

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201229

Swine Pre-starter, Medicated



AAFCO

Association of American Feed Control Officials

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.99	1		0.04000														
001.00	11	8	9.5413	0.74545	9.5413	0.84534	0.21133	8.86%	0.74277	0.08923	0.74811	7.78%	0.94%	7.84%	8.3838	0.09250	2.85%
001.03	21	20	9.3221	0.19759	9.3221	0.22406	0.03543	2.40%	0.19471	0.01586	0.19535	2.09%	0.17%	2.10%	12.315	0.01934	2.86%
001.05	1		9.7350														
001.07	41	39	9.1976	0.56327	9.2233	0.51072	0.05783	5.54%	0.45431	0.12355	0.47081	4.92%	1.34%	5.09%	3.8106	0.15386	2.86%
001.08	4	4	9.2813	0.18517	9.2813	0.18517	0.06547	2.00%		0.04655			0.50%			0.06250	2.86%
001.99	17	14	9.2156	0.97294	9.4133	0.44677	0.08443	4.75%	0.36823	0.09738	0.38089	3.89%	1.03%	4.03%	3.9115	0.10329	2.85%
002.00	5	5	23.009	1.4591	23.009	1.4591	0.46141	6.34%	0.12383	0.09493	0.15603	0.55%	0.42%	0.70%	1.6436	0.13000	2.49%
002.01	12	12	22.316	0.15087	22.318	0.16659	0.03400	0.75%	0.13692	0.08960	0.16363	0.61%	0.40%	0.73%	1.8263	0.07950	2.51%
002.02	7	7	22.215	0.41979	22.221	0.34575	0.09241	1.56%	0.41681	0.07061	0.42275	1.88%	0.32%	1.90%	5.9874	0.08389	2.51%
002.03	2	2	22.133	0.84499													
002.04	7	6	22.017	0.38175	22.011	0.42310	0.12214	1.92%	0.37879	0.06721	0.38470	1.72%	0.31%	1.75%	5.7242	0.08667	2.51%
002.05	50	47	22.283	0.23214	22.304	0.21791	0.02248	0.98%	0.20911	0.04245	0.21338	0.94%	0.19%	0.96%	5.0264	0.05383	2.51%
002.06	223	139	22.551	0.40459	22.580	0.28047	0.01682	1.24%	0.31610	0.14076	0.34602	1.40%	0.62%	1.53%	2.4583	0.15980	2.50%
002.07	1		22.540														
002.08	3	3	22.433	0.29573	22.433	0.29573	0.12073	1.32%	0.26867	0.17477	0.32051	1.20%	0.78%	1.43%	1.8339	0.19253	2.50%
002.10	2	2	22.128	0.74688													
002.11	4	4	22.619	1.6557	22.619	1.6557	0.58539	7.32%	0.11000	0.08916	0.14160	0.47%	0.38%	0.60%	1.5881	0.09250	2.50%
002.99	5	5	22.670	0.74107	22.670	0.74107	0.23435	3.27%	0.73595	0.12304	0.74616	3.25%	0.54%	3.29%	6.0642	0.14400	2.50%
003.00	23	22	3.5154	0.27327	3.5264	0.23378	0.03524	6.63%	0.28318	0.06232	0.28995	8.07%	1.78%	8.26%	4.6529	0.09188	3.31%
003.01	1		2.9500														
003.06	19	18	3.4911	0.18638	3.4704	0.13084	0.02181	3.77%	0.09779	0.06957	0.12001	2.82%	2.01%	3.46%	1.7249	0.09333	3.32%
003.07	1		5.2200														
003.09	22	21	3.5755	0.17810	3.5392	0.09708	0.01498	2.74%	0.11680	0.03460	0.12182	3.30%	0.98%	3.45%	3.5212	0.04716	3.31%
003.10	37	34	3.3933	0.17311	3.3780	0.14335	0.01738	4.24%	0.10695	0.09514	0.14314	3.17%	2.82%	4.24%	1.5046	0.12338	3.33%
003.11	4	4	3.4475	0.51359	3.4475	0.51359	0.18158	14.90%	0.51351	0.01323	0.51368	14.89%	0.38%	14.90%	38.830	0.01500	3.32%
003.12	19	18	3.5256	0.14202	3.5297	0.13819	0.02303	3.91%	0.12431	0.01985	0.12589	3.51%	0.56%	3.55%	6.3411	0.03444	3.31%

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003.13	8	7	3.4564	0.21914	3.4041	0.13701	0.03662	4.02%	0.21402	0.06660	0.22414	6.19%	1.93%	6.48%	3.3655	0.08143	3.33%
003.14	33	32	3.4448	0.37896	3.4714	0.28692	0.03587	8.27%	0.27825	0.12367	0.30450	7.95%	3.53%	8.70%	2.4621	0.14602	3.32%
003.99	11	9	3.6278	0.85074	3.5101	0.15603	0.03678	4.45%	0.35248	0.07437	0.36024	10.47%	2.21%	10.70%	4.8437	0.08444	3.31%
004.00	29	28	1.8108	0.31736	1.8153	0.23474	0.03137	12.93%	0.23428	0.03826	0.23738	13.19%	2.15%	13.37%	6.2036	0.07579	3.66%
004.01	2	2	2.3500	0.07071													
004.03	3	3	2.1917	0.63579	2.1917	0.63579	0.25956	29.01%	0.63283	0.08670	0.63874	28.87%	3.96%	29.14%	7.3674	0.10333	3.55%
004.06	47	46	2.0268	0.34512	2.0011	0.28577	0.02979	14.28%	0.29921	0.04618	0.30276	14.71%	2.27%	14.88%	6.5559	0.06116	3.60%
004.07	61	59	1.8970	0.31172	1.9040	0.25094	0.02310	13.18%	0.26080	0.08465	0.27419	13.53%	4.39%	14.22%	3.2391	0.08669	3.63%
004.11	3	3	1.8367	0.33650	1.8367	0.33650	0.13738	18.32%	0.33625	0.01826	0.33675	18.31%	0.99%	18.33%	18.445	0.02000	3.65%
004.99	3	3	1.7283	0.41474	1.7283	0.41474	0.16932	24.00%	0.38837	0.20579	0.43953	22.47%	11.91%	25.43%	2.1358	0.26333	3.68%
005.00	190	114	7.0003	0.18126	7.0090	0.15541	0.01029	2.22%	0.13825	0.05985	0.15065	1.97%	0.85%	2.15%	2.5171	0.06368	2.98%
005.02	2	2	7.0900	0.36770													
005.03	2	2	6.9650	0.23335													
005.05	31	30	7.0621	0.14213	7.0625	0.15103	0.01950	2.14%	0.14474	0.02299	0.14655	2.05%	0.33%	2.07%	6.3748	0.04092	2.98%
005.11	2	2	6.5050	0.62933													
005.99	14	14	7.1343	0.19672	7.1283	0.20510	0.03876	2.88%	0.19371	0.04848	0.19969	2.72%	0.68%	2.80%	4.1192	0.04714	2.98%
006.00	2	2	6.4350	0.89803													
006.01	1		12.000														
006.99	3	3	13.882	4.0225	13.882	4.0225	1.6422	28.98%	4.0150	0.34711	4.0300	28.92%	2.50%	29.03%	11.610	0.39000	2.69%
008.02	12	11	3.2627	0.72102	3.2280	0.73690	0.15711	22.83%	0.71922	0.07205	0.72282	22.04%	2.21%	22.15%	10.033	0.08727	3.35%
008.05	2	2	3.6285	0.11102													
008.08	32	31	3.0532	0.89182	2.8531	0.55544	0.07054	19.47%	0.76643	0.12888	0.77719	25.96%	4.36%	26.32%	6.0304	0.14915	3.42%
008.99	5	5	2.8980	0.54512	2.8980	0.54512	0.17238	18.81%	0.52609	0.20194	0.56351	18.15%	6.97%	19.44%	2.7905	0.23600	3.41%
009.04	1		6.7800														
009.07	11	11	6.9447	1.0100	6.8842	1.0015	0.21351	14.55%	0.99137	0.27329	1.0283	14.28%	3.94%	14.81%	3.7628	0.28491	2.99%
009.09	28	27	6.2550	0.96812	6.0937	0.66470	0.09045	10.91%	0.74261	0.15758	0.75915	12.11%	2.57%	12.38%	4.8176	0.18612	3.05%
009.99	4	4	7.6188	2.5283	7.6188	2.5283	0.89389	33.19%	2.5243	0.19984	2.5322	33.13%	2.62%	33.24%	12.671	0.23750	2.95%
010.03	6	6	8.7899	1.2625	9.0845	0.92681	0.26755	10.20%	1.2579	0.15229	1.2671	14.31%	1.73%	14.42%	8.3199	0.19068	2.87%
010.11	2	2	9.3825	0.25809													
010.99	12	11	9.2477	0.48265	9.1814	0.28862	0.06153	3.14%	0.47918	0.08163	0.48609	5.18%	0.88%	5.26%	5.9549	0.09035	2.86%
011.01	157	79	10.611	0.39770	10.654	0.31368	0.02495	2.94%	0.31832	0.11387	0.33808	2.99%	1.07%	3.17%	2.9690	0.12836	2.80%
011.02	4	2	10.305	0.44548	10.305	0.44548	0.22274	4.32%								0.36000	2.82%
011.99	2	2	10.130	0.80610													
012.00	10	9	31.789	2.0946	31.967	0.31531	0.07432	0.99%	2.0906	0.18108	2.0985	6.58%	0.57%	6.60%	11.589	0.17333	2.37%
012.01	6	6	28.489	1.6873	28.489	1.9134	0.55235	6.72%	1.6072	0.72650	1.7638	5.64%	2.55%	6.19%	2.4277	0.72500	2.42%
012.02	2	2	30.881	1.8118													
012.03	2	2	29.730	0.31113													
012.04	8	7	30.206	2.2532	29.510	0.85440	0.22835	2.90%	0.76352	0.25907	0.80628	2.60%	0.88%	2.74%	3.1122	0.36857	2.40%

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012.11	1		36.745														
013.00	17	16	4.3745	0.59537	4.2639	0.45073	0.07968	10.57%	0.50314	0.07317	0.50843	11.73%	1.71%	11.85%	6.9484	0.10004	3.22%
013.02	102	27	4.6490	0.33198	4.6701	0.33175	0.04515	7.10%	0.33280	0.08212	0.34278	7.15%	1.76%	7.37%	4.1743	0.09880	3.17%
013.08	1		2.3700														
013.10	16	15	4.0758	0.45023	4.1397	0.26507	0.04840	6.40%	0.27686	0.15282	0.31624	6.65%	3.67%	7.59%	2.0693	0.17171	3.23%
013.12	1		3.8500														
013.13	3	3	3.9500	0.11358	3.9500	0.11358	0.04637	2.88%	0.08206	0.11106	0.13808	2.08%	2.81%	3.50%	1.2434	0.15333	3.25%
014.99	1		10.650														
015.41	6	5	318.16	28.181	318.16	28.181	8.9116	8.86%	22.546	2.9560	22.739	6.89%	0.90%	6.95%	7.6923	8.6067	6.72%
015.42	2	2	196.25	65.407													
015.43	6	6	196.20	63.201	196.20	71.670	20.689	36.53%	62.738	10.805	63.662	31.98%	5.51%	32.45%	5.8920	13.800	7.23%
015.52	1		313.56														
015.53	1		258.00														
017.41	2	2	13.383	0.24395													
017.42	4	4	14.024	1.3303	14.024	1.3303	0.47032	9.49%	1.2776	0.52403	1.3809	9.11%	3.74%	9.85%	2.6351	0.69250	10.75%
017.43	4	4	15.081	2.5142	15.081	2.5142	0.88892	16.67%	2.5128	0.12088	2.5157	16.66%	0.80%	16.68%	20.811	0.13250	10.63%
017.53	1		12.900														
019.00	34	32	0.96349	0.06415	0.96161	0.04979	0.00622	5.18%	0.04756	0.01713	0.05055	4.97%	1.79%	5.29%	2.9504	0.01926	4.02%
019.03	3	3	0.94942	0.09298	0.94942	0.09298	0.03796	9.79%	0.09239	0.01472	0.09356	9.73%	1.55%	9.85%	6.3554	0.01683	4.03%
019.08	11	11	1.0492	0.10045	1.0239	0.06596	0.01406	6.44%	0.10203	0.00841	0.10237	9.65%	0.80%	9.68%	12.169	0.01278	3.99%
019.31	33	32	0.95498	0.06377	0.96429	0.03741	0.00468	3.88%	0.03873	0.01963	0.04342	4.02%	2.04%	4.50%	2.2121	0.02259	4.02%
019.32	8	8	0.98543	0.04286	0.98543	0.04860	0.01215	4.93%	0.04204	0.01180	0.04366	4.27%	1.20%	4.43%	3.7007	0.01318	4.01%
019.33	2	2	0.98600	0.00141													
019.41	41	41	0.97934	0.04918	0.98232	0.04124	0.00455	4.20%	0.04097	0.02560	0.04831	4.17%	2.60%	4.92%	1.8872	0.02568	4.01%
019.42	23	23	1.0077	0.04774	1.0049	0.04835	0.00713	4.81%	0.04577	0.01921	0.04964	4.54%	1.91%	4.93%	2.5844	0.02122	4.00%
019.43	12	12	0.99488	0.06973	1.0031	0.05126	0.01046	5.11%	0.04993	0.01157	0.05126	4.95%	1.15%	5.08%	4.4302	0.01092	4.00%
019.44	2	2	1.0125	0.07566													
019.52	1		0.91060														
019.53	3	3	0.97767	0.03656	0.97767	0.03656	0.01492	3.74%	0.03504	0.01474	0.03801	3.58%	1.51%	3.89%	2.5785	0.01733	4.01%
019.99	5	5	0.97100	0.09141	0.97100	0.09141	0.02891	9.41%	0.06550	0.09017	0.11145	6.75%	9.29%	11.48%	1.2360	0.08600	4.02%
021.31	1		1.0000														
021.41	4	4	1.0134	0.12580	1.0134	0.12580	0.04448	12.41%	0.12264	0.01544	0.12361	11.67%	1.47%	11.76%	8.0063	0.06513	15.96%
021.42	2	2	0.73225	0.17854													
021.43	4	4	1.0500	0.17668	1.0500	0.17668	0.06247	16.83%	0.17415	0.04213	0.17918	16.59%	4.01%	17.06%	4.2529	0.05000	15.88%
021.52	1		0.94850														
021.53	1		0.78300														
022.31	17	17	196.41	12.917	199.64	6.1728	1.0586	3.09%	9.0467	2.3623	9.3500	4.55%	1.19%	4.71%	3.9580	2.5118	7.21%
022.32	4	4	179.53	59.781	179.53	59.781	21.136	33.30%	59.769	1.6459	59.792	33.29%	0.92%	33.30%	36.327	1.9550	7.32%

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022.33	1		194.50														
022.41	33	33	201.04	21.664	198.35	15.252	1.8775	7.69%	17.045	4.7538	17.695	8.62%	2.41%	8.95%	3.7224	5.8971	7.22%
022.42	21	21	211.34	13.483	211.53	14.546	2.2446	6.88%	12.646	6.6111	14.270	5.98%	3.13%	6.75%	2.1585	6.9929	7.15%
022.43	11	11	201.58	15.023	201.58	17.036	3.6321	8.45%	14.534	5.3761	15.497	7.21%	2.67%	7.69%	2.8825	6.0682	7.20%
022.44	1		185.50														
022.52	1		209.42														
022.53	3	3	204.42	1.2332	204.42	1.2332	0.50346	0.60%		6.0554			2.96%			6.3000	7.18%
022.99	1		207.72														
025.31	17	17	550.33	53.014	553.31	36.246	6.2162	6.55%	52.116	13.738	53.897	9.47%	2.50%	9.79%	3.9233	14.442	6.18%
025.32	3	3	579.41	21.022	579.41	21.022	8.5821	3.63%	15.100	20.684	25.609	2.61%	3.57%	4.42%	1.2381	27.530	6.14%
025.33	1		519.00														
025.41	34	32	543.88	42.047	549.52	33.806	4.2258	6.15%	35.916	8.8878	37.000	6.54%	1.62%	6.74%	4.1630	10.447	6.19%
025.42	17	16	530.21	83.380	536.06	74.434	13.158	13.89%	82.499	17.089	84.251	15.56%	3.22%	15.89%	4.9300	17.120	6.21%
025.43	10	10	530.06	58.741	534.60	53.364	11.933	9.98%	57.560	12.930	58.994	10.73%	2.41%	10.99%	4.5626	16.344	6.22%
025.52	1		525.33														
025.53	2	2	507.25	49.144													
025.99	1		560.74														
027.31	13	12	0.17074	0.01119	0.17077	0.01149	0.00234	6.73%	0.01070	0.00149	0.01080	6.31%	0.88%	6.37%	7.2262	0.00202	5.22%
027.32	5	5	0.17014	0.00945	0.17014	0.00945	0.00299	5.56%	0.00802	0.00708	0.01070	4.71%	4.16%	6.29%	1.5100	0.00628	5.22%
027.34	1		0.15810														
027.41	28	28	0.16934	0.01474	0.16755	0.00616	0.00082	3.68%	0.00738	0.00454	0.00866	4.45%	2.73%	5.22%	1.9098	0.00457	5.23%
027.42	18	17	0.17208	0.01838	0.16991	0.01221	0.00209	7.19%	0.01074	0.00380	0.01140	6.38%	2.26%	6.76%	2.9989	0.00334	5.22%
027.43	9	8	0.16919	0.01582	0.16805	0.01523	0.00381	9.06%	0.01574	0.00027	0.01575	9.19%	0.16%	9.19%	58.915	0.00038	5.23%
027.52	1		0.15550														
027.53	2	2	0.16075	0.00601													
028.31	18	18	62.297	4.5138	62.763	4.1923	0.69872	6.68%	4.3996	1.4269	4.6252	7.06%	2.29%	7.42%	3.2415	1.4756	8.58%
028.32	4	4	62.329	7.7064	62.329	7.7064	2.7246	12.36%	7.4482	2.7974	7.9562	11.95%	4.49%	12.76%	2.8442	3.5125	8.59%
028.33	1		51.000														
028.41	32	31	64.222	3.6712	63.876	2.8678	0.36421	4.49%	2.3496	2.2820	3.2753	3.68%	3.58%	5.13%	1.4353	2.5034	8.56%
028.42	21	20	66.602	3.3700	66.753	3.2165	0.50858	4.82%	3.2643	1.5375	3.6083	4.90%	2.31%	5.41%	2.3469	1.8105	8.50%
028.43	11	10	64.652	3.3652	64.722	3.6876	0.82457	5.70%	3.3971	0.66814	3.4622	5.23%	1.03%	5.33%	5.1818	1.1520	8.54%
028.44	1		57.550														
028.52	1		54.900														
028.53	3	3	65.533	2.6629	65.533	2.6629	1.0871	4.06%	0.97254	3.5057	3.6381	1.48%	5.35%	5.55%	1.0378	4.3333	8.52%
028.99	1		64.426														
031.00	1		0.66500														
031.01	71	69	0.67096	0.02841	0.67357	0.02307	0.00196	3.42%	0.02300	0.00790	0.02432	3.42%	1.18%	3.62%	3.0785	0.01027	4.24%
031.02	4	4	0.82228	0.29852	0.82228	0.29852	0.10554	36.30%	0.00707	0.00000	0.00707	1.05%	0.00%	1.05%		0.00025	4.12%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sT	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.03	5	5	0.66850	0.00834	0.66850	0.00834	0.00264	1.25%	0.00495	0.00949	0.01070	0.74%	1.42%	1.60%	1.1277	0.01016	4.25%
031.06	3	3	0.64733	0.06133	0.64733	0.06133	0.02504	9.47%	0.02679	0.00300	0.02695	3.93%	0.44%	3.96%	8.9846	0.02200	4.27%
031.41	41	40	0.66473	0.02958	0.66557	0.02698	0.00302	4.05%	0.02196	0.01264	0.02534	3.30%	1.90%	3.81%	2.0045	0.01378	4.25%
031.42	23	23	0.64905	0.05042	0.65279	0.04612	0.00680	7.06%	0.04007	0.01425	0.04253	6.11%	2.17%	6.49%	2.9856	0.01532	4.26%
031.43	13	13	0.67527	0.02591	0.67525	0.02109	0.00414	3.12%	0.02460	0.01148	0.02715	3.64%	1.70%	4.02%	2.3653	0.01055	4.24%
031.44	2	2	0.64918	0.06410													
031.52	1		0.69335														
031.53	3	3	0.66567	0.02145	0.66567	0.02145	0.00876	3.22%	0.02864	0.00050	0.02864	4.28%	0.07%	4.28%	57.280	0.01000	4.25%
031.99	6	6	0.64333	0.03882	0.64759	0.03436	0.00992	5.31%	0.04275	0.00837	0.04356	6.63%	1.30%	6.75%	5.2065	0.01667	4.27%
032.02	6	6	1.1621	0.06118	1.1621	0.06937	0.02003	5.97%	0.05904	0.02265	0.06324	5.08%	1.95%	5.44%	2.7918	0.02550	3.91%
032.31	17	16	1.1549	0.06818	1.1662	0.05440	0.00962	4.66%	0.05192	0.01987	0.05559	4.45%	1.70%	4.77%	2.7982	0.02915	3.91%
032.32	3	3	1.1800	0.04272	1.1800	0.04272	0.01744	3.62%	0.04093	0.01732	0.04444	3.47%	1.47%	3.77%	2.5658	0.02000	3.90%
032.33	1		1.2445														
032.41	25	25	1.1855	0.08866	1.1714	0.05650	0.00799	4.82%	0.04856	0.04356	0.06523	4.13%	3.71%	5.55%	1.4976	0.04745	3.91%
032.42	20	20	1.2170	0.07691	1.1982	0.03506	0.00554	2.93%	0.05279	0.02301	0.05758	4.38%	1.91%	4.77%	2.5028	0.02937	3.89%
032.43	11	11	1.1980	0.05335	1.1925	0.04069	0.00868	3.41%	0.03196	0.01834	0.03685	2.70%	1.55%	3.11%	2.0090	0.02046	3.90%
032.52	1		1.1908														
032.53	2	2	1.1943	0.02227													
032.99	1		1.1800														
033.00	43	42	1.1179	0.13631	1.1331	0.06267	0.00684	5.53%	0.06241	0.01038	0.06326	5.46%	0.91%	5.54%	6.0938	0.01443	3.93%
033.01	38	37	1.2185	0.05912	1.2172	0.02893	0.00336	2.38%	0.04326	0.00926	0.04424	3.53%	0.76%	3.61%	4.7763	0.01303	3.88%
033.03	8	7	1.1036	0.09499	1.1070	0.10108	0.02701	9.13%	0.09437	0.01535	0.09561	8.55%	1.39%	8.66%	6.2272	0.01571	3.94%
033.05	5	5	1.1040	0.17683	1.1040	0.17683	0.05592	16.02%		0.03500			2.96%		0.02800	3.94%	
033.99	12	12	1.1148	0.12753	1.1363	0.09647	0.01969	8.49%	0.08335	0.05402	0.09933	7.30%	4.73%	8.70%	1.8387	0.05033	3.92%
034.01	2	2	0.40675	0.01662													
034.04	8	7	0.34964	0.08796	0.37379	0.03469	0.00927	9.28%	0.02138	0.01564	0.02649	5.60%	4.10%	6.94%	1.6941	0.01471	18.55%
034.42	1		1.5650														
034.43	2	2	0.37900	0.04525													
034.52	1		0.66450														
034.53	5	5	1.0353	1.4512	1.0353	1.4512	0.45890	140.17%	0.12342	0.08461	0.14964	31.77%	21.78%	38.52%	1.7686	0.31260	15.91%
034.99	2	2	1.3250	1.1667													
035.01	4	4	0.42225	0.01297	0.42225	0.01297	0.00459	3.07%	0.01166	0.00803	0.01416	2.76%	1.90%	3.35%	1.7631	0.00850	4.55%
035.05	9	9	0.40646	0.02761	0.40500	0.02852	0.00672	7.04%	0.02604	0.01298	0.02910	6.41%	3.19%	7.16%	2.2413	0.01382	4.58%
035.31	23	23	0.43657	0.06589	0.42363	0.02786	0.00411	6.58%	0.01998	0.01259	0.02362	4.76%	3.00%	5.63%	1.8759	0.01423	4.55%
035.32	5	5	0.44458	0.05106	0.44458	0.05106	0.01615	11.48%	0.05076	0.00780	0.05135	11.42%	1.75%	11.55%	6.5869	0.00856	4.52%
035.33	1		0.38600														
035.41	38	38	0.41202	0.03089	0.40972	0.02329	0.00267	5.69%	0.02329	0.00841	0.02476	5.68%	2.05%	6.04%	2.9435	0.00926	4.57%
035.42	19	18	0.44068	0.12075	0.42037	0.02149	0.00358	5.11%	0.03909	0.00973	0.04028	9.45%	2.35%	9.74%	4.1379	0.01096	4.56%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fip - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
035.43	11	11	0.40632	0.01963	0.40646	0.02195	0.00468	5.40%	0.01898	0.00713	0.02027	4.67%	1.75%	4.99%	2.8448	0.00827	4.58%
035.52	1		0.42970														
035.53	2	2	0.40525	0.00389													
036.00	1		0.33000														
036.04	3	3	0.31333	0.02466	0.31333	0.02466	0.01007	7.87%	0.02432	0.00577	0.02500	7.76%	1.84%	7.98%	4.3301	0.00667	4.76%
036.42	19	19	0.29149	0.01451	0.29161	0.01620	0.00263	5.55%	0.01390	0.00586	0.01509	4.77%	2.01%	5.18%	2.5745	0.00629	4.81%
036.43	8	8	0.29538	0.02091	0.29608	0.02222	0.00556	7.50%	0.01701	0.01720	0.02419	5.76%	5.82%	8.19%	1.4063	0.01600	4.80%
036.53	1		0.27350														
037.31	23	23	3,254.9	185.33	3,273.9	170.15	25.087	5.20%	174.98	83.299	193.79	5.39%	2.57%	5.97%	2.3265	89.216	4.73%
037.32	6	6	2,989.6	871.14	3,317.2	103.04	29.744	3.11%	48.215	70.231	85.188	1.44%	2.10%	2.55%	1.2130	73.518	4.72%
037.33	4	4	3,348.3	117.60	3,348.3	117.60	41.577	3.51%	116.15	26.057	119.03	3.47%	0.78%	3.56%	4.5682	26.556	4.72%
037.41	34	33	3,137.6	845.86	3,301.4	257.51	31.698	7.80%	228.98	72.451	240.17	6.92%	2.19%	7.26%	3.3149	80.610	4.73%
037.42	19	19	3,186.6	813.18	3,321.9	265.16	43.015	7.98%	261.24	100.70	279.97	7.78%	3.00%	8.34%	2.7804	123.15	4.72%
037.43	15	15	3,158.9	803.16	3,331.2	244.44	44.629	7.34%	203.49	45.351	208.48	6.06%	1.35%	6.21%	4.5971	50.163	4.72%
037.44	1		3,209.0														
037.52	1		2,822.0														
037.53	3	3	3,058.5	130.79	3,058.5	130.79	53.393	4.28%	91.591	132.03	160.69	2.99%	4.32%	5.25%	1.2171	154.33	4.78%
037.99	2	2	3,571.9	238.43													
038.41	2	2	3,462.0	0.90934													
038.42	3	3	3,691.7	0.58169	3,691.7	0.58169	0.23747	15.76%	0.55541	0.24444	0.60682	15.05%	6.62%	16.44%	2.4825	0.23667	13.14%
038.43	6	6	3,920.0	0.36740	3,961.4	0.32120	0.09272	8.11%	0.36879	0.04550	0.37158	9.57%	1.18%	9.64%	8.1671	0.09333	13.00%
038.52	1		4,010.5														
038.53	1		4,095.0														
040.42	1		2,105.0														
050.00	1		0.00815														
050.01	12	12	0.00540	0.00098	0.00522	0.00044	0.00009	8.34%	0.00038	0.00011	0.00039	7.32%	2.07%	7.61%	3.6704	0.00009	8.82%
057.01	1		2,645.0														
101.02	2	2	782.41	129.52													
101.99	1		24,374.0														
103.01	1		5,580.0														
104.00	1		10,100.0														
104.03	1		6,650.0														
105.00	2	2	4,097.1	5,787.5													
105.01	1		2,150.0														
105.99	1		1,089.0														
106.00	1		11,500.0														
106.01	1		8,145.0														
106.02	17	16	7,941.7	3,057.0	7,570.3	2,127.7	0.37613	28.11%	2,002.3	0,39490	2,040.9	27.10%	5.34%	27.62%	5,168.1	0,48739	

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
108.02	3	3	1.8988	1.5586	1.8988	1.5586	0.63630	82.08%	1.5550	0.15044	1.5622	81.89%	7.92%	82.27%	10.384	0.19700	
109.02	13	12	191.73	47.089	194.40	27.741	5.6626	14.27%	30.381	3.9311	30.634	14.79%	1.91%	14.91%	7.7927	4.8265	7.24%
110.99	1		1.9400														
112.99	1		4.7300														
113.99	1		2.4515														
114.99	1		293.50														
120.00	18	17	1.1211	0.04802	1.1118	0.02697	0.00463	2.43%	0.03257	0.01962	0.03802	2.92%	1.76%	3.41%	1.9381	0.02452	3.94%
120.01	1		1.1150														
120.02	2	2	1.1469	0.03302													
120.05	3	3	1.0992	0.02676	1.0992	0.02676	0.01092	2.43%	0.03780	0.00206	0.03786	3.44%	0.19%	3.45%	18.364	0.01760	3.94%
121.00	18	17	1.4204	0.06612	1.4110	0.04946	0.00848	3.51%	0.04609	0.01927	0.04996	3.28%	1.37%	3.56%	2.5921	0.02391	3.80%
121.01	2	2	1.4445	0.02192													
121.02	2	2	1.4837	0.04989													
121.05	3	3	1.3830	0.05254	1.3830	0.05254	0.02145	3.80%	0.05079	0.01900	0.05423	3.67%	1.37%	3.92%	2.8541	0.02400	3.81%
122.00	18	17	2.2770	0.08442	2.2804	0.08403	0.01441	3.68%	0.08365	0.02127	0.08631	3.67%	0.93%	3.78%	4.0586	0.03122	3.53%
122.01	2	2	2.2503	0.00672													
122.02	2	2	2.3443	0.03783													
122.05	3	3	2.2982	0.10498	2.2982	0.10498	0.04286	4.57%	0.09777	0.05406	0.11172	4.25%	2.35%	4.86%	2.0667	0.06967	3.53%
123.99	1		3.7400														
124.00	17	16	0.33784	0.03220	0.34434	0.02325	0.00411	6.75%	0.03090	0.01283	0.03346	9.15%	3.80%	9.90%	2.6068	0.01306	4.70%
124.01	2	2	0.33250	0.00354													
124.02	1		0.37150														
124.05	2	2	0.32500	0.08273													
125.00	17	16	3.7625	0.20653	3.7753	0.15012	0.02654	3.98%	0.20379	0.04743	0.20924	5.42%	1.26%	5.56%	4.4113	0.05001	3.27%
125.01	2	2	3.7923	0.18703													
125.02	2	2	3.8173	0.00177													
125.05	3	3	3.7432	0.11467	3.7432	0.11467	0.04682	3.06%	0.10235	0.07314	0.12580	2.73%	1.95%	3.36%	1.7199	0.09100	3.28%
126.00	18	17	0.95634	0.03393	0.95602	0.03649	0.00626	3.82%	0.02766	0.02184	0.03524	2.88%	2.28%	3.67%	1.6136	0.02546	4.03%
126.01	2	2	0.99050	0.09334													
126.02	2	2	0.96878	0.05554													
126.05	3	3	0.94850	0.01212	0.94850	0.01212	0.00495	1.28%	0.01129	0.00626	0.01291	1.19%	0.66%	1.36%	2.0623	0.00633	4.03%
127.00	17	17	0.65436	0.03459	0.64813	0.02081	0.00357	3.21%	0.01979	0.01826	0.02693	3.05%	2.82%	4.16%	1.4746	0.02017	4.27%
127.01	2	2	0.61025	0.00813													
127.02	2	2	0.68855	0.04943													
127.05	3	3	0.63283	0.02485	0.63283	0.02485	0.01014	3.93%	0.02402	0.00897	0.02564	3.80%	1.42%	4.05%	2.8581	0.01033	4.28%
128.00	18	18	0.87019	0.06264	0.87712	0.03818	0.00636	4.35%	0.04799	0.01827	0.05135	5.46%	2.08%	5.84%	2.8113	0.02506	4.08%
128.01	2	2	0.92000	0.04243													
128.02	2	2	0.92293	0.00626													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
128.05	3	3	0.85767	0.11385	0.85767	0.11385	0.04648	13.27%	0.01739	0.00453	0.01797	1.88%	0.49%	1.95%	3.9679	0.03267	4.09%
129.00	18	18	1.8596	0.08603	1.8647	0.04210	0.00702	2.26%	0.02686	0.02724	0.03825	1.44%	1.46%	2.05%	1.4043	0.03943	3.64%
129.01	2	2	1.8558	0.01520													
129.02	2	2	1.9258	0.00955													
129.05	3	3	1.8642	0.03220	1.8642	0.03220	0.01314	1.73%	0.03041	0.01495	0.03389	1.63%	0.80%	1.82%	2.2667	0.01500	3.64%
130.00	19	18	1.5032	0.05965	1.5052	0.02728	0.00455	1.81%	0.06065	0.01423	0.06230	4.03%	0.95%	4.14%	4.3784	0.01955	3.76%
130.01	3	3	1.5358	0.07568	1.5358	0.07568	0.03090	4.93%	0.07283	0.02910	0.07843	4.74%	1.89%	5.11%	2.6950	0.02967	3.75%
130.02	2	2	1.5656	0.02839													
130.05	6	5	1.5904	0.04493	1.5904	0.04493	0.01421	2.83%	0.04356	0.01557	0.04626	2.74%	0.98%	2.91%	2.9713	0.01760	3.73%
130.99	1		1.4950														
131.00	17	17	0.30854	0.02853	0.30801	0.03070	0.00526	9.97%	0.02705	0.01188	0.02954	8.82%	3.88%	9.64%	2.4864	0.01282	4.78%
131.01	2	2	0.32500	0.02051													
131.02	2	2	0.31605	0.00912													
131.05	4	4	0.29375	0.02469	0.29375	0.02469	0.00873	8.41%	0.00520	0.00150	0.00541	1.70%	0.49%	1.77%	3.6056	0.01000	4.81%
132.00	18	17	1.0988	0.06973	1.1058	0.02366	0.00406	2.14%	0.03585	0.01136	0.03761	3.26%	1.03%	3.42%	3.3097	0.01640	3.94%
132.01	2	2	1.1123	0.01732													
132.02	2	2	1.1459	0.04193													
132.05	3	3	1.0807	0.01806	1.0807	0.01806	0.00737	1.67%	0.01746	0.00651	0.01863	1.62%	0.60%	1.72%	2.8640	0.00800	3.95%
133.00	18	18	1.2385	0.08296	1.2240	0.04302	0.00717	3.51%	0.05881	0.03124	0.06660	4.80%	2.55%	5.44%	2.1314	0.03457	3.88%
133.04	1		1.2000														
133.05	3	3	1.2542	0.08654	1.2542	0.08654	0.03533	6.90%	0.08553	0.01862	0.08754	6.82%	1.48%	6.98%	4.7003	0.02100	3.87%
134.00	18	17	1.0755	0.07515	1.0735	0.04366	0.00749	4.07%	0.05248	0.02869	0.05981	4.81%	2.63%	5.48%	2.0844	0.03646	3.96%
134.01	2	2	1.0605	0.07566													
134.02	2	2	1.0340	0.02263													
134.05	3	3	1.1063	0.07130	1.1063	0.07130	0.02911	6.44%	0.07100	0.00922	0.07159	6.42%	0.83%	6.47%	7.7654	0.01200	3.94%
135.00	18	18	0.99361	0.03540	0.99451	0.02886	0.00481	2.90%	0.03050	0.02540	0.03969	3.07%	2.56%	3.99%	1.5626	0.02693	4.00%
135.01	2	2	1.0033	0.02298													
135.02	2	2	1.0115	0.02192													
135.05	4	4	0.98688	0.05252	0.98688	0.05252	0.01857	5.32%	0.05231	0.00664	0.05273	5.30%	0.67%	5.34%	7.9376	0.00875	4.01%
136.00	2	2	0.27515	0.07121													
136.01	7	7	0.25857	0.03972	0.25857	0.04504	0.01204	17.42%	0.03943	0.00676	0.04000	15.25%	2.61%	15.47%	5.9163	0.00743	4.90%
136.03	2	2	0.27525	0.01450													
136.05	1		0.20900														
136.99	3	3	0.28650	0.00304	0.28650	0.00304	0.00124	1.06%	0.00220	0.00297	0.00370	0.77%	1.04%	1.29%	1.2439	0.00300	4.83%
137.00	12	12	0.69017	0.10718	0.70817	0.05211	0.01064	7.36%	0.04204	0.03293	0.05340	5.85%	4.59%	7.44%	1.6216	0.03390	4.21%
137.01	2	2	0.80350	0.00071													
137.02	2	2	0.80085	0.04900													
137.05	3	3	0.62850	0.11639	0.62850	0.11639	0.04752	18.52%	0.11629	0.00670	0.11649	18.50%	1.07%	18.53%	17.397	0.00833	4.29%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sI	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
138.00	18	18	1.1054	0.07283	1.1046	0.04716	0.00786	4.27%	0.03384	0.01817	0.03841	3.06%	1.64%	3.47%	2.1135	0.02722	3.94%
138.01	2	2	1.1318	0.10147													
138.02	2	2	1.2301	0.07347													
138.05	3	3	1.0805	0.10559	1.0805	0.10559	0.04311	9.77%	0.10535	0.01007	0.10583	9.75%	0.93%	9.79%	10.505	0.01167	3.95%
139.00	3	3	0.09550	0.12569	0.09550	0.12569	0.05131	131.61%	0.12552	0.00914	0.12586	131.44%	9.57%	131.79%	13.773	0.01033	5.70%
139.02	1		0.00000														
139.05	1		0.00500														
140.01	1		0.24750														
142.00	1		0.16850														
160.99	1		0.05500														
161.99	1		0.66050														
162.99	1		0.00000														
163.99	5	5	8.3591	2.7025	8.3591	2.7025	0.85459	32.33%	2.6974	0.23347	2.7075	32.27%	2.79%	32.39%	11.597	0.26220	2.91%
164.99	1		0.00000														
165.99	1		1.9015														
166.99	1		0.18500														
167.99	1		0.53100														
400.01	1		0.57000														
516.00	1		0.14500														
516.52	1		0.14250														
516.53	1		0.07750														
518.41	2	2	0.11613	0.01962													
518.52	1		0.12500														
518.53	1		0.09815														
520.41	2	2	3.9933	0.69756													
520.43	2	2	6.0125	0.57629													
520.52	1		6.9295														
520.53	1		3.7780														
526.31	2	2	0.98325	0.30653													
526.41	1		0.46800														
526.52	1		0.82100														
526.53	1		0.82850														
529.99	1		1.4500														
539.31	1		3.5150														
539.41	1		3.5945														
539.43	1		4.7100														
539.52	1		4.6400														
539.53	1		3.1095														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
600.01	1	1	1.7500														
600.12	1	1	1.6700														
601.92	1	1	1.5500														
610.07	1	1	235.00														
610.23	1	1	68.590														
621.23	1	1	149.95														
622.23	1	1	0.00000														
623.23	1	1	0.00000														
630.23	1	1	0.00000														
640.23	1	1	0.00000														
650.06	1	1	95.000														
650.24	1	1	0.00000														