



**AAFCO**  
Proficiency Testing Program



**Animal Feed Scheme**  
**Milk Replacer, Medicated**  
**Test Material Code # 201723**

**Analyte Summary Report**

**# Analytes Reported: 92**  
**# Labs Reporting: 198**  
**Issue Date : 04/30/2017**

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	0.70000							
001	Loss on Drying (%)	88	86	3.9054	0.83561	3.8261	0.35139	0.04736	9.18%	0.09536	3.27%
002	Protein (%)	193	190	23.052	0.93062	23.062	0.42363	0.03842	1.84%	0.20640	2.08%
003	Fat (%)	92	89	10.435	6.8975	10.119	7.1478	0.94708	70.64%	0.23465	2.82%
004	Fiber (%)	88	87	1.5942	2.9714	0.98147	0.35542	0.04763	36.21%	0.12380	4.01%
005	Ash (%)	145	142	10.130	0.46086	10.150	0.17773	0.01864	1.75%	0.06754	2.82%
006	Total sugars (%)	6	6	25.693	4.9693	25.693	5.6352	2.8757	21.93%	0.71900	1.97%
008	Fiber (%)	36	35	1.1723	0.53622	1.1250	0.39779	0.08405	35.36%	0.16743	3.93%
009	Fiber (%)	31	29	1.6224	0.65209	1.5267	0.43999	0.10213	28.82%	0.16744	3.75%
010	Moisture (%)	20	20	4.2896	1.6170	3.9689	0.75567	0.21122	19.04%	0.15721	3.25%
011	Loss on Drying (%)	61	60	8.0582	2.3324	8.0789	2.3170	0.37391	28.68%	0.18955	2.92%
012	Starch (%)	22	19	1.2985	1.8845	0.85765	0.50742	0.14551	59.16%	0.15632	4.09%
013	Fat (%)	73	69	23.291	1.3349	23.312	0.92040	0.13850	3.95%	0.24874	2.07%
015	Aluminum (mg / kg (ppm))	11	10	113.32	10.394	113.32	11.787	4.6593	10.40%	3.3820	7.85%
017	Boron (mg / kg (ppm))	11	11	3.4164	2.2833	2.8955	0.91670	0.34549	31.66%	0.48364	13.63%
019	Calcium (%)	147	144	1.7030	0.11676	1.7057	0.08448	0.00880	4.95%	0.03718	3.69%
021	Cobalt (mg / kg (ppm))	17	17	0.50187	0.23349	0.50378	0.22880	0.06937	45.42%	0.15445	17.74%
022	Copper (mg / kg (ppm))	79	78	9.6089	5.0678	9.0200	3.7347	0.52859	41.40%	1.5356	11.49%
024	Iodine (mg / kg (ppm))	2	2	5.3500	0.48790						
025	Iron (mg / kg (ppm))	82	81	177.08	47.367	176.13	39.704	5.5145	22.54%	17.859	7.35%
027	Magnesium (%)	98	95	0.12202	0.01530	0.12245	0.00912	0.00117	7.45%	0.00385	5.49%
028	Manganese (mg / kg (ppm))	82	81	47.820	6.1892	47.671	6.0612	0.84183	12.71%	3.7318	8.94%
031	Phosphorus (%)	140	138	0.76886	0.05059	0.76783	0.03571	0.00380	4.65%	0.01440	4.16%
032	Potassium (%)	100	98	2.0491	0.23078	2.0399	0.12254	0.01547	6.01%	0.05393	3.59%
033	Salt as chloride (%)	49	48	1.7770	0.15662	1.7916	0.06693	0.01208	3.74%	0.02518	3.66%
034	Selenium (mg / kg (ppm))	19	19	0.64003	0.16614	0.61584	0.13176	0.03778	21.39%	0.07006	17.21%
035	Sodium (%)	104	102	0.66219	0.06591	0.65883	0.04472	0.00553	6.79%	0.01444	4.26%
036	Sulfur (%)	39	38	0.36886	0.03661	0.36510	0.02364	0.00479	6.47%	0.00995	4.65%
037	Zinc (mg / kg (ppm))	85	82	82.499	17.501	81.877	13.352	1.8431	16.31%	6.0198	8.24%
038	Molybdenum (mg / kg (ppm))	12	12	0.74974	0.18435	0.72179	0.12856	0.04639	17.81%	0.03337	16.80%

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040	Barium (mg / kg (ppm))	2	2	1.0775	0.07425						
042	Chloride (%)	2	2	1.1078	0.00389						
101	Choline Chloride (mg / kg (ppm))	4	4	2,254.6	847.09	2,254.6	847.09	423.55	37.57%	87.750	5.00%
102	Niacin (mg / kg (ppm))	3	3	28.658	14.805	28.658	14.805	8.5477	51.66%	2.0500	9.65%
103	Pantothenic Acid (mg / kg (ppm))	3	3	71.508	6.2307	71.508	6.2307	3.5973	8.71%	2.3167	8.41%
104	Riboflavin (mg / kg (ppm))	4	4	9.8975	1.0934	9.8975	1.0934	0.54670	11.05%	1.3450	11.33%
105	Thiamine (mg / kg (ppm))	5	5	9.2090	2.6460	9.2090	2.6460	1.1833	28.73%	0.57400	11.45%
106	Vitamin A (KU / kg)	26	25	40.771	9.5038	41.291	8.4508	2.1127	20.47%	3.1708	
107	Vitamin B12 (µg / kg (ppb))	1	1	96.200							
108	Vitamin D3 (KU / kg)	10	10	8.8457	4.0716	9.3532	3.4732	1.3729	37.13%	0.75300	
109	Vitamin E (IU/kg)	21	20	240.09	92.152	245.93	89.454	25.003	36.37%	17.218	
111	Vitamin C, phosphorylated (mg / kg (ppm))	3	2	62.548	18.947	62.548	18.947	13.398	30.29%	1.8650	8.58%
112	Pyridoxine (µg / g)	2	2	30.742	40.034						
113	Folic Acid (mg / kg (ppm))	3	3	0.92500	0.40215	0.92500	0.40215	0.23218	43.48%	0.15667	16.19%
114	Biotin (mg / kg (ppm))	2	2	0.41925	0.14248						
120	Alanine (%)	25	25	1.1021	0.03810	1.1026	0.03938	0.00985	3.57%	0.02185	3.94%
121	Arginine (%)	24	23	0.60228	0.02312	0.60187	0.02483	0.00647	4.13%	0.01503	4.32%
122	Aspartic (%)	25	24	2.4300	0.07166	2.4267	0.06755	0.01724	2.78%	0.04612	3.50%
124	Cysteine/Cystine (%)	23	23	0.51681	0.06373	0.52077	0.03463	0.00903	6.65%	0.01204	4.41%
125	Glutamic (%)	25	25	4.0331	0.10642	4.0325	0.11331	0.02833	2.81%	0.07160	3.24%
126	Glycine (%)	25	25	0.46167	0.02296	0.46078	0.01476	0.00369	3.20%	0.00930	4.49%
127	Histidine (%)	24	24	0.44755	0.03366	0.44311	0.02194	0.00560	4.95%	0.01274	4.52%
128	Isoleucine (%)	25	25	1.3609	0.05830	1.3689	0.03798	0.00949	2.77%	0.02524	3.82%
129	Leucine (%)	25	24	2.3525	0.07749	2.3600	0.06320	0.01613	2.68%	0.03820	3.51%
130	L-Lysine (%)	33	32	2.1833	0.14334	2.1809	0.15155	0.03349	6.95%	0.10332	3.56%
131	Methionine (%)	25	24	0.49183	0.09739	0.47708	0.04516	0.01152	9.47%	0.02238	4.47%
132	Phenylalanine (%)	25	24	0.77064	0.03842	0.77215	0.03454	0.00881	4.47%	0.01890	4.16%
133	Proline (%)	24	24	1.3778	0.05924	1.3803	0.05873	0.01499	4.26%	0.03098	3.81%
134	Serine (%)	25	24	1.1792	0.05415	1.1760	0.04641	0.01184	3.95%	0.02140	3.90%
135	Threonine (%)	25	25	1.5225	0.05412	1.5225	0.04380	0.01095	2.88%	0.02603	3.75%
136	Tryptophan (%)	13	13	0.39384	0.02857	0.39765	0.02151	0.00746	5.41%	0.00672	4.60%
137	Tyrosine (%)	19	18	0.61756	0.08999	0.62519	0.07301	0.02151	11.68%	0.01971	4.29%
138	Valine (%)	25	25	1.3144	0.06137	1.3111	0.05096	0.01274	3.89%	0.02514	3.84%
139	Taurine (%)	5	5	0.06360	0.04999	0.06360	0.04999	0.02236	78.60%	0.01680	6.05%
160	Fructose (%)	3									
161	Galactose (%)	1		0.00000							
162	Glucose (%)	5	3	0.37500	0.09500	0.37500	0.09500	0.05485	25.33%	0.07000	4.64%
163	Lactose (%)	10	9	30.151	2.4941	30.372	2.2856	0.95234	7.53%	0.25867	1.81%

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164	Maltose (%)	2		0.00000							
165	Sucrose (%)	5	2	0.25500	0.06364	0.25500	0.06364	0.04500	24.96%	0.01000	4.91%
166	Raffinose (%)	1		0.00000							
167	Stachyose (%)	1		0.00000							
351	Chlortetracycline (mg/kg (ppm))	22	21	100.41	27.167	102.73	22.949	6.2599	22.34%	5.0968	7.97%
354	Decoquinatate (mg/kg (ppm))	13	13	135.07	12.650	137.46	8.6544	3.0004	6.30%	3.7901	7.62%
361	Lasalocid sodium (mg/kg (ppm))	18	18	59.524	9.3085	59.752	9.8908	2.9141	16.55%	3.0303	8.64%
400	Water activity (Units)	6	6	0.25888	0.02277	0.25888	0.02582	0.01318	9.98%	0.00933	
516	Arsenic, total (mg / kg (ppm))	3	3	0.04090	0.01700	0.04090	0.01700	0.00981	41.56%	0.00513	22.00%
518	Cadmium (mg / kg (ppm))	4	3	0.01315	0.00152	0.01315	0.00152	0.00088	11.56%	0.00170	22.00%
520	Chromium (mg / kg (ppm))	6	6	6.1751	4.0299	6.1751	4.5699	2.3321	74.00%	0.63050	12.16%
526	Lead (mg / kg (ppm))	4	4	0.10794	0.00920	0.10794	0.00920	0.00460	8.52%	0.00463	22.00%
529	Mercury (µg / kg (ppb))	1	1	5.1950							
539	Nickel (mg / kg (ppm))	3	3	2.4462	0.40608	2.4462	0.40608	0.23445	16.60%	0.28007	13.98%
710	Lauric Acid (12:0) (% (w/w))	1	1	0.91250							
718	Palmitoleic Acid (9c-16:1) (% (w/w))	1	1	0.36750							
726	Linoleic Acid (9c,12c-18:2) (% (w/w))	1	1	3.8650							
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (% (w/w))	1	1	0.23150							
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (% (w/w))	1	1	0.07900							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (% (w/w))	1	1	0.18700							
746	Docosapentaenoic Acid n-3 DPA (DHA)7c,10c,13c,16c,19c-22:5) (% (w/w))	1	1	0.01700							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c,22:6) (% (w/w))	1	1	0.00000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids	1	1	0.45500							
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids	1	1	4.1350							

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.