



AAFCO
Association of American Feed Control Officials



Animal Feed Scheme

Rice Bran

Test Material Code # 202223

Analyte Summary Report

Labs Reporting: 172

Analytes Reported: 105

Issue Date : 04/30/2022

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
000	Urea (%)	1	1	0.1000							
001	Loss on Drying (%)	77	76	8.208	0.5546	8.240	0.4185	0.0600	5.08%	0.1440	2.91%
002	Protein, Crude (%)	171	168	13.57	0.3945	13.56	0.2966	0.0286	2.19%	0.1761	2.70%
003	Fat, Crude (%)	140	138	17.47	0.5580	17.51	0.4432	0.0472	2.53%	0.2554	2.39%
004	Fiber, Crude (%)	124	122	6.003	0.6297	5.977	0.4080	0.0462	6.83%	0.2003	3.06%
005	Ash (%)	132	130	8.500	0.2961	8.475	0.1475	0.0162	1.74%	0.0891	2.90%
006	Total Sugars (%)	9	9	6.212	1.718	5.849	0.9122	0.3801	15.59%	0.2622	3.07%
008	Fiber, Acid Detergent (%)	67	66	7.694	1.206	7.561	0.9318	0.1434	12.32%	0.2733	2.95%
009	Fiber, Neutral Detergent (%)	64	63	17.03	2.074	16.84	1.622	0.2554	9.63%	0.3217	2.44%
010	Moisture (%)	24	23	8.280	0.6847	8.215	0.6157	0.1605	7.50%	0.1020	2.91%
011	Loss on Drying, HT (%)	72	71	9.432	0.6993	9.420	0.7430	0.1102	7.89%	0.1563	2.85%
012	Starch (%)	41	40	24.14	2.145	24.08	2.142	0.4234	8.90%	0.5607	2.04%
013	Fat, Acid Pretreat (%)	50	49	18.17	1.964	18.40	0.9772	0.1745	5.31%	0.3755	2.33%
015	Aluminum (ppm)	17	16	10.18	6.570	9.386	5.102	1.594	54.36%	0.6432	11.42%
017	Boron (ppm)	19	18	4.218	1.511	3.976	0.8569	0.2525	21.55%	0.3522	13.00%
019	Calcium (%)	106	102	0.0600	0.0334	0.0538	0.0125	0.0016	23.31%	0.0039	6.21%
021	Cobalt (ppm)	19	13	0.8885	2.472	0.1973	0.1248	0.0433	63.25%	0.0251	20.42%
022	Copper (ppm)	81	73	5.999	1.885	5.779	1.329	0.1945	23.01%	0.3578	12.28%
025	Iron (ppm)	80	77	91.89	17.81	90.04	9.641	1.373	10.71%	3.113	8.13%
027	Magnesium (%)	90	89	0.8088	0.0701	0.8066	0.0534	0.0071	6.62%	0.0185	4.13%
028	Manganese (ppm)	89	88	172.7	15.26	172.5	12.36	1.647	7.17%	4.032	7.37%
030	Nitrate (%)	1	1	0.0020							
031	Phosphorus (%)	116	112	1.927	0.1752	1.943	0.1170	0.0138	6.02%	0.0535	3.62%
032	Potassium (%)	88	85	1.602	0.1583	1.605	0.1113	0.0151	6.94%	0.0333	3.72%
033	Salt as chloride (%)	36	31	0.1346	0.0633	0.1251	0.0308	0.0069	24.60%	0.0090	5.47%
034	Selenium, Total (Se) (ppm)	14	14	0.8731	1.835	0.3423	0.2382	0.0796	69.59%	0.0368	18.80%
035	Sodium (%)	59	47	0.0182	0.0310	0.0111	0.0064	0.0012	58.12%	0.0019	7.88%
036	Sulfur (%)	41	40	0.1603	0.0173	0.1617	0.0134	0.0026	8.29%	0.0052	5.26%
037	Zinc (ppm)	93	91	63.12	7.734	62.98	6.347	0.8316	10.08%	2.170	8.58%

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038	Molybdenum (ppm)	20	20	0.9580	0.2659	0.9185	0.1842	0.0515	20.05%	0.1014	16.20%
040	Barium (ppm)	4	4	11.89	1.004	11.89	1.004	0.5020	8.45%	0.3882	11.02%
041	Vanadium (ppm)	2	2	0.0811	0.0915						
042	Chloride (%)	3	3	0.1017	0.0617	0.1017	0.0617	0.0356	60.70%	0.0100	5.64%
101	Choline Chloride (ppm)	1	1	1,860							
102	Niacin (ppm)	1	1	317.0							
103	Pantothenic Acid (ppm)	1	1	34.50							
104	Riboflavin (ppm)	1	1	3.260							
105	Thiamine (ppm)	1	1	23.30							
106	Vitamin A (KU / kg)	2		0.6000							
107	Vitamin B12 (ppb)	1		4.400							
108	Vitamin D3 (KU / kg)	1		0.0400							
109	Vitamin E (IU / kg)	3	2	50.25	14.14	50.25	14.14	9.998	28.14%	1.484	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	1	1	8.860							
113	Folic Acid (ppm)	1	1	1.095							
114	Biotin (ppm)	1	1	0.2995							
115	Non Protein N (NPN) (%)	1	1	0.2750							
118	Peroxide value (meq/kg)	1	1	0.4000							
120	Alanine (%)	28	27	0.7862	0.0379	0.7910	0.0248	0.0060	3.13%	0.0145	4.14%
121	Arginine (%)	28	27	1.093	0.0626	1.094	0.0360	0.0087	3.29%	0.0216	3.95%
122	Aspartic (%)	28	28	1.182	0.1143	1.177	0.0331	0.0078	2.81%	0.0224	3.90%
124	Cysteine/Cystine (%)	27	26	0.2870	0.0353	0.2847	0.0282	0.0069	9.90%	0.0057	4.83%
125	Glutamic (%)	28	27	1.823	0.1230	1.823	0.0758	0.0182	4.16%	0.0216	3.65%
126	Glycine (%)	28	27	0.7064	0.0740	0.7169	0.0244	0.0059	3.41%	0.0117	4.21%
127	Histidine (%)	28	27	0.3702	0.0316	0.3726	0.0276	0.0066	7.40%	0.0088	4.64%
128	Isoleucine (%)	28	27	0.4525	0.0465	0.4503	0.0434	0.0104	9.64%	0.0090	4.51%
129	Leucine (%)	28	26	0.8835	0.0481	0.8884	0.0345	0.0085	3.88%	0.0113	4.07%
130	L-Lysine (%)	27	25	0.6299	0.0470	0.6336	0.0382	0.0095	6.03%	0.0068	4.28%
131	Methionine (%)	28	27	0.2753	0.0567	0.2653	0.0299	0.0072	11.28%	0.0065	4.88%
132	Phenylalanine (%)	28	26	0.5564	0.0403	0.5584	0.0320	0.0079	5.74%	0.0062	4.37%
133	Proline (%)	27	26	0.5799	0.1247	0.5644	0.0542	0.0133	9.60%	0.0138	4.36%
134	Serine (%)	28	28	0.5917	0.0577	0.5992	0.0357	0.0084	5.96%	0.0111	4.32%
135	Threonine (%)	28	27	0.4770	0.0435	0.4807	0.0187	0.0045	3.88%	0.0065	4.47%
136	Tryptophan (%)	15	15	0.1864	0.0335	0.1902	0.0192	0.0062	10.11%	0.0024	5.13%
137	Tyrosine (%)	26	25	0.4050	0.0701	0.4060	0.0630	0.0157	15.51%	0.0181	4.58%
138	Valine (%)	28	27	0.6926	0.0429	0.6952	0.0379	0.0091	5.45%	0.0143	4.22%
139	Taurine (%)	6	3	0.0357	0.0319	0.0357	0.0319	0.0230	89.37%	0.0000	6.61%
160	Fructose (%)	2	2	0.1525	0.0955						
161	Galactose (%)	1		0.0000							

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162	Glucose (%)	2	2	0.4500	0.3041						
163	Lactose (%)	2		0.0000							
164	Maltose (%)	2	1	0.2300							
165	Sucrose (%)	3	3	4.595	0.4592	4.595	0.4592	0.2651	9.99%	0.2167	3.18%
166	Raffinose (%)	2	2	0.4400	0.0495						
167	Stachyose (%)	2		0.0000							
400	Water Activity (Units)	13	12	0.4286	0.0471	0.4213	0.0254	0.0092	6.02%	0.0058	
413	Starch, Resistant (%)	1	1	29.16							
516	Arsenic, Total (As) (ppm)	12	10	0.8570	0.2538	0.9183	0.0959	0.0379	10.44%	0.0093	16.20%
518	Cadmium (ppm)	10	8	0.0148	0.0062	0.0149	0.0068	0.0030	45.47%	0.0026	22.00%
520	Chromium, Total (Cr) (ppm)	13	9	0.4916	0.4440	0.4603	0.4291	0.1788	93.20%	0.0590	17.98%
526	Lead (ppm)	8	5	0.0471	0.0495	0.0471	0.0495	0.0132	105.23%	0.0103	22.00%
529	Mercury (ppb)	3	1								
539	Nickel (ppm)	9	8	0.6064	0.2163	0.5630	0.0563	0.0249	10.00%	0.0219	17.44%
710	Lauric Acid (12:0) (%) (w/w)	1		0.0050							
714	Myristic Acid (14:0) (%) (w/w)	2	2	0.0613	0.0032						
716	Palmitic Acid (16:0) (%) (w/w)	2	2	2.679	0.2204						
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	2	2	0.0338	0.0032						
720	Margaric acid (17:0) (%) (w/w)	1		0.0000							
722	Stearic Acid (18:0) (%) (w/w)	2	2	0.3440	0.0113						
724	Oleic Acid (9c-18:1) (%) (w/w)	2	2	6.633	0.4731						
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	2	2	2.826	3.786						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	2	2	0.1982	0.0026						
730	Arachidic Acid (20:0) (%) (w/w)	2	1	0.1195							
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	2	0.0887	0.0014						
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	0.0679							
744	Erucic Acid (13c-22:1) (%) (w/w)	2		0.0000							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	1		0.0050							
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.1434							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	1		0.0050							
752	Nervonic Acid (24:1) isomers (%) (w/w)	1		0.0050							
758	Total Saturated Fatty Acids (%) (w/w)	1	1	3.258							
762	Total Monounsaturated Fatty Acids (%) (w/w)	1	1	7.089							
766	Total Polyunsaturated Fatty Acids (%) (w/w)	1	1	6.603							
772	Total Fatty Acids (%) (w/w)	2	2	16.16	1.117						

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.

Analyte and Method	Thompson Horwitz %RSD	Average Range (R-bar)	% RSD - Robust	Uncertainty (U) - Robust	AAFCCO ffp Robust SD	Assigned Value Robust Mean	Raw SD	Raw Mean	# Tests in Robust Calcs	Total # Tests Submitted	Analyte Group Code
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