Animal Feed Scheme
Pheasant & Turkey Feed
Test Material Code # 201729

Method Summary Report

(Precision Report Follows)

 # Methods Reported: 361
 # Labs Reporting: 195
Issue Date : 10/31/2017

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	0.50000							
001.00	Loss on Drying, Vac 95°C 5 hr (%)	5	5	9.1004	0.75237	9.1004	0.75237	0.33647	8.27%	0.18680	2.87%
001.03	Loss on Drying, Low temp. methods (%)	5	4	9.6516	0.17199	9.6516	0.17199	0.08600	1.78%	0.01440	2.84%
001.05	Loss on Drying, LECO (%)	2	2	9.3800	0.14849						
001.07	Loss on Drying, 104°C 3 hr, in malt (%)	42	40	9.3674	0.60110	9.4347	0.33400	0.06601	3.54%	0.15618	2.85%
001.08	Loss on Drying, 102°C 16 hr, in meat (%)	1	1	9.6000							
001.99	Loss on Drying, Miscellaneous (%)	21	20	9.2881	0.56426	9.3244	0.54731	0.15298	5.87%	0.10442	2.86%
002.00	Protein, Crude (%)	2	2	21.020	0.62225						
002.01	Protein, Auto Kjel-Foss (%)	11	11	20.533	0.19499	20.519	0.18862	0.07109	0.92%	0.10036	2.21%
002.02	Protein, Semiauto Autoanalyzer (%)	3	3	20.721	0.13833	20.721	0.13833	0.07986	0.67%	0.08037	2.20%
002.04	Protein, Copper Catalyst (%)	6	6	21.258	1.6845	20.740	0.38801	0.19801	1.87%	0.08667	2.20%
002.05	Protein, Copper, Boric Acid (%)	27	26	20.690	0.33743	20.667	0.28974	0.07103	1.40%	0.07880	2.20%
002.06	Protein, Combustion Nitrogen Analyzer (%)	123	121	20.886	0.31258	20.880	0.25625	0.02912	1.23%	0.17735	2.19%
002.07	Protein, Block Digestion (%)	1	1	31.310							
002.08	Protein, Cu/Ti (%)	2	2	20.886	0.27712						
002.10	Protein, Block dig/distillation (%)	1	1	20.300							
002.11	Protein, NIR (%)	7	7	21.465	0.85416	21.481	0.93129	0.43999	4.34%	0.15286	2.16%
002.99	Protein, Miscellaneous (%)	6	6	20.821	1.0502	20.821	1.1909	0.60774	5.72%	0.12500	2.19%
003.00	Fat, Eth Ext., Direct (%)	13	13	3.0620	0.53782	2.9920	0.41165	0.14271	13.76%	0.13200	3.39%
003.06	Fat, Pet Ether (%)	17	17	2.9311	0.15998	2.9169	0.12876	0.03904	4.41%	0.09254	3.40%
003.09	Fat, Soxtec, Eth Ext (%)	18	18	2.9751	0.19007	2.9717	0.16554	0.04877	5.57%	0.06464	3.40%
003.10	Fat, Soxtec, Pet Ether (%)	27	27	2.7570	0.22832	2.7512	0.12723	0.03061	4.62%	0.11057	3.43%
003.11	Fat, NIR (%)	7	7	2.9314	0.54629	2.9314	0.61949	0.29268	21.13%	0.02857	3.40%
003.12	Fat, Hexane Ext (%)	6	5	2.6960	0.16615	2.6960	0.16615	0.01164	6.16%	0.02800	3.45%
003.13	Fat, Soxtec, Hexane Ext. (%)	9	8	2.9338	0.18947	2.9285	0.20287	0.08966	6.93%	0.11750	3.40%
003.14	Fat, Ankom (%)	43	42	2.7681	0.32830	2.7317	0.26720	0.05154	9.78%	0.12542	3.44%
003.99	Fat, Miscellaneous (%)	8	8	3.1375	0.22213	3.1444	0.23621	0.10439	7.51%	0.09750	3.37%
004.00	Fiber, Crude, Asbestos Free (%)	16	16	4.9593	0.25041	4.9728	0.25078	0.07837	5.04%	0.06589	3.14%
004.01	Fiber, Sing Filt (%)	1	1	5.8500							
004.03	Fiber, Fritted Glass (%)	3	3	4.6165	1.2040	4.6165	1.2040	0.69513	26.08%	0.41947	3.18%

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004.06	Fiber, Fibertec (%)	26	25	5.1130	0.32273	5.0858	0.29953	0.07488	5.89%	0.13638	3.13%
004.07	Fiber, ANKOM (%)	66	64	4.7495	0.53963	4.7470	0.44572	0.06964	9.39%	0.17196	3.16%
004.11	Fiber, NIR (%)	6	6	5.1692	1.3741	4.7233	0.36774	0.18766	7.79%	0.06167	3.17%
004.99	Fiber, Miscellaneous (%)	6	5	4.6430	0.23721	4.6430	0.23721	0.13261	5.11%	0.09400	3.17%
005.00	Ash, 2h @ 600°C (%)	87	85	7.0917	0.27154	7.0948	0.27472	0.03725	3.87%	0.10101	2.98%
005.02	Ash, LECO (%)	1	1	7.4050							
005.03	Ash, Microwave furnace (%)	1	1	6.8000							
005.04	Ash, Acid insoluble (%)	1	1	0.26000							
005.05	Ash, 3h @ 550°C (%)	31	31	7.2342	0.20264	7.2384	0.21178	0.04755	2.93%	0.05340	2.97%
005.11	Ash, NIR (%)	6	6	7.0325	2.3398	7.3322	1.9194	0.97948	26.18%	0.15167	2.96%
005.99	Ash, Miscellaneous (%)	12	12	7.3545	0.37276	7.3744	0.18790	0.06780	2.55%	0.07983	2.96%
006.00	Total sugars, As sucrose (%)	1	1	4.4950							
006.01	Total sugars, Mod. Fehling Soln (%)	1	1	4.3100							
006.99	Total sugars, Miscellaneous (%)	2	2	2.8150	3.0193						
008.02	Fiber, Acid Detergent (%)	16	15	6.5828	0.88850	6.5193	0.57340	0.18506	8.80%	0.10424	3.02%
008.05	Fiber, Acid Detergent-Hach (%)	1	1	7.2000							
008.08	Fiber, Acid Detergent, ANKOM (%)	41	40	6.3350	0.49763	6.3383	0.54307	0.10733	8.57%	0.18287	3.03%
008.99	Fiber, Acid Detergent Miscellaneous (%)	5	5	6.0020	1.9006	6.0020	1.9006	0.84997	31.67%	0.23200	3.05%
009.04	Fiber, Neutral Det-No ENZ Pretreat (%)	1	1	14.615							
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	14	13	15.651	1.9264	15.573	2.0038	0.69471	12.87%	0.19317	2.53%
009.09	Fiber, Neutral Detergent, ANKOM (%)	40	39	14.593	1.2626	14.550	1.1954	0.23926	8.22%	0.32829	2.62%
009.99	Fiber, Neutral Det Miscellaneous (%)	4	4	16.701	1.8761	16.701	1.8761	0.93805	11.23%	0.13125	2.45%
010.03	Moisture, Karl-Fischer (%)	3	3	10.068	0.28488	10.068	0.28488	0.16448	2.83%	0.13000	2.83%
010.11	Moisture, NIR (%)	5	5	10.112	0.63834	10.112	0.63834	0.28547	6.31%	0.06000	2.82%
010.99	Moisture, Miscellaneous (%)	17	16	9.7082	0.60834	9.6791	0.61976	0.19367	6.40%	0.06723	2.84%
011.01	Loss on Drying, 135°C 2hr (%)	61	60	10.252	0.62183	10.336	0.40670	0.06563	3.93%	0.11943	2.81%
011.02	Loss on Drying, 130°C for 2 hours (%)	4	4	10.230	0.64541	10.230	0.64541	0.32271	6.31%	0.20000	2.82%
011.99	Loss on Drying, High Temp. Methods Miscellaneo	3	3	10.278	0.63746	10.278	0.63746	0.36804	6.20%	0.15667	2.82%
012.00	Starch, Polarimetric (Ewers) (%)	11	11	34.024	1.1381	34.171	0.89444	0.33710	2.62%	0.47127	1.71%
012.01	Starch, Megazyme (%)	10	10	32.299	3.4436	32.690	1.2107	0.47858	3.70%	0.64003	1.75%
012.03	Starch, Enzymatic (%)	6	6	33.685	1.8511	33.685	2.0992	1.0712	6.23%	0.83417	1.72%
012.04	Starch, YSI Analyzer (%)	6	6	31.801	1.0439	31.801	1.1837	0.60408	3.72%	0.50167	1.77%
012.11	Starch, NIR (%)	4	4	35.178	1.7247	35.178	1.7247	0.86235	4.90%	0.12000	1.69%
013.00	Fat, Acid hydrolysis (%)	19	19	3.5734	0.48059	3.5753	0.50653	0.14526	14.17%	0.10548	3.30%
013.02	Fat, Mojonnier, Bak Ext (%)	17	17	4.2723	0.37515	4.2592	0.33784	0.10242	7.93%	0.08187	3.22%
013.08	Fat, Roese-Gottlieb Modified (%)	1	1	2.1683							
013.10	Fat, Soxtec-Acid Hydrolysis (%)	7	7	3.3517	0.66772	3.3517	0.75720	0.35774	22.59%	0.16976	3.33%
013.13	Fat, Ankom- Acid Hydrolysis (%)	6	6	4.4394	0.91065	4.3591	0.83942	0.42836	19.26%	0.13792	3.20%

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015.41	Aluminum, ICP, Dry ash (mg / kg (ppm))	4	4	108.86	21.770	108.86	21.770	10.885	20.00%	5.9900	7.90%
015.42	Aluminum, ICP, Open vessel (mg / kg (ppm))	1	1	107.00							
015.43	Aluminum, ICP, Microwave (mg / kg (ppm))	6	6	119.15	16.864	119.15	19.124	9.7593	16.05%	9.0048	7.79%
015.52	Aluminum, ICP-MS, Open vessel (mg / kg (ppm))	1	1	89.161							
017.41	Boron, ICP, Dry ash (mg / kg (ppm))	4	4	12.246	2.6976	12.246	2.6976	1.3488	22.03%	0.76250	10.97%
017.42	Boron, ICP, Open vessel (mg / kg (ppm))	5	5	11.482	1.2721	11.482	1.2721	0.56890	11.08%	0.54838	11.08%
017.43	Boron, ICP, Microwave (mg / kg (ppm))	5	3	10.617	0.57951	10.617	0.57951	0.33458	5.46%	0.06667	11.21%
017.53	Boron, ICP-MS, Microwave (mg / kg (ppm))	1	1	11.250							
019.00	Calcium, Ox-Mn04 Vol. (%)	10	9	1.5010	0.10580	1.4934	0.10183	0.04243	6.82%	0.02422	3.77%
019.02	Calcium, Hach Method (%)	1	1	1.7950							
019.03	Calcium, Semiauto (Autoanalyzer) (%)	1	1	1.5807							
019.08	Calcium, EDTA (%)	8	7	1.5223	0.02937	1.5223	0.03331	0.01574	2.19%	0.00971	3.75%
019.09	Calcium, Ion-selective electrode (%)	1	1	1.7205							
019.31	Calcium, AAS, Dry ash (%)	21	21	1.5316	0.20629	1.5534	0.10601	0.02892	6.82%	0.03034	3.74%
019.32	Calcium, AAS, Open vessel (%)	3	3	1.5900	0.12816	1.5900	0.12816	0.07399	8.06%	0.04667	3.73%
019.33	Calcium, AAS, Microwave (%)	2	2	1.5525	0.13789						
019.41	Calcium, ICP, Dry ash (%)	30	30	1.5407	0.06910	1.5420	0.05488	0.01252	3.56%	0.03496	3.75%
019.42	Calcium, ICP, Open vessel (%)	22	22	1.5556	0.10859	1.5635	0.08340	0.02223	5.33%	0.05294	3.74%
019.43	Calcium, ICP, Microwave (%)	28	26	1.5559	0.10038	1.5428	0.07511	0.01841	4.87%	0.03193	3.75%
019.44	Calcium, ICP, Dry ash (%)	2	2	1.5655	0.12092						
019.52	Calcium, ICP-MS, Open vessel (%)	3	3	1.5908	0.00563	1.5908	0.00563	0.00325	0.35%	0.08000	3.73%
019.53	Calcium, ICP-MS, Microwave (%)	3	3	1.6149	0.03931	1.6149	0.03931	0.02270	2.43%	0.03757	3.72%
019.99	Calcium, Miscellaneous (%)	6	6	1.5105	0.13942	1.5141	0.14968	0.07638	9.89%	0.02733	3.76%
021.31	Cobalt, AAS, Dry ash (mg / kg (ppm))	4	4	0.87125	0.17853	0.87125	0.17853	0.08927	20.49%	0.09250	16.33%
021.34	Cobalt, AAS, Graphite furnace (mg / kg (ppm))	1	1	0.83000							
021.41	Cobalt, ICP, Dry ash (mg / kg (ppm))	4	4	0.71375	0.18395	0.71375	0.18395	0.09198	25.77%	0.04050	16.83%
021.42	Cobalt, ICP, Open vessel (mg / kg (ppm))	3	3	0.68508	0.13819	0.68508	0.13819	0.07978	20.17%	0.11243	16.93%
021.43	Cobalt, ICP, Microwave (mg / kg (ppm))	7	7	0.78441	0.14571	0.76571	0.11894	0.05619	15.53%	0.06444	16.65%
021.52	Cobalt, ICP-MS, Open vessel (mg / kg (ppm))	3	3	0.59027	0.02335	0.59027	0.02335	0.01348	3.96%	0.09207	17.32%
021.53	Cobalt, ICP-MS, Microwave (mg / kg (ppm))	3	3	0.66713	0.12942	0.66713	0.12942	0.07472	19.40%	0.03300	17.00%
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	11	11	17.749	2.2045	17.688	2.3645	0.89116	13.37%	0.54829	10.38%
022.32	Copper, AAS, Open vessel (mg / kg (ppm))	3	3	42.550	39.125	42.550	39.125	22.589	91.95%	3.3000	9.10%
022.33	Copper, AAS, Microwave (mg / kg (ppm))	1	1	17.753							
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	21	20	16.803	3.0273	16.760	2.5258	0.70598	15.07%	0.79742	10.47%
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	22	21	18.742	3.2247	18.064	1.7782	0.48504	9.84%	0.64197	10.35%
022.43	Copper, ICP, Microwave (mg / kg (ppm))	23	22	17.423	1.1648	17.383	1.1483	0.30603	6.61%	0.94942	10.41%
022.44	Copper, ICP, Dry ash (mg / kg (ppm))	1	1	18.050							
022.52	Copper, ICP-MS, Open vessel (mg / kg (ppm))	1	1	17.924							

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022.53	Copper, ICP-MS, Microwave (mg / kg (ppm))	3	3	17.400	1.6039	17.400	1.6039	0.92601	9.22%	1.3333	10.41%
022.99	Copper, Miscellaneous (mg / kg (ppm))	3	3	17.183	0.27538	17.183	0.27538	0.19472	1.60%	0.36667	10.43%
023.01	Fluorine, Ion Sel Elect (mg / kg (ppm))	1	1	13.700							
024.03	Iodine, Ion-selective electrode (mg / kg (ppm))	1	1	1.1000							
024.53	Iodine, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.6850							
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	14	14	247.12	49.494	238.76	31.464	10.511	13.18%	7.6554	7.02%
025.32	Iron, AAS, Open vessel (mg / kg (ppm))	3	3	262.25	22.055	262.25	22.055	12.733	8.41%	12.567	6.92%
025.33	Iron, AAS, Microwave (mg / kg (ppm))	2	2	273.36	59.769						
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	23	22	226.42	18.552	226.98	19.833	5.2854	8.74%	7.5716	7.07%
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	18	227.97	22.215	229.81	20.123	5.9287	8.76%	8.4922	7.06%
025.43	Iron, ICP, Microwave (mg / kg (ppm))	23	23	237.01	25.843	234.13	20.757	5.4103	8.87%	11.396	7.04%
025.52	Iron, ICP-MS, Open vessel (mg / kg (ppm))	2	2	194.67	44.640						
025.53	Iron, ICP-MS, Microwave (mg / kg (ppm))	1	1	237.50							
025.99	Iron, Miscellaneous (mg / kg (ppm))	4	4	229.34	9.2727	229.34	9.2727	4.6364	4.04%	5.0655	7.06%
027.31	Magnesium, AAS, Dry ash (%)	18	17	0.20696	0.01655	0.20793	0.01125	0.00341	5.41%	0.00454	5.07%
027.32	Magnesium, AAS, Open vessel (%)	2	2	0.20000	0.02828						
027.33	Magnesium, AAS, Microwave (%)	1	1	0.23000							
027.41	Magnesium, ICP, Dry ash (%)	24	24	0.21038	0.01039	0.21022	0.01069	0.00273	5.08%	0.00600	5.06%
027.42	Magnesium, ICP, Open vessel (%)	19	18	0.21457	0.01447	0.21655	0.00992	0.00292	4.58%	0.00344	5.04%
027.43	Magnesium, ICP, Microwave (%)	26	26	0.21231	0.01452	0.21189	0.01482	0.00363	6.99%	0.00960	5.05%
027.44	Magnesium, ICP, Dry ash (%)	2	2	0.21425	0.00247						
027.52	Magnesium, ICP-MS, Open vessel (%)	2	2	0.22450	0.01888						
027.53	Magnesium, ICP-MS, Microwave (%)	3	3	0.21688	0.00829	0.21688	0.00829	0.00479	3.82%	0.01110	5.03%
027.99	Magnesium, Miscellaneous (%)	5	4	0.21125	0.01702	0.21125	0.01702	0.00851	8.06%	0.00750	5.05%
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	14	14	113.79	14.454	110.87	5.4531	1.8218	4.92%	3.5283	7.88%
028.32	Manganese, AAS, Open vessel (mg / kg (ppm))	4	4	117.72	10.916	117.72	10.916	5.4580	9.27%	11.888	7.80%
028.33	Manganese, AAS, Microwave (mg / kg (ppm))	2	2	103.32	1.6645						
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	22	21	103.40	9.1493	104.20	8.5443	2.3306	8.20%	3.7983	7.95%
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	20	20	109.94	10.150	109.54	10.064	2.8130	9.19%	3.9248	7.89%
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	23	22	109.75	7.4232	109.81	8.1129	2.1621	7.39%	4.4709	7.89%
028.44	Manganese, ICP, Dry ash (mg / kg (ppm))	2	2	106.72	6.0599						
028.52	Manganese, ICP-MS, Open vessel (mg / kg (ppm)	2	2	103.54	2.3181						
028.53	Manganese, ICP-MS, Microwave (mg / kg (ppm))	2	2	109.28	5.3387						
028.99	Manganese, Miscellaneous (mg / kg (ppm))	5	5	107.56	8.4900	107.56	8.4900	3.7968	7.89%	4.6260	7.91%
031.00	Phosphorus, Vol (%)	2	2	0.76250	0.01768						
031.01	Phosphorus, Photometric (%)	34	33	0.73678	0.02925	0.74043	0.02368	0.00515	3.20%	0.01846	4.18%
031.02	Phosphorus, GQMP (AOAC 935.13-Extraction) (%	3	3	0.76250	0.00661	0.76250	0.00661	0.00467	0.87%	0.00167	4.17%
031.03	Phosphorus, Autoanalyzer (%)	3	3	0.75337	0.00330	0.75337	0.00330	0.00191	0.44%	0.00767	4.17%

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031.06	Phosphorus, Hach Method (%)	1	1	0.59500							
031.41	Phosphorus, ICP, Dry ash (%)	29	28	0.74191	0.03180	0.74196	0.03221	0.00761	4.34%	0.01236	4.18%
031.42	Phosphorus, ICP, Open vessel (%)	22	22	0.74923	0.04569	0.74734	0.04705	0.01254	6.30%	0.02684	4.18%
031.43	Phosphorus, ICP, Microwave (%)	27	26	0.75484	0.04187	0.75764	0.03962	0.00971	5.23%	0.01776	4.17%
031.44	Phosphorus, ICP, Dry ash (%)	2	2	0.76100	0.01061						
031.52	Phosphorus, ICP-MS, Open vessel (%)	2	2	0.79640	0.05671						
031.53	Phosphorus, ICP-MS, Microwave (%)	2	2	4,220.4	5,967.4						
031.99	Phosphorus, Miscellaneous (%)	6	6	0.69467	0.05521	0.69467	0.06261	0.03195	9.01%	0.01000	4.23%
032.02	Potassium, Flame Emission (%)	1	1	1.0600							
032.31	Potassium, AAS, Dry ash (%)	18	18	1.0582	0.10799	1.0414	0.05801	0.01709	5.57%	0.02175	3.98%
032.32	Potassium, AAS, Open vessel (%)	2	2	1.0400	0.07071						
032.41	Potassium, ICP, Dry ash (%)	25	24	1.0350	0.08131	1.0423	0.05649	0.01441	5.42%	0.01993	3.97%
032.42	Potassium, ICP, Open vessel (%)	19	19	1.0886	0.05592	1.0870	0.05978	0.01714	5.50%	0.02513	3.95%
032.43	Potassium, ICP, Microwave (%)	25	24	1.0473	0.07958	1.0564	0.05369	0.01370	5.08%	0.03184	3.97%
032.44	Potassium, ICP, Dry ash (%)	2	2	1.0635	0.03323						
032.52	Potassium, ICP-MS, Open vessel (%)	2	2	1.1148	0.00689						
032.53	Potassium, ICP-MS, Microwave (%)	2	2	1.1260	0.03394						
032.99	Potassium, Miscellaneous (%)	3	3	1.0312	0.08360	1.0312	0.08360	0.05911	8.11%	0.00700	3.98%
033.00	Salt as chloride, Sol Cl (%)	18	18	0.44877	0.04113	0.44955	0.04371	0.01288	9.72%	0.01194	4.51%
033.01	Salt as chloride, Poten Cl (%)	34	32	0.47620	0.03682	0.48172	0.01446	0.00320	3.00%	0.00658	4.46%
033.03	Salt as chloride, Quantab (%)	5	5	0.44700	0.01565	0.44700	0.01565	0.00700	3.50%	0.01400	4.52%
033.05	Salt as chloride, Ion Sel Electrode (%)	3	3	0.47417	0.03467	0.47417	0.03467	0.02002	7.31%	0.00767	4.48%
033.99	Salt, Miscellaneous (%)	10	10	0.40470	0.09540	0.40470	0.10819	0.04276	26.73%	0.02580	4.58%
034.01	Selenium, Fluor (mg / kg (ppm))	2	2	0.42075	0.04349						
034.04	Selenium, AA, Hydride (mg / kg (ppm))	5	5	0.43475	0.04248	0.43475	0.04248	0.01900	9.77%	0.03590	18.13%
034.41	Selenium, ICP, Dry ash (mg / kg (ppm))	2	2	0.46125	0.08309						
034.43	Selenium, ICP, Microwave (mg / kg (ppm))	2	2	0.41430	0.02927						
034.52	Selenium, ICP-MS, Open vessel (mg / kg (ppm))	4	4	0.47368	0.01525	0.47368	0.01525	0.00763	3.22%	0.04430	17.90%
034.53	Selenium, ICP-MS, Microwave (mg / kg (ppm))	4	4	0.56695	0.21448	0.56695	0.21448	0.10724	37.83%	0.06445	17.42%
035.01	Sodium, Ion-selective electrode (%)	2	2	0.49525	0.46704						
035.05	Sodium, Flame Emission (%)	2	2	0.17500	0.03536						
035.31	Sodium, AAS, Dry ash (%)	18	18	0.17706	0.10412	0.15675	0.02177	0.00642	13.89%	0.00851	5.29%
035.32	Sodium, AAS, Open vessel (%)	2	2	0.15000	0.00707						
035.33	Sodium, AAS, Microwave (%)	1	1	0.16050							
035.41	Sodium, ICP, Dry ash (%)	26	26	0.15556	0.01541	0.15474	0.01204	0.00295	7.78%	0.00930	5.30%
035.42	Sodium, ICP, Open vessel (%)	17	17	0.15143	0.01111	0.15019	0.00952	0.00288	6.34%	0.00484	5.32%
035.43	Sodium, ICP, Microwave (%)	23	22	0.15205	0.02742	0.14640	0.01338	0.00356	9.14%	0.00864	5.34%
035.52	Sodium, ICP-MS, Open vessel (%)	2	2	0.16573	0.01206						

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035.53	Sodium, ICP-MS, Microwave (%)	2	2	0.14825	0.00177						
035.99	Sodium, Miscellaneous (%)	5	4	0.15013	0.00817	0.15013	0.00817	0.00472	5.44%	0.00025	5.32%
036.04	Sulfur, LECO (%)	3	3	0.36333	0.04072	0.36333	0.04072	0.02351	11.21%	0.01333	4.66%
036.42	Sulfur, ICP, Open vessel (%)	15	15	0.34912	0.02384	0.34909	0.02697	0.00871	7.73%	0.00910	4.69%
036.43	Sulfur, ICP, Microwave (%)	13	13	0.34748	0.02729	0.34985	0.02248	0.00779	6.43%	0.01302	4.68%
036.52	Sulfur, ICP-MS, Open vessel (%)	2	2	1,764.7	2,495.1						
036.99	Sulfur, Miscellaneous (%)	2	2	0.37050	0.03606						
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	17	16	113.10	11.742	112.87	10.426	3.2580	9.24%	2.8660	7.85%
037.32	Zinc, AAS, Open vessel (mg / kg (ppm))	3	3	136.63	20.800	136.63	20.800	12.009	15.22%	6.8667	7.63%
037.33	Zinc, AAS, Microwave (mg / kg (ppm))	2	2	119.96	27.289						
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	23	22	109.68	23.720	114.70	9.0553	2.4132	7.89%	3.4403	7.84%
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	20	19	114.30	13.721	114.78	14.523	4.1647	12.65%	3.8132	7.83%
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	22	114.93	9.2304	114.29	8.6681	2.3101	7.58%	6.2676	7.84%
037.44	Zinc, ICP, Dry ash (mg / kg (ppm))	2	2	114.52	1.3315						
037.52	Zinc, ICP-MS, Open vessel (mg / kg (ppm))	2	2	90.656	8.4225						
037.53	Zinc, ICP-MS, Microwave (mg / kg (ppm))	2	2	115.00	21.213						
037.99	Zinc, Miscellaneous (mg / kg (ppm))	6	6	113.22	12.014	113.22	13.624	6.9524	12.03%	3.7383	7.85%
038.41	Molybdenum, ICP, Dry ash (mg / kg (ppm))	2	2	1.9950	0.21920						
038.42	Molybdenum, ICP, Open vessel (mg / kg (ppm))	4	4	2.0766	0.23568	2.0766	0.23568	0.11784	11.35%	0.19265	14.33%
038.43	Molybdenum, ICP, Microwave (mg / kg (ppm))	7	7	1.8912	0.23692	1.8912	0.26867	0.12693	14.21%	0.12104	14.53%
038.52	Molybdenum, ICP-MS, Open vessel (mg / kg (ppm	2	2	2.0106	0.14231						
038.53	Molybdenum, ICP-MS, Microwave (mg / kg (ppm))	3	3	1.9116	0.43137	1.9116	0.43137	0.30502	22.57%	0.23630	14.51%
040.42	Barium, ICP, Open vessel (mg / kg (ppm))	1	1	13.230							
040.53	Barium, ICP-MS, Microwave (mg / kg (ppm))	1	1	12.930							
042.00	Chloride, Titrimetric (%)	3	3	0.31250	0.01750	0.31250	0.01750	0.01010	5.60%	0.01353	4.76%
042.02	Chloride, Ion Chromatography (%)	1	1	0.31500							
101.00	Choline Chloride, Microbiological (mg / kg (ppm))	1	1	2,170.0							
101.01	Choline Chloride, Chem (mg / kg (ppm))	2	2	1,186.8	544.83						
101.02	Choline Chloride, LC (mg / kg (ppm))	1	1	1,190.0							
102.01	Niacin, Microbiological (mg / kg (ppm))	1	1	108.00							
102.02	Niacin, LC (mg / kg (ppm))	1	1	23.390							
103.01	Pantothenic Acid, Microbiological (mg / kg (ppm))	1	1	16.500							
104.00	Riboflavin, Fluorometric (mg / kg (ppm))	1	1	18.950							
104.03	Riboflavin, LC (mg / kg (ppm))	3	3	15.137	2.5663	15.137	2.5663	1.8146	16.95%	0.63333	10.63%
105.00	Thiamine, LC (mg / kg (ppm))	3	3	2.6635	0.75160	2.6635	0.75160	0.43394	28.22%	0.17567	13.80%
105.01	Thiamine, Fluorometer (mg / kg (ppm))	1	1	6.3250							
106.00	Vitamin A, Color (KU / kg)	1	1	26.930							
106.01	Vitamin A, UV (KU / kg)	1	1	18.350							

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106.02	Vitamin A, LC (KU / kg)	23	22	18.328	8.6903	16.769	2.9111	0.77582	17.36%	1.1638	
107.00	Vitamin B12, Microbiological (µg / kg (ppb))	1	1	29.050							
107.99	Vitamin B12, Miscellaneous (µg / kg (ppb))	1	1	102.75							
108.01	Vitamin D3, LC, AOAC (KU / kg)	1	1	3.8915							
108.02	Vitamin D3, LC (KU / kg)	5	5	3.8580	1.0860	3.8580	1.0860	0.48567	28.15%	0.78800	
108.99	Vitamin D3, Miscellaneous (KU / kg)	1	1	4.1950							
109.02	Vitamin E, LC (IU/kg)	14	13	52.369	23.602	46.988	7.7782	2.6966	16.55%	1.9806	
109.99	Vitamin E, Miscellaneous (IU/kg)	1	1	58.250							
112.01	Pyridoxine, LC (µg / g)	1	1	10.540							
113.01	Folic Acid, Micro (mg / kg (ppm))	1	1	10.750							
113.02	Folic acid, LC (mg / kg (ppm))	1	1	12.450							
114.01	Biotin, Microbiological (mg / kg (ppm))	2	2	0.65175	0.03854						
114.99	Biotin, Miscellaneous (mg / kg (ppm))	1	1	0.98990							
120.00	Alanine, Post-col Ninhydrin Der (%)	19	19	1.0318	0.03271	1.0296	0.03010	0.00863	2.92%	0.01600	3.98%
120.02	Alanine, Post-col OPA Der (%)	1	1	1.0295							
120.05	Alanine, Pre-col AQC Der (%)	3	3	1.0232	0.06350	1.0232	0.06350	0.03666	6.21%	0.01500	3.99%
120.99	Alanine, Miscellaneous (%)	1	1	1.0350							
121.00	Arginine, Post-col Ninhydrin Der (%)	19	18	1.3080	0.05643	1.3020	0.04928	0.01452	3.78%	0.02313	3.84%
121.02	Arginine, Post-col OPA Der (%)	1	1	1.3015							
121.05	Arginine, Pre-col AQC Der (%)	3	3	1.3013	0.08429	1.3013	0.08429	0.04866	6.48%	0.04933	3.84%
122.00	Aspartic, Post-col Ninhydrin Der (%)	19	19	1.9658	0.05976	1.9598	0.04619	0.01325	2.36%	0.02478	3.61%
122.02	Aspartic, Post-col OPA Der (%)	1	1	2.0135							
122.05	Aspartic, Pre-col AQC Der (%)	3	3	1.9582	0.06854	1.9582	0.06854	0.03957	3.50%	0.03433	3.61%
122.99	Aspartic, Miscellaneous (%)	2	2	2.1900	0.56569						
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	19	18	0.31298	0.02438	0.31074	0.01983	0.00584	6.38%	0.00566	4.77%
124.02	Cysteine/Cystine, PAO Post-col OPA Der (%)	1	1	0.32050							
124.05	Cysteine/Cystine, PAO Pre-col AQC Der (%)	2	2	0.32750	0.01768						
124.99	Cysteine/Cystine, Miscellaneous (%)	1	1	0.29000							
125.00	Glutamic, Post-col Ninhydrin Der (%)	19	18	3.4076	0.16665	3.3835	0.10204	0.03006	3.02%	0.04084	3.33%
125.02	Glutamic, Post-col OPA Der (%)	1	1	3.4055							
125.05	Glutamic, Pre-col AQC Der (%)	3	3	3.3845	0.10070	3.3845	0.10070	0.05814	2.98%	0.06367	3.33%
125.99	Glutamic, Miscellaneous (%)	2	2	4.2450	1.9728						
126.00	Glycine, Post-col Ninhydrin Der (%)	19	18	1.0449	0.03448	1.0427	0.02956	0.00871	2.83%	0.01129	3.97%
126.02	Glycine, Post-col OPA Der (%)	1	1	1.0700							
126.05	Glycine, Pre-col AQC Der (%)	3	3	1.0885	0.05598	1.0885	0.05598	0.03232	5.14%	0.03500	3.95%
126.99	Glycine, Miscellaneous (%)	2	2	1.0850	0.08485						
127.00	Histidine, Post-col Ninhydrin Der (%)	18	18	0.50520	0.05787	0.50029	0.01688	0.00497	3.37%	0.00741	4.44%
127.02	Histidine, Post-col OPA Der (%)	1	1	0.49400							

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127.05	Histidine, Pre-col AQC Der (%)	3	3	0.51117	0.01979	0.51117	0.01979	0.01143	3.87%	0.01033	4.42%
127.99	Histidine, Miscellaneous (%)	1	1	0.46000							
128.00	Isoleucine, Post-col Ninhydrin Der (%)	19	18	0.78622	0.05497	0.78862	0.03564	0.01050	4.52%	0.01070	4.15%
128.02	Isoleucine, Post-col OPA Der (%)	1	1	0.80650							
128.05	Isoleucine, Pre-col AQC Der (%)	3	3	0.77700	0.03764	0.77700	0.03764	0.02173	4.84%	0.01400	4.15%
128.99	Isoleucine, Miscellaneous (%)	1	1	0.76500							
129.00	Leucine, Post-col Ninhydrin Der (%)	19	18	1.5320	0.06403	1.5294	0.03988	0.01175	2.61%	0.02398	3.75%
129.02	Leucine, Post-col OPA Der (%)	1	1	1.5480							
129.05	Leucine, Pre-col AQC Der (%)	3	3	1.5197	0.05814	1.5197	0.05814	0.03357	3.83%	0.03067	3.76%
129.99	Leucine, Miscellaneous (%)	1	1	1.5250							
130.00	L-Lysine, Post-col Ninhydrin Der (%)	21	21	1.0842	0.05306	1.0872	0.05222	0.01425	4.80%	0.01553	3.95%
130.02	L-Lysine, Post-col OPA Der (%)	1	1	1.0925							
130.05	L-Lysine, Pre-col AQC Der (%)	5	5	1.0916	0.06244	1.0916	0.06244	0.02792	5.72%	0.03040	3.95%
130.99	L-Lysine, Miscellaneous (%)	3	3	1.1867	0.06048	1.1867	0.06048	0.03492	5.10%	0.04667	3.90%
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	19	19	0.43542	0.02244	0.43293	0.01733	0.00497	4.00%	0.00932	4.54%
131.02	Methionine, PAO Post-col OPA Der (%)	1	1	0.40850							
131.05	Methionine, PAO Pre-col AQC Der (%)	4	3	0.40583	0.05918	0.40583	0.05918	0.04185	14.58%	0.00433	4.58%
131.99	Methionine, Miscellaneous (%)	3	3	0.43500	0.00866	0.43500	0.00866	0.00612	1.99%	0.01000	4.53%
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	19	18	0.91969	0.03341	0.92049	0.03606	0.01062	3.92%	0.01186	4.05%
132.02	Phenylalanine, Post-col OPA Der (%)	1	1	0.91750							
132.05	Phenylalanine, Pre-col AQC Der (%)	3	3	0.90967	0.02550	0.90967	0.02550	0.01472	2.80%	0.02200	4.06%
132.99	Phenylalanine, Miscellaneous (%)	1	1	0.90500							
133.00	Proline, Post-col Ninhydrin Der (%)	19	19	1.2212	0.08106	1.2165	0.08158	0.02339	6.71%	0.03634	3.88%
133.05	Proline, Pre-col AQC Der (%)	3	3	1.2933	0.13605	1.2933	0.13605	0.07855	10.52%	0.02867	3.85%
133.99	Proline, Miscellaneous (%)	1	1	1.1900							
134.00	Serine, Post-col Ninhydrin Der (%)	19	19	0.93783	0.04850	0.93890	0.03424	0.00982	3.65%	0.03635	4.04%
134.02	Serine, Post-col OPA Der (%)	1	1	0.86500							
134.05	Serine, Pre-col AQC Der (%)	3	3	0.94333	0.04509	0.94333	0.04509	0.02603	4.78%	0.01600	4.03%
134.99	Serine, Miscellaneous (%)	1	1	0.85500							
135.00	Threonine, Post-col Ninhydrin Der (%)	19	19	0.75142	0.03025	0.75024	0.02518	0.00722	3.36%	0.01211	4.18%
135.02	Threonine, Post-col OPA Der (%)	1	1	0.76000							
135.05	Threonine, Pre-col AQC Der (%)	3	3	0.75317	0.01061	0.75317	0.01061	0.00613	1.41%	0.00567	4.17%
135.99	Threonine, Miscellaneous (%)	2	2	0.82000	0.09192						
136.00	Tryptophan, Alka-Hydrol Post-col Ninhyd (%)	7	7	0.23501	0.02982	0.23501	0.03381	0.01598	14.39%	0.00454	4.97%
136.01	Tryptophan, Alka-Hydrol Rev Phase LC UV (%)	1	1	0.25450							
136.02	Tryptophan, Alka-Hydrol Post-col OPA De (%)	1	1	0.23500							
136.03	Tryptophan, Alka-Hydrol + IS RP LC Fl (%)	7	6	0.24483	0.00426	0.24483	0.00483	0.00247	1.97%	0.00167	4.94%
136.99	Tryptophan, Miscellaneous (%)	1	1	0.22500							

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137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	13	0.59779	0.04563	0.59726	0.05061	0.01755	8.47%	0.01484	4.32%
137.02	Tyrosine, Post-col OPA Der (%)	1	1	0.64550							
137.05	Tyrosine, Pre-col AQC Der (%)	3	3	0.62033	0.14286	0.62033	0.14286	0.08248	23.03%	0.01800	4.30%
137.99	Tyrosine, Miscellaneous (%)	1	1	0.56500							
138.00	Valine, Post-col Ninhydrin Der (%)	19	19	0.92233	0.05786	0.92533	0.04557	0.01307	4.93%	0.01286	4.05%
138.02	Valine, Post-col OPA Der (%)	1	1	0.96850							
138.05	Valine, Pre-col AQC Der (%)	3	3	0.93433	0.02759	0.93433	0.02759	0.01593	2.95%	0.02067	4.04%
138.99	Valine, Miscellaneous (%)	1	1	0.91500							
139.00	Taurine, Post-col Ninhydrin Der (%)	1	1	0.19000							
139.02	Taurine, Post-col OPA Der (%)	1		0.00000							
160.99	Fructose, Miscellaneous (%)	4	4	0.32575	0.15373	0.32575	0.15373	0.07687	47.19%	0.01850	4.74%
161.99	Galactose, Miscellaneous (%)	1		0.00000							
162.99	Glucose, Miscellaneous (%)	4	3	0.21133	0.11463	0.21133	0.11463	0.06618	54.24%	0.17067	5.05%
163.99	Lactose, Miscellaneous (%)	2		0.00000							
164.99	Maltose, Miscellaneous (%)	2	1	0.20750							
165.99	Sucrose, Miscellaneous (%)	3	3	3.0132	0.12029	3.0132	0.12029	0.06945	3.99%	0.14233	3.39%
166.99	Raffinose, Miscellaneous (%)	2	2	0.64725	0.17289						
167.99	Stachyose, Miscellaneous (%)	2	2	1.2640	0.14708						
345.00	Amprolium, Colorimetric (mg/kg (ppm))	7	7	100.81	11.866	101.26	12.421	5.8683	12.27%	3.8857	7.98%
345.02	Amprolium, LC (UV or FL) (mg/kg (ppm))	8	7	97.080	6.3963	97.080	7.2534	3.4269	7.47%	0.94881	8.03%
345.03	Amprolium, LC-MS (mg/kg (ppm))	1	1	93.500							
345.99	Amprolium, Miscellaneous (mg/kg (ppm))	1	1	101.00							
348.01	Bacitracin, Plate, methanol extraction (mg/kg (ppn	4	4	37.506	14.050	37.506	14.050	7.0250	37.46%	2.9145	9.27%
348.05	Bacitracin, LC-MS (mg/kg (ppm))	1	1	20.400							
348.06	Bacitracin, LC-MS/MS (mg/kg (ppm))	1	1	106.50							
400.01	Water activity, Aqualab chilled mirror (Units)	7	7	0.57989	0.02455	0.57900	0.02577	0.01218	4.45%	0.00327	
400.99	Water activity, Miscellaneous (Units)	2	2	0.55775	0.01450						
412.01	Dietary Starch, Enzymatic-Colorimetric (%)	1	1	31.030							
516.00	Arsenic, total, AA, Hydride (mg / kg (ppm))	2	2	0.12650	0.04738						
516.52	Arsenic, total, ICP-MS, Open vessel (mg / kg (ppn	3	3	0.16745	0.03090	0.16745	0.03090	0.01784	18.45%	0.00963	20.93%
516.53	Arsenic, total, ICP-MS, Microwave (mg / kg (ppm)	3	3	0.18967	0.01125	0.18967	0.01125	0.00650	5.93%	0.01787	20.54%
518.41	Cadmium, ICP, Dry ash (mg / kg (ppm))	2	2	0.04650	0.05869						
518.52	Cadmium, ICP-MS, Open vessel (mg / kg (ppm))	3	3	0.07795	0.00691	0.07795	0.00691	0.00399	8.86%	0.00290	22.00%
518.53	Cadmium, ICP-MS, Microwave (mg / kg (ppm))	3	3	0.07362	0.00819	0.07362	0.00819	0.00473	11.12%	0.00637	22.00%
520.41	Chromium, ICP, Dry ash (mg / kg (ppm))	2	2	1.6800	0.36062						
520.42	Chromium, ICP, Open vessel (mg / kg (ppm))	2	2	2.3043	0.25551						
520.43	Chromium, ICP, Microwave (mg / kg (ppm))	2	2	1.9600	0.98995						
520.52	Chromium, ICP-MS, Open vessel (mg / kg (ppm))	1	1	1.2373							

Test Material Code # 201729 **Issue Date : 10/31/2017**

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
520.53	Chromium, ICP-MS, Microwave (mg / kg (ppm))	2	2	2.4385	0.34086						
526.41	Lead, ICP, Dry ash (mg / kg (ppm))	3	3	0.29283	0.17454	0.29283	0.17454	0.10077	59.60%	0.01367	19.24%
526.52	Lead, ICP-MS, Open vessel (mg / kg (ppm))	3	3	0.26143	0.02441	0.26143	0.02441	0.01409	9.34%	0.00873	19.58%
526.53	Lead, ICP-MS, Microwave (mg / kg (ppm))	4	4	0.22166	0.03957	0.22166	0.03957	0.01979	17.85%	0.01303	20.07%
539.31	Nickel, AAS, Dry ash (mg / kg (ppm))	1	1	2.2900							
539.41	Nickel, ICP, Dry ash (mg / kg (ppm))	1	1	1.9000							
539.42	Nickel, ICP, Open vessel (mg / kg (ppm))	1	1	2.0700							
539.52	Nickel, ICP-MS, Open vessel (mg / kg (ppm))	1	1	1.8281							
539.53	Nickel, ICP-MS, Microwave (mg / kg (ppm))	1	1	1.7171							
710.99	Lauric Acid (12:0), Miscellaneous (% (w/w))	1	1	0.00100							
714.99	Myristic Acid (14:0), Miscellaneous (% (w/w))	1	1	0.01950							
716.99	Palmitic Acid (16:0), Miscellaneous (% (w/w))	1	1	0.55800							
718.99	Palmitoleic Acid (9c-16:1), Miscellaneous (% (w/	1	1	0.02650							
722.99	Stearic Acid (18:0), Miscellaneous (% (w/w))	1	1	0.13050							
724.99	Oleic Acid (9c-18:1), Miscellaneous (% (w/w))	1	1	0.68000							
726.99	Linoleic Acid (9c,12c-18:2), Miscellaneous (% (w/	1	1	1.3895							
728.99	alpha-Linolenic Acid (9c,12c,15c-18:3), Miscellane	1	1	0.09600							
730.99	Arachidic Acid (20:0), Miscellaneous (% (w/w))	1	1	0.01150							
732.99	Gondoic Acid (11c-20:1), Miscellaneous (% (w/w)	1	1	0.01200							
740.99	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-2(	1	1	0.01200							
742.99	Behenic Acid (22:0), Miscellaneous (% (w/w))	1	1	0.00900							
744.99	Erucic Acid (13c-22:1), Miscellaneous (% (w/w))	1		0.00000							
746.99	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13(	1	1	0.00250							
748.99	Lignoceric Acid (24:0), Miscellaneous (% (w/w))	1	1	0.01050							
750.99	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,1	1	1	0.01500							
752.99	Nervonic Acid (24:1) isomers, Miscellaneous (% (	1		0.00000							
772.99	Total Fatty Acids, Miscellaneous (% (w/w))	1	1	3.0210							

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
Pheasant & Turkey Feed
Test Material Code # 201729

Method Precision Report

 # Methods Reported: 89
 # Labs Reporting: 195
Issue Date : 10/31/2017

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 (%)	42	37	9.3674	0.60110	0.39034	0.12675	0.41040	4.13%	1.343%	4.35%	3.2379
001.99	Loss on Drying, Miscellaneous (%)	21	18	9.2881	0.56426	0.46368	0.07555	0.46980	4.94%	0.805%	5.01%	6.2181
002.01	Protein, Auto Kjel-Foss (%)	11	10	20.533	0.19499	0.19425	0.07513	0.20828	0.95%	0.366%	1.01%	2.7721
002.05	Protein, Copper, Boric Acid (%)	27	24	20.690	0.33743	0.26188	0.06822	0.27062	1.27%	0.330%	1.31%	3.9666
002.06	Protein, Combustion Nitrogen Analyzer (%)	123	114	20.886	0.31258	0.23492	0.14377	0.27542	1.13%	0.689%	1.32%	1.9157
003.00	Fat, Eth Ext., Direct (%)	13	12	3.0620	0.53782	0.31854	0.09727	0.33306	10.83%	3.308%	11.33%	3.4241
003.06	Fat, Pet Ether (%)	17	17	2.9311	0.15998	0.14336	0.10042	0.17504	4.89%	3.426%	5.97%	1.7430
003.09	Fat, Soxtec, Eth Ext (%)	18	17	2.9751	0.19007	0.19197	0.05230	0.19896	6.46%	1.760%	6.69%	3.8044
003.10	Fat, Soxtec, Pet Ether (%)	27	24	2.7570	0.22832	0.12229	0.08511	0.14899	4.47%	3.109%	5.44%	1.7506
003.13	Fat, Soxtec, Hexane Ext. (%)	9	8	2.9338	0.18947	0.17492	0.10296	0.20297	5.96%	3.509%	6.92%	1.9715
003.14	Fat, Ankom (%)	43	39	2.7681	0.32830	0.23235	0.09904	0.25258	8.51%	3.630%	9.26%	2.5502
003.99	Fat, Miscellaneous (%)	8	8	3.1375	0.22213	0.21175	0.09493	0.23205	6.75%	3.026%	7.40%	2.4444
004.00	Fiber, Crude, Asbestos Free (%)	16	16	4.9593	0.25041	0.24617	0.06484	0.25457	4.96%	1.307%	5.13%	3.9261
004.06	Fiber, Fibertec (%)	26	23	5.1130	0.32273	0.27476	0.12534	0.30199	5.40%	2.465%	5.94%	2.4095
004.07	Fiber, ANKOM (%)	66	59	4.7495	0.53963	0.39434	0.14057	0.41864	8.31%	2.962%	8.82%	2.9781
005.00	Ash, 2h @ 600°C (%)	87	80	7.0917	0.27154	0.24907	0.07592	0.26038	3.50%	1.068%	3.66%	3.4299
005.05	Ash, 3h @ 550°C (%)	31	30	7.2342	0.20264	0.19685	0.04576	0.20210	2.72%	0.632%	2.79%	4.4166
005.99	Ash, Miscellaneous (%)	12	11	7.3545	0.37276	0.23955	0.06664	0.24864	3.22%	0.896%	3.34%	3.7312
008.02	Fiber, Acid Detergent (%)	16	14	6.5828	0.88850	0.63750	0.10027	0.64534	9.93%	1.562%	10.06%	6.4360
008.08	Fiber, Acid Detergent, ANKOM (%)	41	39	6.3350	0.49763	0.47661	0.14964	0.49955	7.55%	2.369%	7.91%	3.3383
009.07	Fiber, Neutral Det-ENZ Pretreat (%)	14	13	15.651	1.9264	1.9221	0.18266	1.9307	12.28%	1.167%	12.34%	10.570
009.09	Fiber, Neutral Detergent, ANKOM (%)	40	37	14.593	1.2626	1.0963	0.26173	1.1271	7.57%	1.807%	7.78%	4.3063
010.99	Moisture, Miscellaneous (%)	17	15	9.7082	0.60834	0.61922	0.04228	0.62067	6.36%	0.434%	6.38%	14.681
011.01	Loss on Drying, 135°C 2hr (%)	61	57	10.252	0.62183	0.43411	0.10923	0.44764	4.20%	1.058%	4.34%	4.0980
012.00	Starch, Polarimetric (Ewers) (%)	11	10	34.024	1.1381	0.60329	0.46322	0.76061	1.76%	1.350%	2.22%	1.6420
012.01	Starch, Megazyme (%)	10	9	32.299	3.4436	1.7588	0.54063	1.8400	5.29%	1.626%	5.53%	3.4034
013.00	Fat, Acid hydrolysis (%)	19	18	3.5734	0.48059	0.48173	0.08750	0.48961	13.40%	2.434%	13.62%	5.5958
013.02	Fat, Mojonnier, Bak Ext (%)	17	15	4.2723	0.37515	0.27047	0.05965	0.27697	6.47%	1.428%	6.63%	4.6432
019.00	Calcium, Ox-Mn04 Vol. (%)	10	8	1.5010	0.10580	0.10354	0.01381	0.10445	6.83%	0.911%	6.90%	7.5653
019.31	Calcium, AAS, Dry ash (%)	21	20	1.5316	0.20629	0.11280	0.02964	0.11663	7.19%	1.888%	7.43%	3.9354
019.41	Calcium, ICP, Dry ash (%)	30	29	1.5407	0.06910	0.05655	0.03484	0.06642	3.66%	2.252%	4.29%	1.9063
019.42	Calcium, ICP, Open vessel (%)	22	20	1.5556	0.10859	0.06981	0.04548	0.08331	4.43%	2.887%	5.29%	1.8320

Test Material Code # 201729 **Issue Date : 10/31/2017**

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
019.43	Calcium, ICP, Microwave (%)	28	25	1.5559	0.10038	0.06946	0.02793	0.07486	4.50%	1.812%	4.86%	2.6801
022.31	Copper, AAS, Dry ash (mg / kg (ppm))	11	10	17.749	2.2045	2.0071	0.39799	2.0462	11.52%	2.284%	11.74%	5.1412
022.41	Copper, ICP, Dry ash (mg / kg (ppm))	21	18	16.803	3.0273	2.5059	0.59685	2.5760	15.32%	3.649%	15.75%	4.3161
022.42	Copper, ICP, Open vessel (mg / kg (ppm))	22	18	18.742	3.2247	1.6314	0.55649	1.7237	9.16%	3.124%	9.68%	3.0974
022.43	Copper, ICP, Microwave (mg / kg (ppm))	23	20	17.423	1.1648	1.0823	0.55185	1.2149	6.20%	3.162%	6.96%	2.2015
025.31	Iron, AAS, Dry ash (mg / kg (ppm))	14	13	247.12	49.494	26.324	6.9413	27.224	11.16%	2.943%	11.54%	3.9220
025.41	Iron, ICP, Dry ash (mg / kg (ppm))	23	21	226.42	18.552	18.473	5.7604	19.351	8.17%	2.549%	8.56%	3.3593
025.42	Iron, ICP, Open vessel (mg / kg (ppm))	18	16	227.97	22.215	15.686	6.5057	16.982	6.81%	2.824%	7.37%	2.6103
025.43	Iron, ICP, Microwave (mg / kg (ppm))	23	21	237.01	25.843	17.435	8.0446	19.202	7.50%	3.462%	8.26%	2.3869
027.31	Magnesium, AAS, Dry ash (%)	18	16	0.20696	0.01655	0.01116	0.00480	0.01215	5.32%	2.288%	5.79%	2.5295
027.41	Magnesium, ICP, Dry ash (%)	24	24	0.21038	0.01039	0.00923	0.00675	0.01143	4.39%	3.206%	5.44%	1.6951
027.42	Magnesium, ICP, Open vessel (%)	19	16	0.21457	0.01447	0.00801	0.00324	0.00864	3.68%	1.490%	3.97%	2.6626
027.43	Magnesium, ICP, Microwave (%)	26	24	0.21231	0.01452	0.01415	0.00680	0.01570	6.66%	3.202%	7.39%	2.3091
028.31	Manganese, AAS, Dry ash (mg / kg (ppm))	14	13	113.79	14.454	3.9877	3.3165	5.1866	3.62%	3.012%	4.71%	1.5639
028.41	Manganese, ICP, Dry ash (mg / kg (ppm))	22	21	103.40	9.1493	8.7472	3.7935	9.5344	8.46%	3.669%	9.22%	2.5133
028.42	Manganese, ICP, Open vessel (mg / kg (ppm))	20	19	109.94	10.150	8.1189	3.8008	8.9645	7.47%	3.498%	8.25%	2.3586
028.43	Manganese, ICP, Microwave (mg / kg (ppm))	23	21	109.75	7.4232	6.6296	3.1313	7.3319	6.08%	2.869%	6.72%	2.3415
031.01	Phosphorus, Photometric (%)	34	29	0.73678	0.02925	0.02131	0.01178	0.02435	2.88%	1.591%	3.29%	2.0663
031.41	Phosphorus, ICP, Dry ash (%)	29	27	0.74191	0.03180	0.02819	0.01125	0.03035	3.79%	1.511%	4.08%	2.6986
031.42	Phosphorus, ICP, Open vessel (%)	22	21	0.74923	0.04569	0.04388	0.02225	0.04920	5.85%	2.966%	6.56%	2.2111
031.43	Phosphorus, ICP, Microwave (%)	27	26	0.75484	0.04187	0.04012	0.01693	0.04355	5.32%	2.243%	5.77%	2.5724
032.31	Potassium, AAS, Dry ash (%)	18	16	1.0582	0.10799	0.05519	0.01638	0.05757	5.33%	1.583%	5.56%	3.5143
032.41	Potassium, ICP, Dry ash (%)	25	22	1.0350	0.08131	0.05134	0.01630	0.05386	4.90%	1.556%	5.14%	3.3045
032.42	Potassium, ICP, Open vessel (%)	19	19	1.0886	0.05592	0.05339	0.02352	0.05834	4.90%	2.161%	5.36%	2.4802
032.43	Potassium, ICP, Microwave (%)	25	22	1.0473	0.07958	0.05776	0.02606	0.06337	5.47%	2.468%	6.00%	2.4311
033.00	Salt as chloride, Sol Cl (%)	18	18	0.44877	0.04113	0.04049	0.01029	0.04177	9.02%	2.293%	9.31%	4.0596
033.01	Salt as chloride, Poten Cl (%)	34	29	0.47620	0.03682	0.01435	0.00639	0.01571	2.96%	1.316%	3.24%	2.4585
033.99	Salt, Miscellaneous (%)	10	10	0.40470	0.09540	0.09355	0.02648	0.09722	23.12%	6.542%	24.02%	3.6720
035.31	Sodium, AAS, Dry ash (%)	18	16	0.17706	0.10412	0.02829	0.00619	0.02896	19.07%	4.172%	19.52%	4.6788
035.41	Sodium, ICP, Dry ash (%)	26	25	0.15556	0.01541	0.01093	0.00855	0.01388	7.11%	5.561%	9.03%	1.6231
035.42	Sodium, ICP, Open vessel (%)	17	15	0.15143	0.01111	0.00839	0.00417	0.00937	5.61%	2.789%	6.26%	2.2454
035.43	Sodium, ICP, Microwave (%)	23	21	0.15205	0.02742	0.01563	0.00924	0.01816	10.61%	6.266%	12.32%	1.9661
036.42	Sulfur, ICP, Open vessel (%)	15	15	0.34912	0.02384	0.02298	0.00900	0.02467	6.58%	2.577%	7.07%	2.7430
036.43	Sulfur, ICP, Microwave (%)	13	11	0.34748	0.02729	0.01883	0.00865	0.02072	5.34%	2.456%	5.88%	2.3948
037.31	Zinc, AAS, Dry ash (mg / kg (ppm))	17	15	113.10	11.742	11.952	2.0216	12.122	10.53%	1.781%	10.68%	5.9959
037.41	Zinc, ICP, Dry ash (mg / kg (ppm))	23	20	109.68	23.720	10.331	2.8525	10.717	9.10%	2.513%	9.44%	3.7571
037.42	Zinc, ICP, Open vessel (mg / kg (ppm))	20	18	114.30	13.721	13.839	3.1754	14.199	12.15%	2.787%	12.46%	4.4715
037.43	Zinc, ICP, Microwave (mg / kg (ppm))	23	21	114.93	9.2304	5.9178	5.9116	8.3647	5.21%	5.201%	7.36%	1.4149
106.02	Vitamin A, LC (KU / kg)	23	20	18.328	8.6903	4.2441	0.97639	4.3550	25.78%	5.931%	26.45%	4.4602
109.02	Vitamin E, LC (IU/kg)	14	12	52.369	23.602	6.0450	1.9291	6.3454	13.13%	4.191%	13.78%	3.2893

Test Material Code # 201729 **Issue Date : 10/31/2017**

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
120.00	Alanine, Post-col Ninhydrin Der (%)	19	17	1.0318	0.03271	0.03332	0.01013	0.03483	3.22%	0.980%	3.37%	3.4393
121.00	Arginine, Post-col Ninhydrin Der (%)	19	16	1.3080	0.05643	0.04447	0.01414	0.04667	3.42%	1.088%	3.59%	3.2994
122.00	Aspartic, Post-col Ninhydrin Der (%)	19	17	1.9658	0.05976	0.04508	0.02037	0.04947	2.30%	1.041%	2.53%	2.4282
124.00	Cysteine/Cystine, PAO Post-col Ninhydri (%)	19	16	0.31298	0.02438	0.01985	0.00399	0.02025	6.42%	1.291%	6.55%	5.0711
125.00	Glutamic, Post-col Ninhydrin Der (%)	19	17	3.4076	0.16665	0.12002	0.03588	0.12527	3.55%	1.062%	3.71%	3.4912
126.00	Glycine, Post-col Ninhydrin Der (%)	19	16	1.0449	0.03448	0.02473	0.00909	0.02635	2.38%	0.876%	2.54%	2.8981
127.00	Histidine, Post-col Ninhydrin Der (%)	18	17	0.50520	0.05787	0.02881	0.00637	0.02950	5.84%	1.291%	5.98%	4.6335
128.00	Isoleucine, Post-col Ninhydrin Der (%)	19	17	0.78622	0.05497	0.03845	0.00953	0.03961	4.83%	1.197%	4.98%	4.1579
129.00	Leucine, Post-col Ninhydrin Der (%)	19	16	1.5320	0.06403	0.03566	0.01723	0.03960	2.33%	1.124%	2.58%	2.2989
130.00	L-Lysine, Post-col Ninhydrin Der (%)	21	20	1.0842	0.05306	0.04229	0.01446	0.04470	3.88%	1.326%	4.10%	3.0905
131.00	Methionine, PAO Post-col Ninhydrin Der (%)	19	16	0.43542	0.02244	0.01654	0.00598	0.01759	3.84%	1.388%	4.08%	2.9407
132.00	Phenylalanine, Post-col Ninhydrin Der (%)	19	17	0.91969	0.03341	0.03289	0.00932	0.03418	3.58%	1.015%	3.72%	3.6674
133.00	Proline, Post-col Ninhydrin Der (%)	19	18	1.2212	0.08106	0.08126	0.02642	0.08545	6.66%	2.164%	7.00%	3.2342
134.00	Serine, Post-col Ninhydrin Der (%)	19	18	0.93783	0.04850	0.02634	0.04171	0.04933	2.83%	4.480%	5.30%	1.1827
135.00	Threonine, Post-col Ninhydrin Der (%)	19	18	0.75142	0.03025	0.02247	0.01007	0.02463	3.01%	1.349%	3.30%	2.4449
137.00	Tyrosine, Post-col Ninhydrin Der (%)	14	12	0.59779	0.04563	0.04701	0.00961	0.04798	7.85%	1.605%	8.01%	4.9922
138.00	Valine, Post-col Ninhydrin Der (%)	19	18	0.92233	0.05786	0.04708	0.01199	0.04859	5.06%	1.289%	5.22%	4.0524

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