



AAFCO
Proficiency Testing Program



Pet Food Scheme

Analyte Summary Report

Analytes Reported: 86

Barley

Labs Reporting: 56

Test Material Code # 201744

Issue Date : 01/31/2018

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests 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
001	Loss on Drying (%)	21	20	10.829	0.64897	10.941	0.43781	0.12237	4.00%	0.12198	2.79%
002	Protein (%)	61	60	11.827	0.28005	11.854	0.23219	0.03747	1.96%	0.10706	2.76%
003	Fat (%)	34	34	1.6065	0.32006	1.5657	0.19509	0.04182	12.46%	0.07026	3.74%
004	Fiber (%)	36	35	1.2563	0.46988	1.1522	0.18602	0.03930	16.14%	0.09252	3.92%
005	Ash (%)	47	46	1.4000	0.12603	1.3809	0.04983	0.00918	3.61%	0.04880	3.81%
006	Total sugars (%)	5	4	1.4775	1.0020	1.4775	1.0020	0.62625	67.82%	0.02500	3.77%
008	Fiber (%)	12	11	1.5602	0.39989	1.5307	0.38170	0.14386	24.94%	0.07552	3.75%
009	Fiber (%)	11	10	8.1185	3.7562	7.7102	3.2540	1.2863	42.20%	0.37026	2.94%
010	Moisture (%)	7	7	11.149	0.37121	11.149	0.42095	0.19888	3.78%	0.18924	2.78%
011	Loss on Drying (%)	28	27	11.207	0.38401	11.255	0.31442	0.07564	2.79%	0.13357	2.78%
012	Starch (%)	12	12	56.897	3.9602	56.836	4.1304	1.4904	7.27%	0.75732	1.33%
013	Fat (%)	29	28	2.6016	0.53782	2.5683	0.45297	0.10700	17.64%	0.13039	3.47%
014	Fiber, total dietary TDF (%)	1	1	10.750							
015	Aluminum (mg / kg (ppm))	2	2	8.5150	2.2840						
019	Calcium (%)	33	31	0.03474	0.00690	0.03363	0.00477	0.00107	14.20%	0.00124	6.66%
021	Cobalt (mg / kg (ppm))	2	1	0.00600							
022	Copper (mg / kg (ppm))	28	26	5.2308	1.0753	5.0782	0.65188	0.15981	12.84%	0.22168	12.53%
024	Iodine (mg / kg (ppm))	1		0.00000							
025	Iron (mg / kg (ppm))	28	26	36.691	4.7788	36.738	3.0351	0.74404	8.26%	1.4168	9.30%
027	Magnesium (%)	32	31	0.09481	0.00633	0.09518	0.00476	0.00107	5.01%	0.00226	5.70%
028	Manganese (mg / kg (ppm))	31	31	12.070	1.3087	12.095	1.1681	0.26224	9.66%	0.56582	10.99%
031	Phosphorus (%)	34	33	0.28056	0.02266	0.28175	0.01837	0.00400	6.52%	0.01091	4.84%
032	Potassium (%)	33	32	0.35187	0.02840	0.35166	0.02233	0.00493	6.35%	0.00766	4.68%
033	Salt as chloride (%)	9	8	0.13667	0.00491	0.13680	0.00528	0.00234	3.86%	0.00329	5.40%
034	Selenium (mg / kg (ppm))	2	1	0.01050							
035	Sodium (%)	27	25	0.00766	0.00264	0.00749	0.00253	0.00063	33.79%	0.00060	8.36%
036	Sulfur (%)	13	12	0.12378	0.00752	0.12432	0.00719	0.00259	5.78%	0.00280	5.47%
037	Zinc (mg / kg (ppm))	29	28	22.282	3.9347	22.142	2.5558	0.60375	11.54%	1.2651	10.04%
038	Molybdenum (mg / kg (ppm))	4	3	0.09713	0.08909	0.09713	0.08909	0.06430	91.72%	0.00100	22.00%
042	Chloride (%)	2	2	0.08725	0.00389						

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101	Choline Chloride (mg / kg (ppm))	2	2	1,370.0	14.142						
102	Niacin (mg / kg (ppm))	2	2	61.800	4.4548						
103	Pantothenic Acid (mg / kg (ppm))	2	2	5.5100	5.8548						
104	Riboflavin (mg / kg (ppm))	2	2	1.5475	0.71064						
105	Thiamine (mg / kg (ppm))	5	5	2.8191	0.74997	2.8191	0.74997	0.41925	26.60%	0.16780	13.69%
106	Vitamin A (KU / kg)	1		0.00000							
107	Vitamin B12 (µg / kg (ppb))	1		0.00000							
108	Vitamin D3 (KU / kg)	2		0.00000							
109	Vitamin E (IU/kg)	1		0.00000							
112	Pyridoxine (µg / g)	2	2	2.2225	0.52679						
113	Folic Acid (mg / kg (ppm))	2	2	0.26500	0.04243						
114	Biotin (mg / kg (ppm))	2	2	0.12600	0.00566						
120	Alanine (%)	8	8	0.46171	0.01480	0.46171	0.01678	0.00742	3.63%	0.00804	4.49%
121	Arginine (%)	8	8	0.53976	0.02643	0.54152	0.02530	0.01118	4.67%	0.01195	4.39%
122	Aspartic (%)	8	8	0.65644	0.02705	0.65644	0.03068	0.01356	4.67%	0.01661	4.26%
124	Cysteine/Cystine (%)	7	7	0.24043	0.01725	0.24065	0.01906	0.00900	7.92%	0.00800	4.96%
125	Glutamic (%)	8	8	3.0443	0.15264	3.0528	0.15325	0.06773	5.02%	0.06774	3.38%
126	Glycine (%)	7	7	0.43301	0.01897	0.43301	0.02152	0.01016	4.97%	0.00937	4.54%
127	Histidine (%)	8	8	0.25039	0.01571	0.25039	0.01782	0.00787	7.11%	0.00423	4.93%
128	Isoleucine (%)	8	8	0.42826	0.01741	0.42826	0.01975	0.00873	4.61%	0.01255	4.54%
129	Leucine (%)	8	8	0.79325	0.02780	0.79698	0.02207	0.00976	2.77%	0.01245	4.14%
130	L-Lysine (%)	8	8	0.38268	0.03983	0.38334	0.04367	0.01930	11.39%	0.00938	4.62%
131	Methionine (%)	7	7	0.18721	0.01031	0.18711	0.01146	0.00541	6.12%	0.00393	5.15%
132	Phenylalanine (%)	8	8	0.62991	0.01935	0.63053	0.02053	0.00907	3.26%	0.01668	4.29%
133	Proline (%)	8	8	1.3396	0.08663	1.3500	0.07237	0.03199	5.36%	0.02219	3.82%
134	Serine (%)	8	8	0.48283	0.03126	0.48269	0.03515	0.01554	7.28%	0.00970	4.46%
135	Threonine (%)	8	8	0.37357	0.01442	0.37318	0.01547	0.00684	4.15%	0.01021	4.64%
136	Tryptophan (%)	7	6	0.15073	0.02172	0.15073	0.02463	0.01257	16.34%	0.00495	5.32%
137	Tyrosine (%)	8	7	0.32971	0.05333	0.32971	0.06048	0.02857	18.34%	0.01694	4.73%
138	Valine (%)	8	8	0.58661	0.02220	0.58661	0.02517	0.01112	4.29%	0.01376	4.33%
139	Taurine (%)	4	3	0.06240	0.08387	0.06240	0.08387	0.06053	134.41%	0.00267	6.07%
160	Fructose (%)	4	1								
161	Galactose (%)	2		0.00000							
162	Glucose (%)	4	1								
163	Lactose (%)	3									
164	Maltose (%)	5	3	0.11500	0.02598	0.11500	0.02598	0.01875	22.59%	0.00333	5.54%
165	Sucrose (%)	5	4	1.0075	0.02901	1.0075	0.02901	0.01813	2.88%	0.04000	4.00%
400	Water activity (Units)	2	2	0.52153	0.00421						

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516	Arsenic, total (mg / kg (ppm))	2	1	0.11500							
518	Cadmium (mg / kg (ppm))	6	6	0.01355	0.00567	0.01176	0.00168	0.00086	14.27%	0.00247	22.00%
520	Chromium (mg / kg (ppm))	1	1	0.09300							
526	Lead (mg / kg (ppm))	1	1	0.02600							
539	Nickel (mg / kg (ppm))	1	1	0.08300							
710	Lauric Acid (12:0) (% (w/w))	1		0.00000							
714	Myristic Acid (14:0) (% (w/w))	1	1	0.01000							
716	Palmitic Acid (16:0) (% (w/w))	1	1	0.41000							
718	Palmitoleic Acid (9c-16:1) (% (w/w))	1		0.00000							
722	Stearic Acid (18:0) (% (w/w))	1	1	0.04500							
724	Oleic Acid (9c-18:1) (% (w/w))	1	1	0.29850							
726	Linoleic Acid (9c,12c-18:2) (% (w/w))	1	1	0.94150							
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w))	1	1	0.03650							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (% (w/w))	1		0.00000							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (% (w/w))	1		0.00000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids	1	1	0.04000							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids	1	1	0.94650							
772	Total Fatty Acids (% (w/w))	1	1	1.7600							

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.