



**AAFCO**  
Association of American Feed Control Officials



**Animal Feed Scheme**  
**Swine Feed, Medicated**  
**Test Material Code # 202226**

**Analyte Summary Report**

**# Labs Reporting: 169**  
**# Analytes Reported: 107**  
**Issue Date : 07/31/2022**

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	0.4000							
001	Loss on Drying (%)	73	71	11.64	0.6740	11.71	0.4770	0.0708	4.07%	0.1493	2.76%
002	Protein, Crude (%)	169	166	13.79	0.3669	13.79	0.2939	0.0285	2.13%	0.1647	2.69%
003	Fat, Crude (%)	135	132	2.358	0.2677	2.346	0.2389	0.0260	10.18%	0.1191	3.52%
004	Fiber, Crude (%)	114	111	3.688	0.3801	3.698	0.3091	0.0367	8.36%	0.1462	3.29%
005	Ash (%)	135	131	4.939	0.3758	4.927	0.2462	0.0269	5.00%	0.0820	3.15%
006	Total Sugars (%)	12	12	3.995	1.113	3.995	1.262	0.4554	31.59%	0.1813	3.25%
008	Fiber, Acid Detergent (%)	60	59	5.115	0.6569	5.100	0.4140	0.0674	8.12%	0.2253	3.13%
009	Fiber, Neutral Detergent (%)	57	55	14.05	0.9624	14.02	0.9084	0.1531	6.48%	0.2512	2.67%
010	Moisture (%)	23	22	11.77	0.6639	11.83	0.5785	0.1542	4.89%	0.0960	2.76%
011	Loss on Drying, HT (%)	74	72	12.44	0.5943	12.51	0.4453	0.0656	3.56%	0.1083	2.73%
012	Starch (%)	44	43	44.32	2.110	44.38	1.875	0.3574	4.22%	0.4113	1.50%
013	Fat, Acid Pretreat (%)	47	47	3.281	0.5217	3.254	0.4982	0.0908	15.31%	0.1419	3.35%
015	Aluminum (ppm)	12	12	47.57	13.54	47.37	11.10	4.005	23.43%	2.247	8.95%
017	Boron (ppm)	18	17	6.532	1.985	6.060	1.036	0.3140	17.09%	0.4757	12.20%
019	Calcium (%)	117	116	0.9027	0.0683	0.8987	0.0492	0.0057	5.47%	0.0270	4.06%
021	Cobalt (ppm)	13	10	0.6842	0.4219	0.6172	0.2942	0.1163	47.67%	0.2176	17.20%
022	Copper (ppm)	71	65	16.43	2.772	16.07	1.861	0.2886	11.58%	1.055	10.53%
025	Iron (ppm)	77	76	210.1	38.79	208.5	18.94	2.715	9.08%	6.871	7.16%
027	Magnesium (%)	84	82	0.1726	0.0164	0.1717	0.0107	0.0015	6.26%	0.0042	5.21%
028	Manganese (ppm)	83	80	69.49	12.03	68.46	5.411	0.7563	7.90%	2.110	8.47%
030	Nitrate (%)	1	1	0.0014							
031	Phosphorus (%)	114	110	0.4906	0.0311	0.4885	0.0243	0.0029	4.97%	0.0131	4.46%
032	Potassium (%)	84	83	0.7056	0.0611	0.7045	0.0450	0.0062	6.39%	0.0148	4.22%
033	Salt as chloride (%)	61	60	0.4072	0.0470	0.4062	0.0374	0.0060	9.21%	0.0103	4.58%
034	Selenium, Total (Se) (ppm)	15	13	1.752	4.547	0.4334	0.3589	0.1244	82.82%	0.0280	18.14%
035	Sodium (%)	84	82	0.2045	0.0182	0.2037	0.0110	0.0015	5.42%	0.0047	5.08%
036	Sulfur (%)	54	53	0.3253	0.0313	0.3259	0.0231	0.0040	7.08%	0.0094	4.73%
037	Zinc (ppm)	85	83	124.3	23.69	123.8	10.01	1.374	8.09%	4.244	7.75%

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038	Molybdenum (ppm)	16	15	1.091	0.0861	1.081	0.0634	0.0205	5.87%	0.0764	15.81%
040	Barium (ppm)	1	1	9.898							
041	Vanadium (ppm)	2	2	0.2587	0.0307						
042	Chloride (%)	4	3	0.2533	0.0116	0.2533	0.0116	0.0067	4.56%	0.0000	4.92%
099	Menadione (form) (ppm)	1	1	0.3250							
101	Choline Chloride (ppm)	1	1	1,315							
102	Niacin (ppm)	2	2	38.20	41.02						
103	Pantothenic Acid (ppm)	1	1	15.15							
104	Riboflavin (ppm)	3	3	4.254	0.4673	4.254	0.4673	0.2698	10.99%	0.6553	12.86%
105	Thiamine (ppm)	3	3	2.710	1.016	2.710	1.016	0.5866	37.49%	0.2867	13.77%
106	Vitamin A (KU / kg)	8	4	0.7451	0.0644	0.7451	0.0644	0.0402	8.64%	0.0837	
107	Vitamin B12 (ppb)	1	1	7.025							
108	Vitamin D3 (KU / kg)	4	1								
109	Vitamin E (IU / kg)	11	9	29.90	11.21	27.34	5.229	2.179	19.13%	1.163	
111	Vitamin C, Phosphorylated (ppm)	1		4.400							
112	Pyridoxine (µg / g)	2	2	2.693	1.149						
113	Folic Acid (ppm)	2	1	0.5650							
114	Biotin (ppm)	1	1	0.1710							
115	Non Protein N (NPN) (%)	2	2	0.5022	0.1595						
118	Peroxide value (meq/kg)	1	1	1.555							
120	Alanine (%)	32	32	0.6503	0.0365	0.6508	0.0349	0.0077	5.36%	0.0128	4.27%
121	Arginine (%)	32	31	0.8219	0.0522	0.8208	0.0400	0.0090	4.87%	0.0191	4.12%
122	Aspartic (%)	32	31	1.109	0.0637	1.104	0.0347	0.0078	3.15%	0.0197	3.94%
124	Cysteine/Cystine (%)	30	29	0.2442	0.0368	0.2481	0.0218	0.0051	8.80%	0.0065	4.93%
125	Glutamic (%)	32	31	2.553	0.1106	2.558	0.1115	0.0250	4.36%	0.0392	3.47%
126	Glycine (%)	32	31	0.6378	0.0261	0.6376	0.0169	0.0038	2.66%	0.0158	4.28%
127	Histidine (%)	32	32	0.3458	0.0283	0.3438	0.0234	0.0052	6.81%	0.0083	4.70%
128	Isoleucine (%)	32	31	0.4848	0.0485	0.4922	0.0325	0.0073	6.60%	0.0135	4.45%
129	Leucine (%)	32	32	0.9936	0.0556	0.9946	0.0366	0.0081	3.68%	0.0229	4.00%
130	L-Lysine (%)	35	34	0.6146	0.0815	0.6149	0.0381	0.0082	6.19%	0.0145	4.30%
131	Methionine (%)	31	31	0.2098	0.0223	0.2090	0.0176	0.0040	8.45%	0.0072	5.06%
132	Phenylalanine (%)	32	31	0.6041	0.0391	0.6001	0.0253	0.0057	4.22%	0.0125	4.32%
133	Proline (%)	31	31	0.8880	0.0715	0.8937	0.0387	0.0087	4.33%	0.0254	4.07%
134	Serine (%)	32	31	0.6148	0.0540	0.6164	0.0474	0.0106	7.68%	0.0136	4.30%
135	Threonine (%)	33	32	0.4661	0.0319	0.4663	0.0249	0.0055	5.34%	0.0104	4.49%
136	Tryptophan (%)	18	18	0.1680	0.0401	0.1645	0.0268	0.0079	16.30%	0.0042	5.25%
137	Tyrosine (%)	30	30	0.3960	0.0599	0.3946	0.0417	0.0095	10.58%	0.0123	4.60%
138	Valine (%)	32	31	0.6160	0.0399	0.6183	0.0369	0.0083	5.97%	0.0124	4.30%
139	Taurine (%)	5	3	0.0735	0.0816	0.0735	0.0816	0.0471	110.95%	0.0037	5.92%
160	Fructose (%)	1	1	0.2350							

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162	Glucose (%)	2	2	0.2600	0.0566						
163	Lactose (%)	2		0.0280							
164	Maltose (%)	2	1	0.1350							
165	Sucrose (%)	2	2	1.895	0.1061						
166	Raffinose (%)	1	1	0.4300							
167	Stachyose (%)	1	1	0.4500							
351	Chlortetracycline (ppm)	14	<b>13</b>	53.70	13.76	<b>56.46</b>	9.001	3.121	15.94%	2.840	8.72%
382	Sulfamethazine (ppm)	10	<b>10</b>	113.1	26.67	<b>115.2</b>	9.792	3.871	8.50%	10.55	7.83%
388	Tylosin (ppm)	7	<b>7</b>	84.53	39.84	<b>84.53</b>	45.18	21.35	53.45%	7.413	8.20%
400	Water Activity (Units)	15	<b>15</b>	0.6486	0.0206	<b>0.6496</b>	0.0145	0.0047	2.23%	0.0027	
516	Arsenic, Total (As) (ppm)	7	4	0.0351	0.0242	0.0351	0.0242	0.0151	68.92%	0.0017	22.00%
518	Cadmium (ppm)	8	<b>7</b>	0.0648	0.0029	<b>0.0647</b>	0.0031	0.0015	4.86%	0.0029	22.00%
520	Chromium, Total (Cr) (ppm)	10	<b>9</b>	1.584	0.4683	<b>1.572</b>	0.5022	0.2092	31.95%	0.0351	14.94%
526	Lead (ppm)	9	<b>8</b>	0.1211	0.0294	<b>0.1174</b>	0.0242	0.0107	20.57%	0.0076	22.00%
529	Mercury (ppb)	3	1								
539	Nickel (ppm)	6	<b>6</b>	1.211	0.2172	<b>1.197</b>	0.2134	0.1089	17.83%	0.0395	15.57%
710	Lauric Acid (12:0) (%) (w/w)	2		0.0050							
714	Myristic Acid (14:0) (%) (w/w)	1	1	0.0080							
716	Palmitic Acid (16:0) (%) (w/w)	1	1	0.4884							
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	2	2	0.0122	0.0004						
722	Stearic Acid (18:0) (%) (w/w)	1	1	0.0988							
724	Oleic Acid (9c-18:1) (%) (w/w)	1	1	0.5916							
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	2	2	1.397	0.0938						
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	2	2	0.0932	0.0075						
730	Arachidic Acid (20:0) (%) (w/w)	1	1	0.0080							
732	Gondoic Acid (11c-20:1) (%) (w/w)	1	1	0.0141							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	1		0.0100							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	2		0.0000							
742	Behenic Acid (22:0) (%) (w/w)	1	1	0.0077							
744	Erucic Acid (13c-22:1) (%) (w/w)	1		0.0050							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	2		0.0000							
748	Lignoceric Acid (24:0) (%) (w/w)	1		0.0050							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	2		0.0000							
752	Nervonic Acid (24:1) isomers (%) (w/w)	1		0.0050							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	1	1	0.1000							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	1	1	1.470							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	2.865							
772	Total Fatty Acids (%) (w/w)	1	1	2.647							

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.

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