

**Animal Feed Scheme**  
**Milk Replacer**  
**Test Material Code # 201829**

**Analyte Summary Report**

**# Analytes Reported: 106**  
**# Labs Reporting: 200**  
**Issue Date : 10/31/2018**

Analyte Group Code	Analyte and Method	Total # Tests Submitted	# Tests in Robust Calcs	Raw Mean	Raw SD	Assigned Value Robust Mean	AAFCO PT ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Average Range (R-bar)	Horwitz %RSD
000	Urea (%)	1	1	0.60000							
001	Loss on Drying (%)	88	85	4.6646	0.86223	4.6202	0.40683	0.05516	8.81%	0.10869	3.18%
002	Protein, Crude (%)	196	194	24.697	0.55327	24.696	0.45384	0.04073	1.84%	0.20348	2.01%
003	Fat, Crude (%)	119	117	10.543	5.4476	10.380	5.8067	0.67103	55.94%	0.23318	2.81%
004	Fiber, Crude (%)	56	48	0.42473	0.41514	0.36046	0.28233	0.05094	78.32%	0.05741	4.66%
005	Ash (%)	151	148	8.4784	0.42051	8.4708	0.13826	0.01421	1.63%	0.05553	2.90%
006	Total Sugars (%)	4	4	23.934	6.3965	23.934	6.3965	3.9978	26.73%	0.55250	2.04%
008	Fiber, Acid Detergent (%)	22	14	0.45367	0.61828	0.32449	0.24461	0.08172	75.38%	0.12110	4.74%
009	Fiber, Neutral Detergent (%)	23	20	3.2071	8.4164	0.56700	0.40252	0.11251	70.99%	0.17289	4.36%
010	Moisture (%)	26	25	4.9531	1.1446	4.8081	0.90597	0.22649	18.84%	0.08085	3.16%
011	Loss on Drying (%)	67	66	9.2523	2.4972	9.3243	2.2790	0.35066	24.44%	0.22382	2.86%
012	Starch (%)	19	15	2.6113	3.5119	2.1914	3.0032	0.96929	137.04%	0.16225	3.55%
013	Fat, Acid Pretreat (%)	76	74	19.072	1.2126	19.184	0.90650	0.13172	4.73%	0.27063	2.28%
015	Aluminum (mg / kg (ppm))	14	14	28.576	7.3664	27.565	5.3637	1.7919	19.46%	1.6035	9.71%
017	Boron (mg / kg (ppm))	16	15	2.9754	0.84830	2.9342	0.78636	0.25380	26.80%	0.30353	13.60%
019	Calcium (%)	149	144	0.88116	0.06752	0.87672	0.05234	0.00545	5.97%	0.01941	4.08%
021	Cobalt (mg / kg (ppm))	13	10	0.50210	1.2716	0.10775	0.04586	0.01813	42.57%	0.00899	22.00%
022	Copper (mg / kg (ppm))	88	86	11.214	4.0737	10.827	2.9367	0.39584	27.12%	1.5322	11.18%
023	Fluorine (mg / kg (ppm))	1	1	1.8850							
025	Iron (mg / kg (ppm))	81	79	111.88	14.674	111.29	13.555	1.9063	12.18%	7.6263	7.87%
027	Magnesium (%)	92	91	0.11339	0.00843	0.11319	0.00783	0.00103	6.91%	0.00347	5.55%
028	Manganese (mg / kg (ppm))	81	79	43.444	8.8354	43.625	6.5029	0.91454	14.91%	3.1881	9.06%
031	Phosphorus (%)	142	137	0.73185	0.04768	0.73163	0.03784	0.00404	5.17%	0.01321	4.19%
032	Potassium (%)	93	92	2.0999	0.18749	2.1145	0.11389	0.01484	5.39%	0.05485	3.57%
033	Salt as chloride (%)	56	54	1.9900	0.12488	2.0052	0.09399	0.01599	4.69%	0.03169	3.60%
034	Selenium (mg / kg (ppm))	21	20	0.79625	0.63113	0.63015	0.13892	0.03883	22.04%	0.05145	17.15%
035	Sodium (%)	103	102	0.73461	0.04630	0.73459	0.04406	0.00545	6.00%	0.02213	4.19%
036	Sulfur (%)	42	40	0.35196	0.03117	0.35157	0.02473	0.00489	7.03%	0.01064	4.68%
037	Zinc (mg / kg (ppm))	86	82	53.724	11.248	53.180	7.1175	0.98250	13.38%	4.6320	8.80%
038	Molybdenum (mg / kg (ppm))	18	17	0.63299	0.18650	0.64759	0.16176	0.04904	24.98%	0.09199	17.08%
040	Barium (mg / kg (ppm))	2	2	0.30695	0.03104						
042	Chloride (%)	2	2	1.2150	0.02121						

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104	Riboflavin (mg / kg (ppm))	2	2	13.833	9.2171						
105	Thiamine (mg / kg (ppm))	1	1	9.1800							
106	Vitamin A (KU / kg)	23	23	46.316	10.824	46.783	8.5178	2.2201	18.21%	4.1353	
108	Vitamin D3 (KU / kg)	6	6	10.515	4.3961	11.364	2.8455	1.4521	25.04%	0.50333	
109	Vitamin E (IU / kg)	15	15	201.74	82.900	212.58	68.428	22.085	32.19%	7.5007	
111	Vitamin C, Phosphorylated (mg / kg (ppm))	6	5	156.64	96.167	156.64	96.167	53.582	61.39%	13.852	7.48%
118	Peroxide value (meq/kg)	1	1	2.2900							
120	Alanine (%)	32	32	1.2117	0.07581	1.2005	0.05552	0.01227	4.62%	0.02421	3.89%
121	Arginine (%)	32	32	0.62037	0.04521	0.62285	0.03678	0.00813	5.91%	0.01486	4.30%
122	Aspartic (%)	32	31	2.5746	0.15876	2.5674	0.09397	0.02110	3.66%	0.04263	3.47%
124	Cysteine/Cystine (%)	32	31	0.52307	0.10448	0.53764	0.06142	0.01379	11.42%	0.01382	4.39%
125	Glutamic (%)	32	32	4.3447	0.38881	4.3086	0.23328	0.05155	5.41%	0.08360	3.21%
126	Glycine (%)	32	32	0.48837	0.02780	0.48555	0.02337	0.00516	4.81%	0.01496	4.46%
127	Histidine (%)	32	31	0.45565	0.04246	0.46169	0.02610	0.00586	5.65%	0.01184	4.49%
128	Isoleucine (%)	32	30	1.4835	0.10169	1.4829	0.06654	0.01519	4.49%	0.02055	3.77%
129	Leucine (%)	32	31	2.5469	0.10897	2.5337	0.08536	0.01916	3.37%	0.03264	3.48%
130	L-Lysine (%)	35	34	2.1785	0.13576	2.1740	0.12423	0.02663	5.71%	0.07021	3.56%
131	Methionine (%)	35	34	0.44909	0.09356	0.45454	0.03195	0.00685	7.03%	0.01040	4.50%
132	Phenylalanine (%)	32	32	0.82160	0.04025	0.82060	0.04348	0.00961	5.30%	0.01521	4.12%
133	Proline (%)	31	31	1.5144	0.12814	1.5212	0.10581	0.02376	6.96%	0.04383	3.76%
134	Serine (%)	32	31	1.2706	0.07003	1.2684	0.06295	0.01413	4.96%	0.02193	3.86%
135	Threonine (%)	33	32	1.6387	0.07645	1.6357	0.07924	0.01751	4.84%	0.02573	3.71%
136	Tryptophan (%)	17	17	0.42116	0.05136	0.42104	0.05800	0.01758	13.78%	0.01089	4.56%
137	Tyrosine (%)	25	25	0.68898	0.10039	0.68682	0.07820	0.01955	11.39%	0.02410	4.23%
138	Valine (%)	32	31	1.4167	0.09928	1.4265	0.07029	0.01578	4.93%	0.01846	3.79%
139	Taurine (%)	9	9	0.10744	0.10591	0.09088	0.07607	0.03170	83.70%	0.01423	5.74%
160	Fructose (%)	5									
161	Galactose (%)	1	1	0.22650							
162	Glucose (%)	6	3	0.45000	0.31225	0.45000	0.31225	0.22535	69.39%	0.10000	4.51%
163	Lactose (%)	21	20	35.450	4.9766	36.002	3.8097	1.0649	10.58%	0.58010	1.67%
164	Maltose (%)	3	1								
165	Sucrose (%)	4									
166	Raffinose (%)	2		0.00000							
167	Stachyose (%)	2		0.00000							
323	Diflubenzuron (mg/kg (ppm))	2	2	3.9350	1.0394						
361	Lasalocid Sodium (mg/kg (ppm))	18	18	29.876	6.6543	29.237	3.7903	1.1167	12.96%	2.0025	9.63%
400	Water Activity (Units)	8	8	0.32809	0.01852	0.32809	0.02100	0.00928	6.40%	0.00371	
412	Starch, Dietary (%)	1	1	0.27000							
516	Arsenic, Total (mg / kg (ppm))	6	4	0.03571	0.03240	0.03571	0.03240	0.02025	90.73%	0.00508	22.00%
518	Cadmium (mg / kg (ppm))	4	2	0.00483	0.00025	0.00483	0.00025	0.00022	5.18%	0.00105	22.00%

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520	Chromium (mg / kg (ppm))	6	6	0.19183	0.10662	0.19183	0.12091	0.06170	63.03%	0.01460	20.51%
526	Lead (mg / kg (ppm))	5	4	0.03436	0.00207	0.03436	0.00207	0.00129	6.02%	0.00418	22.00%
529	Mercury (µg / kg (ppb))	1	1	0.96350							
539	Nickel (mg / kg (ppm))	3	3	0.09410	0.02518	0.09410	0.02518	0.01817	26.76%	0.00607	22.00%
702	Butyric Acid (4:0) (%)	1	1	0.10050							
704	Caproic Acid (6:0) (%)	1	1	0.05250							
706	Caprylic acid (8:0) (%) (w/w)	1	1	0.23650							
708	Capric acid (10:0) (%) (w/w)	1	1	0.22600							
710	Lauric Acid (12:0) (%) (w/w)	4	4	0.61450	0.19211	0.61450	0.19211	0.12007	31.26%	0.01460	
714	Myristic Acid (14:0) (%) (w/w)	3	3	0.68725	0.19953	0.68725	0.19953	0.14400	29.03%	0.01650	
716	Palmitic Acid (16:0) (%) (w/w)	3	3	4.2450	0.20495	4.2450	0.20495	0.14791	4.83%	0.18760	
718	Palmitoleic Acid (9c-16:1) (%) (w/w)	4	4	0.32670	0.04636	0.32670	0.04636	0.02898	14.19%	0.00895	
722	Stearic Acid (18:0) (%) (w/w)	2	2	2.7751	0.65040						
724	Oleic Acid (9c-18:1) (%) (w/w)	3	3	5.9452	0.31699	5.9452	0.31699	0.22877	5.33%	0.20073	
726	Linoleic Acid (9c,12c-18:2) (%) (w/w)	4	4	2.7877	0.07649	2.7877	0.07649	0.04781	2.74%	0.08115	
728	alpha-Linolenic Acid (9c,12c,15c-18:3) (%) (w/w)	4	4	0.15716	0.01714	0.15716	0.01714	0.01071	10.91%	0.00458	
730	Arachidic Acid (20:0) (%) (w/w)	2	2	0.05438	0.02493						
732	Gondoic Acid (11c-20:1) (%) (w/w)	2	2	0.12873	0.00675						
736	Arachidonic Acid (5c,8c,11c,14c-20:4) (%) (w/w)	2	2	0.05000	0.00424						
738	Mead Acid (11c,14c,17c-20:3) (%) (w/w)	1	1	0.05600							
740	Eicosapentaenoic Acid EPA (5c,8c,11c,14c,17c-20:5) (%) (w/w)	3									
742	Behenic Acid (22:0) (%) (w/w)	2	2	0.02275	0.00318						
744	Erucic Acid (13c-22:1) (%) (w/w)	2		0.00000							
746	Docosapentaenoic Acid n-3 DPA (7c,10c,13c,16c,19c-22:5) (%) (w/w)	3	3	0.03097	0.03467	0.03097	0.03467	0.02502	111.95%	0.00127	
748	Lignoceric Acid (24:0) (%) (w/w)	1	1	0.01575							
750	Docosahexaenoic Acid DHA (4c,7c,10c,13c,16c,19c-22:6) (%) (w/w)	3									
752	Nervonic Acid (24:1) isomers (%) (w/w)	2		0.00000							
754	Total n-3 Polyunsaturated (Omega-3) Fatty Acids (%) (w/w)	3	3	0.17333	0.00577	0.17333	0.00577	0.00416	3.33%	0.00000	
756	Total n-6 Polyunsaturated (Omega-6) Fatty Acids (%) (w/w)	3	3	2.8167	0.16563	2.8167	0.16563	0.11953	5.88%	0.03333	
758	Total Saturated Fatty Acids (%) (w/w)	1	1	8.0600							
762	Total Monounsaturated Fatty Acids (%) (w/w)	1	1	6.6850							
766	Total Polyunsaturated Fatty Acids (%) (w/w)	1	1	3.0100							
770	Total Fat (equivalent to NLEA) (%) (w/w)	1	1	18.745							
772	Total Fatty Acids (%) (w/w)	2	2	17.821	0.09712						

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.