



AAFCO
Proficiency Testing Program



Pet Food Ingredient Scheme

Wheat Flour

Test Material Code # 202141

Analyte Summary Report

Labs Reporting: 57

Analytes Reported: 61

Issue Date : 03/31/2021

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO #fp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
001	Loss on Drying (%)	31	31	9.322	0.3920	9.367	0.3418	0.0767	3.65%	0.1562	2.86%
002	Protein, Crude (%)	58	56	7.771	0.4429	7.771	0.3970	0.0663	5.11%	0.1070	2.94%
003	Fat, Crude (%)	40	38	1.633	0.1898	1.634	0.1337	0.0271	8.19%	0.0829	3.71%
004	Fiber, Crude (%)	29	29	2.330	0.3534	2.354	0.2764	0.0642	11.74%	0.1505	3.52%
005	Ash (%)	52	51	1.577	0.3089	1.532	0.0551	0.0097	3.60%	0.0528	3.75%
006	Total Sugars (%)	1	1	2.285							
008	Fiber, Acid Detergent (%)	6	6	2.973	0.3951	2.973	0.4480	0.2286	15.07%	0.1662	3.39%
009	Fiber, Neutral Detergent (%)	5	4	10.11	0.1726	10.11	0.1726	0.0863	1.71%	0.2550	2.82%
010	Moisture (%)	3	3	9.658	0.4693	9.658	0.4693	0.2709	4.86%	0.1567	2.84%
011	Loss on Drying, HT (%)	22	22	9.668	0.6206	9.789	0.3281	0.0874	3.35%	0.1043	2.84%
012	Starch (%)	12	11	63.93	1.717	63.96	1.873	0.7060	2.93%	1.086	1.25%
013	Fat, Acid Pretreat (%)	18	18	2.337	0.3157	2.355	0.3169	0.0934	13.45%	0.1221	3.52%
015	Aluminum (ppm)	4	4	1.927	1.269	1.927	1.269	0.6346	65.88%	0.2357	14.49%
017	Boron (ppm)	4	4	1.348	0.2418	1.348	0.2418	0.1209	17.94%	0.0633	15.29%
019	Calcium (%)	27	25	0.0339	0.0037	0.0339	0.0042	0.0011	12.49%	0.0010	6.66%
021	Cobalt (ppm)	6	5	0.0535	0.0468	0.0535	0.0468	0.0261	87.42%	0.0204	22.00%
022	Copper (ppm)	15	14	3.621	0.5073	3.541	0.3838	0.1282	10.84%	0.1979	13.22%
025	Iron (ppm)	14	13	28.39	1.457	28.39	1.653	0.5730	5.82%	0.7596	9.67%
027	Magnesium (%)	27	26	0.1115	0.0058	0.1110	0.0046	0.0011	4.15%	0.0032	5.57%
028	Manganese (ppm)	15	14	19.81	1.038	19.77	1.087	0.3630	5.50%	0.6233	10.21%
031	Phosphorus (%)	28	27	0.3152	0.0144	0.3153	0.0122	0.0029	3.88%	0.0082	4.76%
032	Potassium (%)	41	40	0.4096	0.0255	0.4109	0.0194	0.0038	4.73%	0.0125	4.57%
033	Salt as chloride (%)	7	6	0.1001	0.0127	0.1001	0.0144	0.0073	14.38%	0.0035	5.66%
034	Selenium (ppm)	4	3	0.0476	0.0105	0.0476	0.0105	0.0060	21.97%	0.0051	22.00%
035	Sodium (%)	25	22	0.0088	0.0074	0.0084	0.0074	0.0020	87.93%	0.0006	8.21%
036	Sulfur (%)	10	9	0.0982	0.0045	0.0983	0.0048	0.0020	4.89%	0.0015	5.67%
037	Zinc (ppm)	15	14	23.70	2.369	23.88	1.860	0.6213	7.79%	0.6926	9.92%
038	Molybdenum (ppm)	6	6	0.5236	0.1550	0.5724	0.0459	0.0234	8.01%	0.0073	17.40%
040	Barium (ppm)	1	1	2.852							

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041	Vanadium (ppm)	1	1	0.0046							
102	Niacin (ppm)	1	1	35.60							
104	Riboflavin (ppm)	1		1.000							
105	Thiamine (ppm)	1	1	2.535							
112	Pyridoxine (µg / g)	1	1	1.960							
113	Folic Acid (ppm)	1	1	0.4475							
120	Alanine (%)	6	6	0.3233	0.0184	0.3248	0.0172	0.0088	5.29%	0.0044	4.74%
121	Arginine (%)	6	6	0.4150	0.0238	0.4150	0.0270	0.0138	6.51%	0.0190	4.57%
122	Aspartic (%)	6	6	0.4441	0.0260	0.4441	0.0295	0.0150	6.63%	0.0130	4.52%
124	Cysteine/Cystine (%)	6	5	0.1960	0.0207	0.1960	0.0207	0.0116	10.58%	0.0000	5.11%
125	Glutamic (%)	6	6	1.959	0.0551	1.957	0.0586	0.0299	2.99%	0.0605	3.62%
126	Glycine (%)	6	6	0.3461	0.0309	0.3537	0.0156	0.0080	4.42%	0.0065	4.68%
127	Histidine (%)	6	6	0.1967	0.0200	0.1967	0.0227	0.0116	11.52%	0.0091	5.11%
128	Isoleucine (%)	6	5	0.2720	0.0164	0.2720	0.0164	0.0092	6.04%	0.0000	4.87%
129	Leucine (%)	6	6	0.5298	0.0158	0.5298	0.0179	0.0092	3.39%	0.0122	4.40%
130	L-Lysine (%)	6	6	0.2884	0.0131	0.2884	0.0149	0.0076	5.17%	0.0068	4.82%
131	Methionine (%)	6	6	0.1374	0.0176	0.1374	0.0200	0.0102	14.57%	0.0067	5.39%
132	Phenylalanine (%)	6	6	0.3283	0.0430	0.3283	0.0486	0.0248	14.79%	0.0135	4.73%
133	Proline (%)	6	6	0.6543	0.0312	0.6545	0.0349	0.0178	5.34%	0.0195	4.26%
134	Serine (%)	6	6	0.3629	0.0331	0.3629	0.0375	0.0191	10.33%	0.0099	4.66%
135	Threonine (%)	6	6	0.2473	0.0128	0.2467	0.0131	0.0067	5.30%	0.0075	4.94%
136	Tryptophan (%)	4	4	0.1135	0.0274	0.1135	0.0274	0.0137	24.13%	0.0050	5.55%
137	Tyrosine (%)	6	5	0.1913	0.0425	0.1913	0.0425	0.0238	22.23%	0.0158	5.13%
138	Valine (%)	6	6	0.3676	0.0224	0.3676	0.0254	0.0130	6.92%	0.0094	4.65%
139	Taurine (%)	2	2	0.1400	0.0000						
400	Water Activity (Units)	1	1	0.3185							
516	Arsenic, Total (ppm)	4	3	0.0034	0.0007	0.0034	0.0007	0.0004	20.18%	0.0011	22.00%
518	Cadmium (ppm)	7	6	0.0228	0.0044	0.0231	0.0043	0.0022	18.82%	0.0028	22.00%
520	Chromium (ppm)	6	6	0.0876	0.0272	0.0876	0.0309	0.0158	35.23%	0.0082	22.00%
526	Lead (ppm)	5	3	0.0136	0.0071	0.0136	0.0071	0.0041	52.42%	0.0042	22.00%
529	Mercury (ppb)	1	1	0.8507							
539	Nickel (ppm)	4	4	0.1088	0.0380	0.1088	0.0380	0.0190	34.90%	0.0309	22.00%

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. Robust Assigned Values indicated in bold font.