



AAFCO
Proficiency Testing Program



Animal Feed Scheme

Fish Food, Carnivore

Test Material Code # 201732

Analyte Summary Report

Analytes Reported: 98

Labs Reporting: 195

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
000	Urea (%)	1	1	0.50000							
001	Loss on Drying (%)	77	76	4.8486	0.36989	4.8925	0.21016	0.03013	4.30%	0.08794	3.15%
002	Protein (%)	191	190	51.799	1.0443	51.874	0.61735	0.05598	1.19%	0.28276	1.39%
003	Fat (%)	140	139	18.075	0.87492	18.059	0.35648	0.03780	1.97%	0.21946	2.35%
004	Fiber (%)	112	110	1.3883	1.0245	1.2401	0.36876	0.04395	29.74%	0.13964	3.87%
005	Ash (%)	148	143	10.843	0.33070	10.833	0.13267	0.01387	1.22%	0.06667	2.79%
006	Total sugars (%)	4	3	0.54667	0.30501	0.54667	0.30501	0.22012	55.79%	0.06667	4.38%
008	Fiber (%)	51	50	3.6633	1.5588	3.6351	1.6521	0.29206	45.45%	0.22576	3.29%
009	Fiber (%)	50	48	12.330	5.9369	11.455	4.5362	0.81843	39.60%	0.72567	2.77%
010	Moisture (%)	26	26	4.8712	0.54530	4.9070	0.43517	0.10668	8.87%	0.05605	3.15%
011	Loss on Drying (%)	77	76	5.3613	0.32514	5.3722	0.29347	0.04208	5.46%	0.10992	3.11%
012	Starch (%)	27	26	8.1823	2.4650	7.9161	1.2901	0.31627	16.30%	0.21372	2.93%
013	Fat (%)	64	62	19.692	1.0149	19.685	0.89169	0.14156	4.53%	0.27790	2.25%
015	Aluminum (mg / kg (ppm))	15	15	342.67	54.471	349.78	42.227	13.629	12.07%	13.787	6.63%
017	Boron (mg / kg (ppm))	15	14	2.8019	1.1630	2.6262	0.78238	0.26137	29.79%	0.30211	13.83%
019	Calcium (%)	122	118	2.8025	0.22048	2.7987	0.15806	0.01819	5.65%	0.06679	3.43%
021	Cobalt (mg / kg (ppm))	21	21	9.3297	1.3056	9.2783	1.3558	0.36981	14.61%	0.70561	11.44%
022	Copper (mg / kg (ppm))	93	90	74.805	6.8484	75.517	4.5095	0.59418	5.97%	1.9532	8.34%
023	Fluorine (mg / kg (ppm))	1	1	51.750							
024	Iodine (mg / kg (ppm))	1	1	8.8400							
025	Iron (mg / kg (ppm))	87	85	586.85	54.613	586.82	45.670	6.1920	7.78%	17.452	6.13%
027	Magnesium (%)	100	99	0.15986	0.01447	0.16068	0.01104	0.00139	6.87%	0.00467	5.27%
028	Manganese (mg / kg (ppm))	77	75	100.09	7.0054	99.935	5.8796	0.84864	5.88%	3.0228	8.00%
031	Phosphorus (%)	137	134	1.7350	0.12227	1.7409	0.07239	0.00782	4.16%	0.03168	3.68%
032	Potassium (%)	95	93	0.57186	0.05287	0.57309	0.03434	0.00445	5.99%	0.01565	4.35%
033	Salt as chloride (%)	58	55	1.2351	0.09294	1.2477	0.07276	0.01226	5.83%	0.01916	3.87%
034	Selenium (mg / kg (ppm))	17	17	1.5496	0.59059	1.6467	0.41211	0.12494	25.03%	0.10427	14.84%
035	Sodium (%)	101	98	0.34346	0.02626	0.34557	0.02112	0.00267	6.11%	0.00945	4.69%
036	Sulfur (%)	38	37	0.76050	0.04294	0.75775	0.04224	0.00868	5.57%	0.01510	4.17%
037	Zinc (mg / kg (ppm))	93	91	365.62	28.834	364.41	25.173	3.2986	6.91%	8.0669	6.58%

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038	Molybdenum (mg / kg (ppm))	19	18	0.69873	0.16315	0.69522	0.15536	0.04577	22.35%	0.05881	16.90%
040	Barium (mg / kg (ppm))	3	3	5.6797	0.83689	5.6797	0.83689	0.60397	14.73%	0.10620	12.32%
041	Vanadium (mg / kg (ppm))	2	2	2.6721	0.11020						
042	Chloride (%)	4	4	0.74075	0.03161	0.74075	0.03161	0.01976	4.27%	0.01000	4.18%
101	Choline Chloride (mg / kg (ppm))	4	4	5,550.1	988.61	5,550.1	988.61	617.88	17.81%	421.58	4.37%
102	Niacin (mg / kg (ppm))	1	1	250.50							
103	Pantothenic Acid (mg / kg (ppm))	2	2	62.440	86.352						
104	Riboflavin (mg / kg (ppm))	3	3	78.492	13.418	78.492	13.418	9.6836	17.09%	3.1833	8.30%
105	Thiamine (mg / kg (ppm))	3	3	28.423	8.6260	28.423	8.6260	6.2253	30.35%	2.1400	9.67%
106	Vitamin A (KU / kg)	22	21	5.5822	1.2830	5.5147	1.3017	0.35507	23.60%	0.72240	
107	Vitamin B12 (µg / kg (ppb))	1	1	419.00							
108	Vitamin D3 (KU / kg)	8	7	5.6286	7.2924	3.8617	3.5134	1.6599	90.98%	0.26571	
109	Vitamin E (IU/kg)	20	19	872.57	277.40	902.39	223.75	64.164	24.79%	33.771	
111	Vitamin C, phosphorylated (mg / kg (ppm))	3	3	36.233	8.0663	36.233	8.0663	5.8214	22.26%	2.1333	9.32%
112	Pyridoxine (µg / g)	1	1	36.400							
113	Folic Acid (mg / kg (ppm))	1	1	13.350							
114	Biotin (mg / kg (ppm))	1	1	1.0850							
120	Alanine (%)	27	27	3.1366	0.24243	3.1127	0.18193	0.04377	5.84%	0.04938	3.37%
121	Arginine (%)	26	25	2.8148	0.12220	2.8231	0.10507	0.02627	3.72%	0.04464	3.42%
122	Aspartic (%)	27	27	3.9549	0.16969	3.9617	0.15530	0.03736	3.92%	0.07931	3.25%
124	Cysteine/Cystine (%)	26	26	0.65130	0.08445	0.64660	0.04284	0.01050	6.63%	0.01990	4.27%
125	Glutamic (%)	27	27	6.9448	0.37183	6.9366	0.28860	0.06943	4.16%	0.10564	2.99%
126	Glycine (%)	27	26	3.6824	0.14083	3.6771	0.10733	0.02631	2.92%	0.05135	3.29%
127	Histidine (%)	26	26	1.1270	0.08669	1.1343	0.05805	0.01423	5.12%	0.02325	3.92%
128	Isoleucine (%)	27	27	1.8479	0.08254	1.8484	0.07916	0.01904	4.28%	0.04203	3.65%
129	Leucine (%)	27	27	4.0134	0.11895	4.0047	0.09711	0.02336	2.42%	0.04535	3.25%
130	L-Lysine (%)	31	30	4.1268	0.37805	4.1795	0.23999	0.05477	5.74%	0.08037	3.23%
131	Methionine (%)	29	29	1.4339	0.15390	1.4323	0.09886	0.02295	6.90%	0.03327	3.79%
132	Phenylalanine (%)	26	25	2.1308	0.11985	2.1461	0.09173	0.02293	4.27%	0.04181	3.57%
133	Proline (%)	25	24	3.0678	0.28972	3.1183	0.13097	0.03342	4.20%	0.05777	3.37%
134	Serine (%)	27	26	2.4337	0.18681	2.4185	0.16236	0.03980	6.71%	0.06681	3.50%
135	Threonine (%)	28	27	1.8948	0.10344	1.8791	0.08017	0.01929	4.27%	0.03491	3.64%
136	Tryptophan (%)	18	18	0.40161	0.09333	0.41466	0.06794	0.02002	16.38%	0.01304	4.57%
137	Tyrosine (%)	21	21	1.4613	0.14975	1.4782	0.09257	0.02525	6.26%	0.03730	3.77%
138	Valine (%)	27	26	2.5082	0.14029	2.5187	0.11571	0.02836	4.59%	0.04229	3.48%
139	Taurine (%)	6	6	0.26581	0.04328	0.26581	0.04908	0.02505	18.46%	0.00958	4.88%
357	Ethoxyquin (mg/kg (ppm))	2	2	73.750	0.35355						
400	Water activity (Units)	9	9	0.39652	0.03134	0.39652	0.03555	0.01481	8.96%	0.00448	

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412	Dietary Starch (%)	1	1	8.6500							
516	Arsenic, total (mg / kg (ppm))	13	13	2.8162	0.74883	2.9832	0.26465	0.09175	8.87%	0.12190	13.57%
518	Cadmium (mg / kg (ppm))	12	12	0.11107	0.00805	0.11034	0.00726	0.00262	6.58%	0.00754	22.00%
520	Chromium (mg / kg (ppm))	10	10	3.1876	0.50096	3.1374	0.44192	0.17469	14.09%	0.13300	13.47%
526	Lead (mg / kg (ppm))	11	11	0.56705	0.05365	0.56308	0.05115	0.01928	9.08%	0.03213	17.44%
529	Mercury (µg / kg (ppb))	2	2	25.250	12.374						
539	Nickel (mg / kg (ppm))	5	5	1.1788	0.37849	1.1788	0.37849	0.21158	32.11%	0.09066	15.61%
702	Butyric Acid (4:0) (%)	1	1	0.02450							
704	Caproic Acid (6:0) (%)	1	1	0.00100							
706	Caprylic acid (8:0) (%) (w/w)	1		0.00000							
708	Capric acid (10:0) (%) (w/w)	1	1	0.00300							
710	Lauric Acid (12:0) (%) (w/w)	2	2	0.13100	0.02263						
714	Myristic Acid (14:0) (%) (w/w)	2	2	4.3175	4.3098						
716	Palmitic Acid (16:0) (%) (w/w)	2	2	12.370	10.656						
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	2	2	7.2875	6.4665						
720	Margaric acid (17:0) (%) (w/w)	1	1	0.46000							
722	Stearic Acid (18:0) (%) (w/w)	2	2	2.2540	2.2076						
724	Oleic Acid (9c-18:1) (%) (w/w)	2	2	6.6775	5.7099						
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	2	2	3.6175	3.2987						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	2	2	0.95750	0.97227						
730	Arachidic Acid (20:0) (%) (w/w)	2	2	0.18300	0.04525						
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	2	0.34075	0.22521						
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2	1	1.2700							
738	Mead Acid (11c,14c,17c-20:3) (%) (w/w)	1	1	0.16700							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	2	2	5.5625	5.4341						
744	Erucic Acid (13c-22:1) (%) (w/w)	2	1	0.08500							
746	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13c,16c,19c-22:5) (%) (w/w)	1	1	0.29950							
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.14500							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c,22:6) (%) (w/w)	1	1	0.92700							
752	Nervonic Acid (24:1) isomers (%) (w/w)	1		0.00000							

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.