402	0.05695	3.52%	1.637%	3.88%	2.3709
032.43	Potassium, ICP, Microwave (%)	26	22	1.4247	0.07876	0.06722	0.01938	0.06996	4.69%	1.352%	4.88%	3.6095
033.00	Salt as chloride, Sol Cl (%)	24	21	0.81220	0.10433	0.08568	0.02275	0.08865	10.70%	2.842%	11.07%	3.8969
033.01	Salt as chloride, Poten Cl (%)	31	27	0.85055	0.05442	0.02178	0.00807	0.02323	2.56%	0.948%	2.73%	2.8763
033.99	Salt, Miscellaneous (%)	12	11	0.83820	0.18586	0.08290	0.02346	0.08615	10.50%	2.970%	10.91%	3.6729
035.31	Sodium, AAS, Dry ash (%)	22	19	0.32713	0.04761	0.03791	0.01166	0.03967	11.88%	3.655%	12.43%	3.4015
035.41	Sodium, ICP, Dry ash (%)	26	24	0.31059	0.03258	0.01597	0.00634	0.01719	5.05%	2.006%	5.43%	2.7087
035.42	Sodium, ICP, Open vessel (%)	18	16	0.31614	0.01590	0.01175	0.00704	0.01369	3.74%	2.244%	4.37%	1.9458
035.43	Sodium, ICP, Microwave (%)	22	22	0.31368	0.01807	0.01686	0.00923	0.01922	5.37%	2.942%	6.13%	2.0826
036.42	Sulfur, ICP, Open vessel (%)	20	18	0.23217	0.01736	0.01421	0.00370	0.01468	6.06%	1.579%	6.26%	3.9642
036.43	Sulfur, ICP, Microwave (%)	11	10	0.23312	0.01810	0.01739	0.00658	0.01859	7.40%	2.801%	7.91%	2.8246
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	20	18	217.64	58.400	30.590	3.0821	30.745	13.37%	1.347%	13.44%	9.9753
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	26	24	226.79	12.267	9.2383	7.1085	11.657	4.10%	3.154%	5.17%	1.6398
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	20	20	227.12	13.821	12.974	6.7364	14.618	5.71%	2.966%	6.44%	2.1701
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	22	224.82	11.419	10.376	5.7424	11.859	4.60%	2.546%	5.26%	2.0652
106.02	Vitamin A, LC (KU / kg)	19	17	10.042	3.0203	3.0082	0.77794	3.1071	30.36%	7.852%	31.36%	3.9941
109.02	Vitamin E, LC (IU / kg)	16	14	59.547	20.295	15.333	3.9744	15.840	24.03%	6.229%	24.83%	3.9855
120.00	Alanine, Post-col Ninhydrin Der (%)	21	19	0.88024	0.04804	0.03923	0.00775	0.03998	4.49%	0.887%	4.58%	5.1582
121.00	Arginine, Post-col Ninhydrin Der (%)	21	19	1.2268	0.06968	0.04825	0.01950	0.05204	3.90%	1.576%	4.21%	2.6686
122.00	Aspartic, Post-col Ninhydrin Der (%)	21	20	2.0453	0.11277	0.07802	0.04026	0.08780	3.85%	1.985%	4.33%	2.1806
124.00	Cysteine/Cystine, PAO Post-col Ninhydrin (%)	21	18	0.31274	0.03295	0.01940	0.00827	0.02108	6.22%	2.653%	6.76%	2.5496
125.00	Glutamic, Post-col Ninhydrin Der (%)	21	19	3.2017	0.18723	0.11266	0.03886	0.11917	3.57%	1.231%	3.78%	3.0664

Test Material Code # 201826

Issue Date : 07/31/2018

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
126.00	Glycine, Post-col Ninhydrin Der (%)	21	21	0.96273	0.04770	0.04702	0.01132	0.04836	4.88%	1.176%	5.02%	4.2736
127.00	Histidine, Post-col Ninhydrin Der (%)	21	20	0.47269	0.02981	0.01991	0.00863	0.02170	4.17%	1.808%	4.55%	2.5147
128.00	Isoleucine, Post-col Ninhydrin Der (%)	21	18	0.78243	0.07178	0.03829	0.00734	0.03898	4.81%	0.921%	4.89%	5.3147
129.00	Leucine, Post-col Ninhydrin Der (%)	21	20	1.3654	0.08595	0.05741	0.01649	0.05974	4.16%	1.196%	4.33%	3.6219
130.00	L-Lysine, Post-col Ninhydrin Der (%)	22	21	1.0806	0.05656	0.05563	0.01579	0.05782	5.16%	1.464%	5.36%	3.6626
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	22	21	0.27643	0.02123	0.02087	0.00616	0.02176	7.57%	2.236%	7.90%	3.5319
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	21	21	0.90267	0.03158	0.02699	0.02319	0.03558	2.99%	2.569%	3.94%	1.5346
133.00	Proline, Post-col Ninhydrin Der (%)	21	20	1.0938	0.08443	0.07106	0.01512	0.07265	6.56%	1.396%	6.70%	4.8040
134.00	Serine, Post-col Ninhydrin Der (%)	21	18	0.94561	0.04607	0.03719	0.00757	0.03796	3.92%	0.798%	4.00%	5.0137
135.00	Threonine, Post-col Ninhydrin Der (%)	21	18	0.74370	0.03736	0.03107	0.00941	0.03247	4.17%	1.264%	4.36%	3.4499
137.00	Tyrosine, Post-col Ninhydrin Der (%)	15	14	0.62499	0.09659	0.04978	0.01732	0.05271	8.25%	2.869%	8.73%	3.0435
138.00	Valine, Post-col Ninhydrin Der (%)	21	19	0.92062	0.08904	0.04320	0.01833	0.04693	4.61%	1.956%	5.01%	2.5605

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