

# AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201325

Pelleted Beef Special, Medicated



# AAFCO

## Check Sample Program

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.99	2	0															
001.00	8	6	7.9767	0.12588	8.0142	0.17231	0.04605	2.15%	0.12075	0.05033	0.13082	1.51%	0.63%	1.64%	2.5991	0.06429	2.92%
001.01	1		8.7250														
001.03	13	13	7.9190	0.13790	7.8953	0.11249	0.02206	1.42%	0.13764	0.01185	0.13815	1.74%	0.15%	1.74%	11.656	0.01305	2.93%
001.05	1		8.1000														
001.07	32	29	7.8552	0.34736	7.8481	0.31601	0.04013	4.03%	0.34320	0.07580	0.35147	4.37%	0.97%	4.47%	4.6367	0.10849	2.93%
001.08	3	3	8.0100	0.17776	8.0100	0.17776	0.07257	2.22%	0.16310	0.10000	0.19131	2.04%	1.25%	2.39%	1.9131	0.13333	2.92%
001.99	20	17	7.6926	0.68649	7.9433	0.28992	0.04832	3.65%	0.68522	0.05902	0.68775	8.91%	0.77%	8.94%	11.653	0.07200	2.93%
002.00	4	4	17.401	1.2716	17.401	1.2716	0.44956	7.31%	1.2577	0.26479	1.2853	7.23%	1.52%	7.39%	4.8539	0.27750	2.60%
002.01	9	9	16.867	0.14560	16.852	0.07231	0.01704	0.43%	0.11978	0.11706	0.16749	0.71%	0.69%	0.99%	1.4308	0.14222	2.61%
002.02	4	4	16.894	0.24284	16.894	0.24284	0.08586	1.44%	0.23750	0.07167	0.24808	1.41%	0.42%	1.47%	3.4613	0.09060	2.61%
002.03	1		15.115														
002.04	4	4	16.704	0.60044	16.704	0.60044	0.21229	3.59%	0.58307	0.20276	0.61732	3.49%	1.21%	3.70%	3.0445	0.23750	2.62%
002.05	39	35	16.881	0.18784	16.879	0.19199	0.02202	1.14%	0.18290	0.06053	0.19266	1.08%	0.36%	1.14%	3.1830	0.07025	2.61%
002.06	212	128	17.158	0.31184	17.143	0.30322	0.01832	1.77%	0.29940	0.12330	0.32380	1.75%	0.72%	1.89%	2.6261	0.15276	2.61%
002.07	1		16.880														
002.08	3	3	17.158	0.09218	17.158	0.09218	0.03763	0.54%	0.07043	0.08410	0.10970	0.41%	0.49%	0.64%	1.3044	0.09543	2.61%
002.10	3	3	16.795	0.35845	16.795	0.35845	0.14634	2.13%	0.26883	0.33531	0.42977	1.60%	2.00%	2.56%	1.2817	0.45533	2.62%
002.11	1		17.260														
002.99	3	2	17.030	0.32527	17.003	0.23459	0.09577	1.38%	0.32527	0.00000	0.32527	1.91%	0.00%	1.91%		0.03333	2.61%
003.00	14	11	3.0173	0.40533	2.8890	0.29214	0.05729	10.11%	0.40184	0.07508	0.40879	13.32%	2.49%	13.55%	5.4450	0.08769	3.41%
003.01	3	3	2.5416	0.00271	2.5416	0.00271	0.00111	0.11%		0.11626			4.57%			0.11773	3.48%
003.06	17	15	2.6550	0.18197	2.6440	0.18167	0.03212	6.87%	0.18037	0.03403	0.18355	6.79%	1.28%	6.91%	5.3938	0.05819	3.46%
003.07	1		3.7350														
003.09	27	23	2.7011	0.14373	2.6952	0.13613	0.01925	5.05%	0.13517	0.06910	0.15181	5.00%	2.56%	5.62%	2.1969	0.07376	3.45%
003.10	38	32	2.4989	0.21889	2.4792	0.14584	0.01769	5.88%	0.21444	0.06207	0.22325	8.58%	2.48%	8.93%	3.5964	0.07962	3.49%
003.11	2	0															

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003.12	11	9	2.6307	0.27791	2.6074	0.17176	0.03841	6.59%	0.27777	0.01226	0.27805	10.56%	0.47%	10.57%	22.676	0.01925	3.46%
003.13	6	3	2.5263	0.06245	2.4198	0.23881	0.07552	9.87%	0.05376	0.04494	0.07007	2.13%	1.78%	2.77%	1.5593	0.10280	3.50%
003.14	33	29	2.5496	0.27633	2.5736	0.27042	0.03380	10.51%	0.26972	0.08501	0.28280	10.58%	3.33%	11.09%	3.3265	0.12703	3.47%
003.99	9	6	2.7433	0.12115	2.7596	0.13454	0.03596	4.88%	0.11519	0.05307	0.12683	4.20%	1.93%	4.62%	2.3897	0.10029	3.43%
004.00	23	20	24.199	1.2249	24.146	1.1900	0.18362	4.93%	1.2165	0.20323	1.2333	5.03%	0.84%	5.10%	6.0686	0.25129	2.48%
004.01	1		25.700														
004.03	4	4	22.264	4.4628	22.264	4.4628	1.5778	20.05%	4.4493	0.49004	4.4762	19.98%	2.20%	20.11%	9.1344	0.58250	2.51%
004.06	37	34	24.117	1.2936	24.106	1.2178	0.14352	5.05%	1.2830	0.23412	1.3042	5.32%	0.97%	5.41%	5.5704	0.26322	2.48%
004.07	55	52	23.893	1.4861	23.865	1.5670	0.15078	6.57%	1.4625	0.37317	1.5094	6.12%	1.56%	6.32%	4.0447	0.40258	2.48%
004.11	1		17.850														
004.99	3	3	23.673	1.9845	23.673	1.9845	0.81017	8.38%	1.9559	0.47487	2.0127	8.26%	2.01%	8.50%	4.2385	0.60667	2.48%
005.00	181	108	13.231	0.34105	13.243	0.34865	0.02319	2.63%	0.33321	0.10277	0.34870	2.52%	0.78%	2.64%	3.3931	0.12120	2.71%
005.03	1		13.150														
005.05	27	24	13.525	0.21104	13.509	0.21887	0.03035	1.62%	0.20752	0.05426	0.21450	1.53%	0.40%	1.59%	3.9529	0.06673	2.70%
005.11	1		10.780														
005.99	12	12	13.455	0.39450	13.454	0.41045	0.08378	3.05%	0.39271	0.05307	0.39628	2.92%	0.39%	2.95%	7.4667	0.06500	2.70%
006.00	3	3	3.8817	2.2934	3.8817	2.2934	0.93629	59.08%	2.2912	0.14474	2.2957	59.02%	3.73%	59.14%	15.861	0.17667	3.26%
006.01	2	0															
006.03	1		4.2300														
006.99	5	5	2.9380	1.4571	2.9380	1.4571	0.46078	49.60%	1.4513	0.18363	1.4629	49.40%	6.25%	49.79%	7.9665	0.21200	3.40%
008.02	13	11	31.002	2.9959	31.275	3.4113	0.69633	10.91%	2.9940	0.14998	2.9978	9.66%	0.48%	9.67%	19.987	0.23250	2.38%
008.05	1		33.400														
008.08	30	26	32.418	1.9827	32.397	2.0878	0.27899	6.44%	1.9682	0.33805	1.9970	6.07%	1.04%	6.16%	5.9074	0.42071	2.37%
008.99	2	0															
009.04	2	0															
009.07	9	8	42.324	1.4802	42.258	1.2179	0.30448	2.88%	1.4771	0.13562	1.4834	3.49%	0.32%	3.50%	10.937	0.12875	2.28%
009.09	27	23	40.241	2.0159	40.466	2.3825	0.33693	5.89%	2.0008	0.34847	2.0309	4.97%	0.87%	5.05%	5.8282	0.41280	2.29%
009.99	2	0															
010.03	5	5	8.1988	1.1063	8.1988	1.1063	0.34983	13.49%	1.1039	0.10309	1.1087	13.46%	1.26%	13.52%	10.754	0.11490	2.91%
010.11	1		9.6750														
010.99	9	9	7.9246	0.26615	7.9369	0.27916	0.06580	3.52%	0.25720	0.09678	0.27481	3.25%	1.22%	3.47%	2.8396	0.10986	2.93%
011.01	153	79	8.5307	0.30592	8.5449	0.26832	0.02083	3.14%	0.30105	0.07696	0.31073	3.53%	0.90%	3.64%	4.0377	0.08675	2.90%
011.02	5	4	8.6275	0.27180	8.6275	0.27180	0.09610	3.15%	0.24947	0.15256	0.29243	2.89%	1.77%	3.39%	1.9168	0.20500	2.89%
011.99	5	4	8.3550	0.29192	8.5350	0.47530	0.15030	5.57%	0.29113	0.03041	0.29271	3.48%	0.36%	3.50%	9.6242	0.08200	2.90%
012.00	9	8	8.1188	0.42375	8.1929	0.51509	0.12141	6.29%	0.41738	0.10350	0.43002	5.14%	1.27%	5.30%	4.1548	0.13778	2.91%
012.01	4	4	7.9700	1.7974	7.9700	1.7974	0.63547	22.55%	1.7859	0.28723	1.8088	22.41%	3.60%	22.70%	6.2975	0.35000	2.93%
012.03	3	3	7.5117	0.62838	7.5117	0.62838	0.25653	8.37%	0.62803	0.02972	0.62873	8.36%	0.40%	8.37%	21.154	0.03000	2.95%
012.04	6	5	6.9690	0.68743	7.2594	1.0662	0.30778	14.69%	0.68398	0.09721	0.69085	9.81%	1.39%	9.91%	7.1067	0.10500	2.97%

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012.11	2	0															
013.00	19	16	3.1416	0.51121	3.1416	0.67051	0.11175	21.34%	0.49874	0.15872	0.52339	15.88%	5.05%	16.66%	3.2976	0.14944	3.37%
013.02	98	34	3.6199	0.33069	3.6399	0.31897	0.03868	8.76%	0.31421	0.14578	0.34638	8.68%	4.03%	9.57%	2.3760	0.16088	3.29%
013.08	1		2.1150														
013.10	11	9	3.1194	0.52213	3.2335	0.69204	0.15475	21.40%	0.52068	0.05489	0.52357	16.69%	1.76%	16.78%	9.5388	0.06630	3.35%
013.13	3	3	3.5383	0.83974	3.5383	0.83974	0.34282	23.73%	0.83870	0.05902	0.84077	23.70%	1.67%	23.76%	14.246	0.07667	3.31%
015.41	5	4	181.18	8.8273	186.19	13.571	4.2916	7.29%	8.8059	0.86761	8.8486	4.86%	0.48%	4.88%	10.199	2.6942	7.28%
015.42	1		185.00														
015.43	5	4	194.63	10.443	187.91	17.529	5.5430	9.33%	10.338	2.0917	10.548	5.31%	1.07%	5.42%	5.0427	4.9800	7.27%
015.52	1		206.30														
015.53	3	3	201.30	16.334	201.30	16.334	6.6685	8.11%	14.820	9.7141	17.720	7.36%	4.83%	8.80%	1.8241	10.030	7.20%
017.41	2	0															
017.42	3	3	8.9550	0.87449	8.9550	0.87449	0.35701	9.77%	0.83579	0.36380	0.91154	9.33%	4.06%	10.18%	2.5056	0.45667	11.50%
017.43	5	4	8.9400	2.4073	8.9480	2.0849	0.65929	23.30%	2.4065	0.09014	2.4082	26.92%	1.01%	26.94%	26.716	0.28400	11.50%
017.53	1		9.2500														
019.00	18	15	1.8267	0.05138	1.8148	0.05682	0.00975	3.13%	0.04994	0.01706	0.05278	2.73%	0.93%	2.89%	3.0932	0.02121	3.66%
019.03	2	0															
019.04	1		1.7950														
019.08	9	8	1.8471	0.05662	1.8327	0.07746	0.01826	4.23%	0.05289	0.02860	0.06013	2.86%	1.55%	3.26%	2.1022	0.03411	3.65%
019.31	32	29	1.7928	0.07724	1.7865	0.08388	0.01065	4.70%	0.07206	0.03932	0.08209	4.02%	2.19%	4.58%	2.0876	0.04521	3.67%
019.32	8	8	1.8936	0.11417	1.8841	0.10936	0.02734	5.80%	0.11207	0.03082	0.11624	5.92%	1.63%	6.14%	3.7710	0.03020	3.64%
019.33	2	0															
019.34	1		1.6555														
019.41	40	37	1.8313	0.09971	1.8317	0.08561	0.00969	4.67%	0.09762	0.02866	0.10174	5.33%	1.57%	5.56%	3.5495	0.03473	3.65%
019.42	15	14	1.9160	0.07775	1.9049	0.08063	0.01472	4.23%	0.07025	0.04714	0.08460	3.67%	2.46%	4.42%	1.7946	0.05835	3.63%
019.43	18	16	1.9356	0.06655	1.9323	0.06208	0.01065	3.21%	0.06135	0.03646	0.07137	3.17%	1.88%	3.69%	1.9576	0.04541	3.62%
019.44	3	3	1.7935	0.04753	1.7935	0.04753	0.01940	2.65%		0.06773			3.78%			0.08833	3.66%
019.52	1		1.7425														
019.53	5	5	1.8796	0.06685	1.8796	0.06685	0.02114	3.56%	0.04477	0.07020	0.08326	2.38%	3.73%	4.43%	1.1861	0.08280	3.64%
019.99	2	0															
021.31	4	4	3.7800	1.5547	3.7800	1.5547	0.54967	41.13%	1.5532	0.09721	1.5562	41.09%	2.57%	41.17%	16.009	0.10500	13.10%
021.34	1		1.5450														
021.41	5	4	2.4603	0.19041	2.1733	0.66273	0.20957	30.50%	0.16839	0.12570	0.21013	6.84%	5.11%	8.54%	1.6717	0.13610	14.23%
021.42	3	3	1.7683	0.23950	1.7683	0.23950	0.09777	13.54%	0.15039	0.26360	0.30348	8.50%	14.91%	17.16%	1.1513	0.27000	14.68%
021.43	6	5	2.8840	0.57212	2.8840	0.57212	0.18092	19.84%	0.57150	0.03768	0.57274	19.82%	1.31%	19.86%	15.199	0.04000	13.64%
021.51	1		1.0500														
021.52	2	0															
021.53	6	6	2.3184	0.76106	2.3184	0.86304	0.24914	37.23%	0.73942	0.25484	0.78210	31.89%	10.99%	33.73%	3.0690	0.26217	14.10%

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022.31	18	16	15.659	6.7643	15.668	6.7864	1.1639	43.31%	6.7482	0.65997	6.7804	43.09%	4.21%	43.30%	10.274	0.82941	10.57%
022.32	5	5	29.500	8.4453	29.500	8.4453	2.6707	28.63%	8.3121	2.1131	8.5765	28.18%	7.16%	29.07%	4.0587	2.6720	9.61%
022.33	1		8.0750														
022.41	29	26	14.376	4.4220	14.048	3.7390	0.49095	26.62%	4.3728	0.92953	4.4705	30.42%	6.47%	31.10%	4.8095	1.3629	10.75%
022.42	14	13	31.662	2.3655	32.175	2.1933	0.41450	6.82%	2.1804	1.2973	2.5371	6.89%	4.10%	8.01%	1.9557	1.4871	9.49%
022.43	16	13	30.414	2.4925	30.032	2.8183	0.51454	9.38%	2.4588	0.57757	2.5257	8.08%	1.90%	8.30%	4.3730	0.76867	9.59%
022.44	2	0															
022.52	1		26.280														
022.53	5	5	31.130	2.9154	31.130	2.9154	0.92193	9.37%	2.8395	0.93434	2.9893	9.12%	3.00%	9.60%	3.1994	1.1800	9.53%
025.31	17	16	312.21	27.642	309.10	33.655	5.7719	10.89%	27.074	7.8851	28.199	8.67%	2.53%	9.03%	3.5763	8.6994	6.75%
025.32	6	5	335.43	21.021	327.18	26.255	7.5793	8.02%	19.068	12.512	22.807	5.68%	3.73%	6.80%	1.8228	15.087	6.69%
025.33	1		257.80														
025.41	31	29	303.68	31.147	304.24	32.009	4.1324	10.52%	30.538	8.6683	31.744	10.06%	2.85%	10.45%	3.6621	8.7298	6.77%
025.42	12	11	266.21	48.321	262.96	49.415	10.535	18.79%	47.786	10.144	48.851	17.95%	3.81%	18.35%	4.8157	11.502	6.92%
025.43	15	15	277.45	65.390	287.10	54.233	9.9015	18.89%	64.302	16.797	66.460	23.18%	6.05%	23.95%	3.9566	17.641	6.82%
025.52	1		315.41														
025.53	4	4	320.18	47.985	320.18	47.985	16.965	14.99%	46.136	18.655	49.765	14.41%	5.83%	15.54%	2.6676	18.550	6.71%
026.41	1		286.92														
027.31	21	17	0.29951	0.01641	0.29543	0.01054	0.00171	3.57%	0.01622	0.00353	0.01660	5.41%	1.18%	5.54%	4.6995	0.00514	4.81%
027.32	7	6	0.30376	0.00586	0.30146	0.00917	0.00245	3.04%		0.00845			2.78%			0.00947	4.79%
027.33	1		0.31000														
027.41	31	28	0.30066	0.01191	0.30118	0.01363	0.00173	4.52%	0.01056	0.00779	0.01312	3.51%	2.59%	4.36%	1.6838	0.00917	4.79%
027.42	13	12	0.31181	0.01537	0.30911	0.01236	0.00252	4.00%	0.01462	0.00671	0.01608	4.69%	2.15%	5.16%	2.3977	0.00768	4.77%
027.43	15	15	0.30847	0.01892	0.30943	0.00875	0.00160	2.83%	0.01746	0.01031	0.02028	5.66%	3.34%	6.57%	1.9677	0.01013	4.77%
027.44	2	0															
027.52	1		0.29495														
027.53	4	4	0.30225	0.01333	0.30225	0.01333	0.00471	4.41%	0.01219	0.00762	0.01437	4.03%	2.52%	4.76%	1.8873	0.00700	4.79%
028.31	16	15	141.04	14.136	139.18	17.020	3.0088	12.23%	13.984	2.9213	14.286	9.91%	2.07%	10.13%	4.8902	3.1675	7.61%
028.32	6	6	189.76	23.559	193.27	18.508	5.3429	9.58%	23.246	5.4141	23.868	12.25%	2.85%	12.58%	4.4085	6.4983	7.24%
028.33	1		150.91														
028.41	30	27	140.89	15.058	142.51	15.475	1.9978	10.86%	14.916	2.9180	15.199	10.59%	2.07%	10.79%	5.2086	4.0806	7.58%
028.42	14	13	192.83	6.9593	193.00	7.5084	1.4725	3.89%	6.1845	4.5132	7.6561	3.21%	2.34%	3.97%	1.6964	4.6231	7.25%
028.43	15	13	189.92	7.2219	189.66	6.9270	1.2647	3.65%	5.6950	6.2806	8.4782	3.00%	3.31%	4.46%	1.3499	7.0773	7.26%
028.44	4	3	88.671	78.533	92.003	64.467	22.793	70.07%	78.515	2.3805	78.551	88.55%	2.68%	88.59%	32.998	7.0002	8.10%
028.52	1		193.71														
028.53	5	5	177.25	31.284	177.25	31.284	9.8929	17.65%	31.128	4.4183	31.440	17.56%	2.49%	17.74%	7.1158	5.2200	7.34%
031.00	1		0.64815														
031.01	54	49	0.57623	0.02844	0.57576	0.02822	0.00277	4.90%	0.02765	0.00942	0.02921	4.80%	1.64%	5.07%	3.1005	0.01083	4.35%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.02	2	0															
031.03	5	4	0.55983	0.01193	0.55586	0.01362	0.00431	2.45%	0.01177	0.00280	0.01210	2.10%	0.50%	2.16%	4.3226	0.00656	4.37%
031.06	2	0															
031.41	38	35	0.56956	0.02062	0.56921	0.01873	0.00218	3.29%	0.01819	0.01373	0.02279	3.19%	2.41%	4.00%	1.6602	0.01602	4.35%
031.42	15	14	0.56341	0.02650	0.56340	0.02816	0.00532	5.00%	0.02453	0.01418	0.02833	4.35%	2.52%	5.03%	1.9986	0.01525	4.36%
031.43	18	16	0.59009	0.02578	0.58459	0.02181	0.00374	3.73%	0.02542	0.00614	0.02615	4.31%	1.04%	4.43%	4.2575	0.00665	4.34%
031.44	3	3	0.56237	0.00679	0.56237	0.00679	0.00277	1.21%		0.02415			4.29%			0.03153	4.36%
031.50	1		0.53495														
031.53	4	4	0.55763	0.03138	0.55763	0.03138	0.01109	5.63%	0.03108	0.00609	0.03167	5.57%	1.09%	5.68%	5.1981	0.00825	4.37%
031.99	3	2	0.57000	0.00000	0.64000	0.12124	0.04950	18.94%		0.01000			1.75%			0.01333	4.28%
032.02	6	5	0.60960	0.05454	0.63025	0.07802	0.02252	12.38%	0.05090	0.02772	0.05796	8.35%	4.55%	9.51%	2.0905	0.02767	4.29%
032.31	24	22	0.72289	0.09960	0.71438	0.09195	0.01327	12.87%	0.09884	0.01734	0.10035	13.67%	2.40%	13.88%	5.7885	0.02018	4.21%
032.32	7	5	0.87634	0.07668	0.86318	0.08652	0.02312	10.02%	0.07642	0.00886	0.07694	8.72%	1.01%	8.78%	8.6838	0.01623	4.09%
032.41	34	32	0.72586	0.08234	0.72735	0.07168	0.00882	9.86%	0.08120	0.01927	0.08346	11.19%	2.66%	11.50%	4.3304	0.02302	4.20%
032.42	15	13	0.88405	0.04109	0.88335	0.03729	0.00705	4.22%	0.04002	0.01320	0.04214	4.53%	1.49%	4.77%	3.1931	0.01896	4.08%
032.43	17	16	0.88453	0.05175	0.87860	0.06322	0.01084	7.20%	0.04945	0.02159	0.05396	5.59%	2.44%	6.10%	2.4994	0.02182	4.08%
032.44	2	0															
032.52	1		0.83790														
032.53	4	3	0.87700	0.02739	0.87025	0.02612	0.00924	3.00%	0.02625	0.01106	0.02849	2.99%	1.26%	3.25%	2.5754	0.03450	4.08%
032.99	2	0															
033.00	27	26	0.86968	0.09121	0.88284	0.06763	0.00920	7.66%	0.09090	0.01072	0.09153	10.45%	1.23%	10.52%	8.5403	0.01170	4.08%
033.01	37	33	0.98267	0.03361	0.97904	0.02221	0.00262	2.27%	0.03307	0.00846	0.03414	3.37%	0.86%	3.47%	4.0352	0.00975	4.01%
033.03	7	5	0.86400	0.14788	0.82535	0.10473	0.03023	12.69%	0.14784	0.00447	0.14791	17.11%	0.52%	17.12%	33.074	0.01333	4.12%
033.05	7	6	0.86626	0.17831	0.93244	0.16873	0.04509	18.10%	0.17793	0.01662	0.17870	20.54%	1.92%	20.63%	10.751	0.01787	4.04%
033.99	12	11	0.88348	0.16444	0.90582	0.13728	0.02927	15.16%	0.16388	0.01920	0.16500	18.55%	2.17%	18.68%	8.5914	0.02228	4.06%
034.01	2	0															
034.04	6	6	0.54800	0.02734	0.55032	0.02694	0.00778	4.90%	0.02167	0.02358	0.03203	3.95%	4.30%	5.84%	1.3581	0.02367	17.50%
034.34	1		0.49000														
034.42	2	0															
034.43	3	2	0.23000	0.32527	0.35667	0.31786	0.12976	89.12%	0.32467	0.02800	0.32587	141.16%	12.17%	141.68%	11.638	0.18533	18.68%
034.52	3	2	0.63350	0.00212	0.66650	0.05718	0.02334	8.58%		0.02581			4.07%			0.18967	17.00%
034.53	7	7	0.62400	0.11795	0.64198	0.09966	0.02664	15.52%	0.10860	0.06511	0.12662	17.40%	10.43%	20.29%	1.9447	0.07200	17.10%
034.99	1		0.44500														
035.01	3	3	0.34700	0.02735	0.34700	0.02735	0.01116	7.88%	0.02721	0.00387	0.02748	7.84%	1.12%	7.92%	7.0958	0.00400	4.69%
035.05	7	6	0.35493	0.06560	0.38617	0.01491	0.00430	3.86%	0.06511	0.01137	0.06609	18.34%	3.20%	18.62%	5.8149	0.01302	4.62%
035.31	22	19	0.33035	0.03602	0.33338	0.03694	0.00570	11.08%	0.03568	0.00694	0.03635	10.80%	2.10%	11.00%	5.2347	0.00859	4.72%
035.32	5	4	0.35989	0.01477	0.38491	0.05740	0.01815	14.91%	0.01241	0.01133	0.01681	3.45%	3.15%	4.67%	1.4828	0.01426	4.62%
035.41	33	31	0.33412	0.04897	0.33578	0.04230	0.00529	12.60%	0.04824	0.01191	0.04969	14.44%	3.56%	14.87%	4.1721	0.01337	4.71%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
035.42	12	11	0.38744	0.02786	0.38957	0.02213	0.00452	5.68%	0.02674	0.01106	0.02894	6.90%	2.85%	7.47%	2.6169	0.01051	4.61%
035.43	12	12	0.38146	0.02621	0.38049	0.02780	0.00567	7.31%	0.02540	0.00915	0.02700	6.66%	2.40%	7.08%	2.9491	0.01025	4.63%
035.52	1		0.36485														
035.53	3	3	0.37133	0.01474	0.37133	0.01474	0.00602	3.97%	0.01264	0.01074	0.01658	3.40%	2.89%	4.47%	1.5441	0.01400	4.64%
036.04	3	3	0.23333	0.01893	0.23333	0.01893	0.00773	8.11%	0.01848	0.00577	0.01936	7.92%	2.47%	8.30%	3.3541	0.00667	4.98%
036.42	13	12	0.23442	0.01376	0.23442	0.01561	0.00319	6.66%	0.01333	0.00486	0.01419	5.69%	2.07%	6.05%	2.9172	0.00532	4.98%
036.43	11	11	0.23409	0.02411	0.23355	0.02622	0.00559	11.23%	0.02350	0.00766	0.02472	10.04%	3.27%	10.56%	3.2251	0.00745	4.98%
036.53	1		0.21000														
037.31	20	19	88.400	20.115	87.479	22.323	3.5296	25.52%	19.895	4.1935	20.332	22.51%	4.74%	23.00%	4.8485	4.0775	8.16%
037.32	6	6	122.02	35.794	122.64	3.6986	1.0677	3.02%	35.625	4.9110	35.962	29.20%	4.02%	29.47%	7.3228	5.9533	7.76%
037.33	1		95.205														
037.41	30	27	100.14	17.553	102.81	16.692	2.1918	16.24%	17.157	5.2476	17.941	17.13%	5.24%	17.92%	3.4189	8.1542	7.97%
037.42	13	11	122.04	3.6785	122.58	3.6538	0.74582	2.98%	2.6886	3.5505	4.4536	2.20%	2.91%	3.65%	1.2544	3.6458	7.76%
037.43	16	13	115.06	5.4436	116.72	5.8572	1.0694	5.02%	4.8551	3.4816	5.9744	4.22%	3.03%	5.19%	1.7160	4.8933	7.81%
037.44	3	3	97.052	8.6348	97.052	8.6348	3.5252	8.90%	8.5333	1.8675	8.7352	8.79%	1.92%	9.00%	4.6775	2.2233	8.04%
037.52	1		113.44														
037.53	5	5	122.33	5.4504	122.33	5.4504	1.7236	4.46%	4.1372	5.0181	6.5037	3.38%	4.10%	5.32%	1.2960	5.9800	7.76%
038.41	1		2.6000														
038.42	3	3	2.3395	1.4724	2.3395	1.4724	0.60109	62.94%	1.4717	0.06252	1.4730	62.91%	2.67%	62.96%	23.563	0.06233	14.08%
038.43	8	8	2.1369	1.1963	2.4961	0.65766	0.16441	26.35%	1.1958	0.04867	1.1968	55.96%	2.28%	56.01%	24.591	0.04875	13.94%
038.51	1		0.70000														
038.52	2	0															
038.53	6	6	2.1851	1.1613	2.1851	1.3170	0.38017	60.27%	1.0964	0.54157	1.2229	50.18%	24.79%	55.96%	2.2580	0.57550	14.22%
040.43	1		10.965														
041.53	1		0.60000														
057.01	1		0.00000														
065.00	3	3	24.183	2.8100	24.183	2.8100	1.1472	11.62%	2.7553	0.77996	2.8636	11.39%	3.23%	11.84%	3.6714	0.96667	24.87%
065.01	2	0															
065.03	8	6	20.178	1.1876	20.602	1.7676	0.47241	8.58%	1.1624	0.34395	1.2122	5.76%	1.70%	6.01%	3.5244	0.36571	25.48%
065.04	5	5	20.402	1.2768	20.402	1.2768	0.40375	6.26%	1.2624	0.26965	1.2909	6.19%	1.32%	6.33%	4.7874	0.30780	25.51%
065.99	2	0															
079.03	1		0.00000														
091.01	1		0.00000														
101.01	1		297.00														
104.03	1		1.0000														
105.00	1		2.4100														
106.00	1		2.7500														
106.01	1		4.3739														

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106.02	17	15	2.4863	0.49227	2.4104	0.56292	0.09951	23.35%	0.46294	0.23670	0.51995	18.62%	9.52%	20.91%	2.1966	0.25739	
108.01	1		864.50														
108.02	4	4	1.6630	1.9586	1.6630	1.9586	0.69246	117.77%	1.9578	0.07768	1.9593	117.73%	4.67%	117.82%	25.223	0.08150	
109.02	15	14	17.708	12.252	18.509	10.797	1.9712	58.33%	12.234	0.94450	12.270	69.09%	5.33%	69.29%	12.991	1.1995	10.31%
115.00	1		8.0100														
115.99	1		0.41900														
120.00	15	13	0.67612	0.02165	0.67921	0.02561	0.00484	3.77%	0.02071	0.00895	0.02256	3.06%	1.32%	3.34%	2.5204	0.01429	4.24%
120.01	1		0.66500														
120.02	3	3	0.68025	0.04058	0.68025	0.04058	0.01657	5.97%	0.03701	0.02356	0.04387	5.44%	3.46%	6.45%	1.8619	0.02903	4.24%
120.05	3	3	0.71982	0.03303	0.71982	0.03303	0.01348	4.59%	0.02727	0.02634	0.03792	3.79%	3.66%	5.27%	1.4395	0.03623	4.20%
121.00	15	14	1.5036	0.04262	1.5092	0.05270	0.00962	3.49%	0.03996	0.02094	0.04512	2.66%	1.39%	3.00%	2.1545	0.02647	3.76%
121.01	2	0															
121.02	3	3	1.5476	0.03578	1.5476	0.03578	0.01461	2.31%	0.01042	0.04841	0.04952	0.67%	3.13%	3.20%	1.0229	0.06647	3.75%
121.05	3	3	1.5000	0.09586	1.5000	0.09586	0.03913	6.39%	0.09408	0.02600	0.09761	6.27%	1.73%	6.51%	3.7541	0.02667	3.76%
122.00	15	13	1.4366	0.04182	1.4427	0.04011	0.00732	2.78%	0.04010	0.01680	0.04347	2.79%	1.17%	3.03%	2.5881	0.02220	3.79%
122.01	2	0															
122.02	3	2	1.4639	0.00163	1.4772	0.02321	0.00948	1.57%		0.05504			3.76%			0.05873	3.77%
122.05	3	3	1.4180	0.23168	1.4180	0.23168	0.09458	16.34%	0.22989	0.04067	0.23346	16.21%	2.87%	16.46%	5.7411	0.05067	3.79%
123.99	1		3.0750														
124.00	11	11	0.27705	0.03035	0.27859	0.01686	0.00359	6.05%	0.02964	0.00923	0.03104	10.70%	3.33%	11.21%	3.3626	0.00918	4.85%
124.01	2	0															
124.02	3	2	0.28210	0.03125	0.29807	0.03540	0.01445	11.88%	0.03125	0.00050	0.03126	11.08%	0.18%	11.08%	62.512	0.02033	4.80%
124.05	2	0															
125.00	14	13	3.1286	0.12227	3.1246	0.11145	0.02106	3.57%	0.11993	0.03365	0.12456	3.83%	1.08%	3.98%	3.7013	0.04093	3.37%
125.01	2	0															
125.02	3	2	3.0595	0.00067	3.0945	0.06061	0.02474	1.96%		0.10060			3.29%			0.10430	3.37%
125.05	3	3	3.1108	0.30822	3.1108	0.30822	0.12583	9.91%	0.28304	0.17254	0.33149	9.10%	5.55%	10.66%	1.9212	0.18300	3.37%
126.00	15	13	0.71435	0.02196	0.71736	0.02338	0.00442	3.26%	0.02079	0.01001	0.02308	2.91%	1.40%	3.23%	2.3045	0.01021	4.20%
126.01	2	0															
126.02	3	3	0.74390	0.02965	0.74390	0.02965	0.01210	3.99%	0.02604	0.02005	0.03287	3.50%	2.70%	4.42%	1.6389	0.02447	4.18%
126.05	3	3	0.75917	0.01806	0.75917	0.01806	0.00737	2.38%	0.01265	0.01823	0.02218	1.67%	2.40%	2.92%	1.2172	0.02167	4.17%
127.00	14	13	0.43873	0.01439	0.44038	0.01564	0.00296	3.55%	0.01328	0.00783	0.01542	3.03%	1.78%	3.51%	1.9699	0.01036	4.53%
127.01	1		0.41300														
127.02	2	0															
127.05	3	3	0.44800	0.01711	0.44800	0.01711	0.00699	3.82%	0.01525	0.01097	0.01879	3.40%	2.45%	4.19%	1.7125	0.01333	4.51%
128.00	15	14	0.52039	0.03905	0.52075	0.02930	0.00554	5.63%	0.03868	0.00760	0.03942	7.43%	1.46%	7.57%	5.1868	0.00879	4.41%
128.01	2	0															
128.02	3	3	0.53860	0.02946	0.53860	0.02946	0.01203	5.47%	0.02660	0.01791	0.03207	4.94%	3.33%	5.95%	1.7903	0.02500	4.39%

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128.05	3	3	0.51917	0.05611	0.51917	0.05611	0.02291	10.81%	0.05286	0.02664	0.05919	10.18%	5.13%	11.40%	2.2221	0.03167	4.41%
129.00	15	13	0.97181	0.02145	0.97490	0.02680	0.00507	2.75%	0.02010	0.01061	0.02272	2.07%	1.09%	2.34%	2.1417	0.01436	4.02%
129.01	2	0															
129.02	3	3	0.99768	0.01539	0.99768	0.01539	0.00628	1.54%		0.02627			2.63%			0.03217	4.00%
129.05	3	3	1.0725	0.11602	1.0725	0.11602	0.04737	10.82%		0.20467			19.08%			0.19967	3.96%
130.00	16	14	0.72229	0.05409	0.72909	0.06623	0.01209	9.08%	0.05374	0.00861	0.05443	7.44%	1.19%	7.54%	6.3179	0.01120	4.19%
130.01	2	0															
130.02	3	3	0.74508	0.05581	0.74508	0.05581	0.02279	7.49%	0.05502	0.01329	0.05660	7.38%	1.78%	7.60%	4.2577	0.01483	4.18%
130.05	4	4	0.87484	0.25907	0.87484	0.25907	0.09159	29.61%	0.25805	0.03239	0.26008	29.50%	3.70%	29.73%	8.0292	0.04068	4.08%
130.99	1		1.2524														
131.00	11	10	0.23675	0.01882	0.22974	0.00923	0.00197	4.02%	0.01813	0.00710	0.01947	7.66%	3.00%	8.23%	2.7443	0.00918	4.99%
131.01	2	0															
131.02	3	2	0.24765	0.00332	0.22510	0.03913	0.01597	17.38%	0.00327	0.00080	0.00337	1.32%	0.32%	1.36%	4.2140	0.00720	5.01%
131.05	3	3	0.19000	0.07150	0.19000	0.07150	0.02919	37.63%	0.07111	0.01054	0.07189	37.43%	5.55%	37.84%	6.8232	0.01400	5.14%
132.00	15	13	0.81081	0.01992	0.81086	0.01747	0.00330	2.15%	0.01891	0.00886	0.02088	2.33%	1.09%	2.58%	2.3583	0.01279	4.13%
132.01	2	0															
132.02	3	3	0.82593	0.01396	0.82593	0.01396	0.00570	1.69%		0.02047			2.48%			0.02460	4.12%
132.05	3	3	0.82417	0.00513	0.82417	0.00513	0.00209	0.62%		0.04265			5.18%			0.04567	4.12%
133.00	15	13	0.74835	0.04748	0.75519	0.05933	0.01121	7.86%	0.04670	0.01209	0.04824	6.24%	1.62%	6.45%	3.9891	0.01821	4.17%
133.05	3	3	0.79550	0.01735	0.79550	0.01735	0.00708	2.18%	0.00511	0.02345	0.02400	0.64%	2.95%	3.02%	1.0234	0.02900	4.14%
133.99	1		0.76500														
134.00	15	13	0.71900	0.04012	0.71271	0.03171	0.00599	4.45%	0.03978	0.00746	0.04047	5.53%	1.04%	5.63%	5.4265	0.00971	4.21%
134.01	2	0															
134.02	3	3	0.70648	0.02285	0.70648	0.02285	0.00933	3.23%	0.01607	0.02297	0.02803	2.27%	3.25%	3.97%	1.2203	0.02843	4.21%
134.05	3	3	0.76617	0.06414	0.76617	0.06414	0.02618	8.37%	0.06318	0.01563	0.06508	8.25%	2.04%	8.49%	4.1650	0.02033	4.16%
135.00	15	14	0.53029	0.02388	0.53130	0.02470	0.00467	4.65%	0.02330	0.00737	0.02444	4.39%	1.39%	4.61%	3.3168	0.00871	4.40%
135.01	2	0															
135.02	3	3	0.53565	0.00949	0.53565	0.00949	0.00387	1.77%		0.01471			2.75%			0.01837	4.39%
135.05	3	3	0.56050	0.01776	0.56050	0.01776	0.00725	3.17%	0.01180	0.01877	0.02217	2.10%	3.35%	3.95%	1.1812	0.02633	4.36%
136.00	2	0															
136.01	4	4	0.21325	0.02972	0.21325	0.02972	0.01051	13.94%	0.02955	0.00456	0.02990	13.86%	2.14%	14.02%	6.5631	0.00500	5.05%
136.02	1		0.17500														
136.03	1		0.19700														
136.99	2	0															
137.00	12	11	0.39568	0.02585	0.39624	0.02814	0.00600	7.10%	0.02534	0.00723	0.02635	6.40%	1.83%	6.66%	3.6432	0.00755	4.60%
137.01	1		0.47100														
137.02	3	2	0.38005	0.00007	0.40487	0.04298	0.01755	10.62%		0.00170			0.45%			0.00880	4.58%
137.05	3	3	0.35533	0.08340	0.35533	0.08340	0.03405	23.47%	0.08274	0.01480	0.08406	23.29%	4.16%	23.66%	5.6800	0.02067	4.67%



Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
138.00	15	14	0.73068	0.03858	0.73293	0.03544	0.00670	4.84%	0.03797	0.00967	0.03919	5.20%	1.32%	5.36%	4.0518	0.01007	4.19%
138.01	2	0															
138.02	3	3	0.74822	0.10747	0.74822	0.10747	0.04387	14.36%	0.10619	0.02332	0.10872	14.19%	3.12%	14.53%	4.6628	0.03217	4.18%
138.05	3	3	0.74883	0.07538	0.74883	0.07538	0.03077	10.07%	0.07132	0.03451	0.07923	9.52%	4.61%	10.58%	2.2961	0.03767	4.18%
139.00	1		0.01000														
139.02	2	0															
160.99	4	4	0.29235	0.12467	0.29235	0.12467	0.04408	42.64%	0.11958	0.04990	0.12957	40.90%	17.07%	44.32%	2.5966	0.04560	4.81%
161.99	1		0.00000														
162.99	3	2	0.15500	0.06364	0.19342	0.08033	0.03279	41.53%	0.06354	0.00500	0.06374	40.99%	3.23%	41.12%	12.748	0.04583	5.12%
163.99	2	0															
164.99	1		0.00000														
165.99	6	6	1.2623	0.24645	1.2189	0.18450	0.05326	15.14%	0.24138	0.07034	0.25142	19.12%	5.57%	19.92%	3.5741	0.07128	3.88%
166.99	1		1.6980														
167.99	1		0.24650														
400.01	4	3	0.47783	0.01427	0.47338	0.01467	0.00519	3.10%	0.01420	0.00204	0.01434	2.97%	0.43%	3.00%	7.0257	0.00675	
516.00	2	0															
516.01	1		0.22500														
516.52	1		0.22400														
516.53	8	8	0.21863	0.05748	0.22031	0.04626	0.01156	21.00%	0.05601	0.01829	0.05892	25.62%	8.37%	26.95%	3.2211	0.02375	20.09%
518.33	1		0.06000														
518.34	1		0.07000														
518.41	4	4	0.05363	0.02816	0.05363	0.02816	0.00996	52.51%	0.02800	0.00420	0.02831	52.22%	7.83%	52.80%	6.7444	0.00475	24.85%
518.43	1		0.05500														
518.52	2	0															
518.53	8	7	0.10136	0.00775	0.10235	0.00704	0.00188	6.88%	0.00687	0.00508	0.00854	6.78%	5.01%	8.43%	1.6820	0.00471	22.54%
520.41	3	3	17.806	7.3933	17.806	7.3933	3.0183	41.52%	7.3844	0.51084	7.4021	41.47%	2.87%	41.57%	14.490	0.57583	10.37%
520.43	4	2	32.748	1.6935	26.228	15.140	5.3527	57.72%	1.6674	0.41931	1.7193	5.09%	1.28%	5.25%	4.1002	2.4450	9.78%
520.52	1		30.225														
520.53	3	2	23.650	13.152	18.743	12.598	5.1432	67.21%	13.152	0.05000	13.152	55.61%	0.21%	55.61%	263.04	1.4800	10.29%
520.99	1		34.090														
526.31	2	0															
526.34	1		0.14500														
526.41	2	0															
526.43	1		0.07500														
526.52	2	0															
526.53	8	7	0.19900	0.01998	0.20293	0.02448	0.00612	12.06%	0.01248	0.02207	0.02535	6.27%	11.09%	12.74%	1.1488	0.03625	20.34%
529.99	4	4	4.0163	2.6271	4.0163	2.6271	0.92884	65.41%	2.5327	0.98735	2.7183	63.06%	24.58%	67.68%	2.7532	1.1175	36.70%
539.31	1		10.795														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
539.41	1		15.301														
539.43	3	3	13.397	11.838	13.397	11.838	4.8330	88.37%	11.729	2.2739	11.947	87.55%	16.97%	89.18%	5.2540	2.1267	10.82%
539.52	1		17.915														
539.53	4	3	6.4550	2.5636	9.4788	6.3995	2.2626	67.51%	2.5592	0.21075	2.5679	39.65%	3.26%	39.78%	12.184	1.8025	11.40%
600.01	2	0															
600.03	1		2.0000														
600.08	1		5.7500														
600.12	1		3.5650														
600.13	1		4.8300														
600.14	1		1.0000														
600.20	1		0.00000														
601.21	1		2.9500														
601.23	2	0															
601.99	1		1.5550														
602.21	1		0.30000														
602.23	2	0															
602.99	1		0.24000														
603.21	1		0.10000														
603.23	1		0.00000														
603.99	1		0.00000														
604.23	1		0.00000														
604.99	1		0.00000														
610.07	1		80.500														
610.25	1		105.00														
610.98	1		100.00														
620.11	1		1,280.0														
621.99	1		939.00														
622.99	1		340.00														
630.05	2	0															
630.20	1		1.2060														
640.01	1		43.550														
640.03	1		5.0000														
640.05	2	0															
640.25	1		0.00000														
650.06	2	0															
650.07	2	0															
650.21	1		0.00000														