



AAFCO
Association of American Feed Control Officials



Pet Food Ingredient Scheme

Soybean Meal

Test Material Code # 202341

Analyte Summary Report

Labs Reporting: 38

Analytes Reported: 94

Issue Date : 03/31/2023

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 (%)	20	20	9.008	0.5628	9.102	0.3069	0.0858	3.37%	0.1169	2.87%
002	Protein, Crude (%)	39	38	48.66	0.8261	48.86	0.3837	0.0778	0.79%	0.2465	1.43%
003	Fat, Crude (%)	27	26	1.010	0.1986	1.007	0.2098	0.0514	20.83%	0.0851	4.00%
004	Fiber, Crude (%)	22	22	3.630	0.3389	3.671	0.2507	0.0668	6.83%	0.1806	3.29%
005	Ash (%)	30	28	6.398	0.2741	6.375	0.2507	0.0592	3.93%	0.1039	3.03%
006	Total Sugars (%)	2	2	10.63	1.202						
007	Urease (%)	1	1	0.0150							
008	Fiber, Acid Detergent (%)	10	9	4.942	0.5842	4.864	0.4622	0.1926	9.50%	0.2197	3.15%
009	Fiber, Neutral Detergent (%)	9	8	7.781	0.3945	7.781	0.4474	0.1977	5.75%	0.2946	2.94%
010	Moisture (%)	2	2	9.105	0.2121						
011	Loss on Drying, HT (%)	18	16	9.763	0.4674	9.777	0.4800	0.1500	4.91%	0.0942	2.84%
012	Starch (%)	8	8	1.614	1.512	1.539	1.541	0.6809	100.14%	0.1185	3.75%
013	Fat, Pretreat (%)	12	11	2.860	0.7786	2.913	0.7538	0.2841	25.88%	0.2305	3.41%
014	Fiber, Total Dietary (%)	1	1	16.35							
015	Aluminum (ppm)	4	3	25.74	1.033	25.74	1.033	0.5961	4.01%	1.991	9.81%
017	Boron (ppm)	5	5	36.54	3.884	36.54	3.884	1.737	10.63%	1.163	9.31%
019	Calcium (%)	26	25	0.3854	0.0274	0.3833	0.0250	0.0062	6.52%	0.0167	4.62%
021	Cobalt (ppm)	8	5	0.3391	0.0882	0.3391	0.0882	0.0493	26.02%	0.0225	18.82%
022	Copper (ppm)	23	23	14.61	0.9873	14.57	1.013	0.2641	6.95%	0.4049	10.69%
025	Iron (ppm)	23	22	105.6	8.912	105.1	8.633	2.301	8.22%	3.449	7.94%
027	Magnesium (%)	24	23	0.3020	0.0120	0.3017	0.0125	0.0033	4.16%	0.0107	4.79%
028	Manganese (ppm)	24	24	53.10	3.021	53.04	3.291	0.8397	6.20%	1.249	8.80%
031	Phosphorus (%)	27	26	0.6970	0.0292	0.6978	0.0309	0.0076	4.42%	0.0163	4.22%
032	Potassium (%)	28	28	2.335	0.1207	2.327	0.1133	0.0268	4.87%	0.0709	3.52%
033	Salt as chloride (%)	8	4	0.0326	0.0224	0.0326	0.0224	0.0045	68.56%	0.0100	6.69%
034	Selenium, Total (Se) (ppm)	5	3	0.2790	0.0979	0.2790	0.0979	0.0565	35.08%	0.0177	19.38%
035	Sodium (%)	17	14	0.0083	0.0072	0.0083	0.0081	0.0027	97.67%	0.0006	8.22%
036	Sulfur (%)	13	13	0.3877	0.0471	0.3964	0.0258	0.0090	6.52%	0.0133	4.60%
037	Zinc (ppm)	24	23	55.08	4.230	55.12	4.483	1.168	8.13%	1.693	8.75%

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
038	Molybdenum (ppm)	9	9	1.994	0.1810	1.994	0.2052	0.0855	10.29%	0.1169	14.42%
040	Barium (ppm)	1	1	12.93							
041	Vanadium (ppm)	1	1	0.0773							
042	Chloride (%)	1	1	0.0300							
101	Choline Chloride (ppm)	1		0.0600							
102	Niacin (ppm)	1	1	24.55							
103	Pantothenic Acid (ppm)	1	1	11.20							
104	Riboflavin (ppm)	1	1	2.020							
105	Thiamine (ppm)	1	1	31.25							
107	Vitamin B12 (ppb)	1		4.400							
109	Vitamin E (IU / kg)	1	1	1.745							
112	Pyridoxine (µg / g)	1	1	5.965							
113	Folic Acid (ppm)	1	1	2.765							
114	Biotin (ppm)	1	1	0.4150							
120	Alanine (%)	6	5	2.136	0.0538	2.136	0.0538	0.0300	2.52%	0.0127	3.57%
121	Arginine (%)	6	6	3.372	0.1868	3.408	0.1202	0.0613	3.53%	0.0498	3.33%
122	Aspartic (%)	6	5	5.320	0.6765	5.320	0.6765	0.0521	12.72%	0.0744	3.11%
124	Cysteine/Cystine (%)	6	6	0.7002	0.0252	0.7002	0.0286	0.0146	4.09%	0.0121	4.22%
125	Glutamic (%)	6	5	8.880	0.6981	8.880	0.6981	0.3902	7.86%	0.0860	2.88%
126	Glycine (%)	6	6	2.090	0.0384	2.090	0.0436	0.0222	2.09%	0.0662	3.58%
127	Histidine (%)	6	6	1.271	0.1062	1.271	0.1205	0.0615	9.48%	0.0214	3.86%
128	Isoleucine (%)	6	6	2.181	0.1772	2.181	0.2009	0.1025	9.21%	0.0879	3.56%
129	Leucine (%)	6	6	3.651	0.2559	3.676	0.2291	0.1169	6.23%	0.0692	3.29%
130	L-Lysine (%)	6	5	2.994	0.3105	2.994	0.3105	0.1736	10.37%	0.0719	3.39%
131	Methionine (%)	6	6	0.7121	0.0598	0.7121	0.0678	0.0346	9.53%	0.0225	4.21%
132	Phenylalanine (%)	6	6	2.505	0.1253	2.505	0.1421	0.0725	5.67%	0.0271	3.48%
133	Proline (%)	6	6	2.384	0.1670	2.384	0.1894	0.0967	7.95%	0.0994	3.51%
134	Serine (%)	6	5	2.256	0.4179	2.256	0.4179	0.2336	18.52%	0.0259	3.54%
135	Threonine (%)	6	5	1.811	0.2889	1.811	0.2889	0.0430	15.95%	0.0164	3.66%
136	Tryptophan (%)	6	6	0.6721	0.0602	0.6721	0.0682	0.0348	10.15%	0.0201	4.25%
137	Tyrosine (%)	6	6	1.558	0.1929	1.575	0.1760	0.0898	11.17%	0.0202	3.74%
138	Valine (%)	6	6	2.251	0.1774	2.251	0.2012	0.1027	8.94%	0.1025	3.54%
139	Taurine (%)	2	2	0.0750	0.0919						
160	Fructose (%)	1	1	0.5450							
162	Glucose (%)	1		0.1500							
163	Lactose (%)	1		0.1500							
164	Maltose (%)	1		0.1500							
165	Sucrose (%)	1	1	6.365							
166	Raffinose (%)	1	1	1.035							
167	Stachyose (%)	1	1	5.005							

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO ffp Robust SD	Uncertainty (U) Robust	% RSD - Robust	Average Range (R-bar)	Thompson Horwitz %RSD
400	Water Activity (Units)	3	3	0.5123	0.0030	0.5123	0.0030	0.0017	0.58%	0.0062	
516	Arsenic, Total (As) (ppm)	4	3	0.0149	0.0013	0.0149	0.0013	0.0007	8.62%	0.0018	22.00%
518	Cadmium (ppm)	7	6	0.0452	0.0120	0.0432	0.0087	0.0044	20.17%	0.0160	22.00%
520	Chromium, Total (Cr) (ppm)	6	5	0.3968	0.0574	0.3968	0.0574	0.0321	14.45%	0.0203	18.38%
526	Lead (ppm)	6	6	0.0782	0.0861	0.0782	0.0976	0.0498	124.94%	0.0121	22.00%
529	Mercury (ppb)	3	1								
539	Nickel (ppm)	4	4	3.199	0.2684	3.199	0.2684	0.1342	8.39%	0.2088	13.43%
710	Lauric Acid (12:0) (% (w/w))	1		0.0050							
714	Myristic Acid (14:0) (% (w/w))	1		0.0050							
716	Palmitic Acid (16:0) (% (w/w))	1	1	0.3603							
718	Palmitoleic Acid (9c-16:1) (% (w/w))	1		0.0050							
722	Stearic Acid (18:0) (% (w/w))	1	1	0.0839							
724	Oleic Acid (9c-18:1) (% (w/w))	1	1	0.2332							
726	Linoleic Acid (9c,12c-18:2) (% (w/w))	1	1	1.130							
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w))	1	1	0.1486							
730	Arachidic Acid (20:0) (% (w/w))	1		0.0050							
732	Gondoic Acid (11c-20:1) (% (w/w))	1		0.0050							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (% (w/w))	1		0.0050							
742	Behenic Acid (22:0) (% (w/w))	1	1	0.0092							
744	Erucic Acid (13c-22:1) (% (w/w))	1		0.0050							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%)	1		0.0050							
748	Lignoceric Acid (24:0) (% (w/w))	1	1	0.0063							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%)	1		0.0050							
752	Nervonic Acid (24:1) isomers (% (w/w))	1		0.0050							
772	Total Fatty Acids (% (w/w))	1	1	1.970							

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.