

# AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201324

Sheep & Goat Grower/Finisher, 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)	% 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
000.99	2	2	0.10000	0.13435													
001.00	8	6	8.9768	1.5533	9.5693	0.35339	0.10201	3.69%	0.36951	0.15187	0.39950	3.85%	1.58%	4.16%	2.6306	0.14467	2.85%
001.03	14	13	9.4166	0.12873	9.4219	0.13455	0.02639	1.43%	0.13434	0.00731	0.13454	1.43%	0.08%	1.43%	18.394	0.01095	2.85%
001.05	1		9.3300														
001.07	31	30	9.2293	0.78306	9.3161	0.22585	0.02916	2.42%	0.39161	0.06462	0.39690	4.19%	0.69%	4.25%	6.1425	0.07993	2.86%
001.08	3	3	9.3717	0.28967	9.3717	0.28967	0.11826	3.09%	0.26350	0.17015	0.31366	2.81%	1.82%	3.35%	1.8435	0.18333	2.86%
001.99	19	15	9.4196	0.52165	9.5291	0.27450	0.05012	2.88%	0.27229	0.05240	0.27729	2.86%	0.55%	2.91%	5.2922	0.05713	2.85%
002.00	2	2	16.200	2.7577													
002.01	12	12	14.758	0.15899	14.761	0.15424	0.03148	1.04%	0.15237	0.06422	0.16535	1.03%	0.44%	1.12%	2.5747	0.07675	2.67%
002.02	4	4	15.019	0.18929	15.019	0.18929	0.06692	1.26%	0.16893	0.12078	0.20766	1.12%	0.80%	1.38%	1.7194	0.13743	2.66%
002.03	1		14.510														
002.04	6	6	14.789	0.27690	14.867	0.17509	0.05054	1.18%	0.28849	0.09854	0.30486	1.95%	0.67%	2.07%	3.0938	0.21167	2.66%
002.05	39	38	14.775	0.26503	14.743	0.18561	0.02129	1.26%	0.16798	0.06660	0.18070	1.14%	0.45%	1.23%	2.7134	0.07773	2.67%
002.06	216	140	15.067	0.44314	15.045	0.29081	0.01738	1.93%	0.27160	0.12492	0.29895	1.81%	0.83%	1.99%	2.3932	0.13658	2.66%
002.07	1		14.740														
002.08	3	3	15.122	0.52845	15.122	0.52845	0.21574	3.49%	0.58315	0.00935	0.58322	3.81%	0.06%	3.81%	62.377	0.05957	2.66%
002.10	2	2	15.009	0.55968													
002.11	4	4	14.456	0.07870	14.456	0.07870	0.02782	0.54%		0.12568			0.87%			0.13475	2.68%
002.99	4	4	14.884	0.83088	14.884	0.83088	0.29376	5.58%	0.49988	0.07269	0.50514	3.28%	0.48%	3.31%	6.9496	0.71750	2.66%
003.00	16	16	3.6532	0.45295	3.6485	0.48268	0.08533	13.23%	0.44156	0.17202	0.47389	12.01%	4.68%	12.89%	2.7548	0.18209	3.29%
003.01	2	2	3.3093	0.29097													
003.06	19	19	3.1919	0.28283	3.2313	0.19295	0.03130	5.97%	0.16325	0.09691	0.18985	5.03%	2.99%	5.85%	1.9590	0.10000	3.35%
003.07	1		3.7200														
003.09	26	24	3.3003	0.19618	3.3217	0.15994	0.02309	4.81%	0.15586	0.06474	0.16877	4.69%	1.95%	5.08%	2.6069	0.06525	3.34%
003.10	33	29	3.1500	0.28919	3.1307	0.17230	0.02262	5.50%	0.22713	0.05076	0.23273	7.08%	1.58%	7.25%	4.5847	0.06176	3.37%
003.11	3	3	3.4233	0.00764	3.4233	0.00764	0.00312	0.22%		0.02380			0.70%			0.03333	3.32%
003.12	11	10	3.2779	0.20486	3.2163	0.13071	0.02923	4.06%	0.20380	0.02950	0.20592	6.22%	0.90%	6.28%	6.9799	0.03316	3.35%

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003.13	4	4	3.0234	0.27922	3.0234	0.27922	0.09872	9.24%		0.05254			1.66%			0.22775	3.39%
003.14	32	31	3.3808	0.29318	3.3271	0.19011	0.02414	5.71%	0.20383	0.08374	0.22036	6.11%	2.51%	6.61%	2.6314	0.08946	3.34%
003.99	11	8	3.5294	0.74504	3.3421	0.31171	0.07793	9.33%	0.21116	0.07020	0.22253	6.45%	2.14%	6.79%	3.1697	0.10125	3.34%
004.00	22	22	15.125	0.69016	15.056	0.62838	0.09473	4.17%	0.67574	0.19468	0.70322	4.46%	1.28%	4.64%	3.6123	0.22155	2.66%
004.01	1		16.150														
004.03	3	3	12.502	7.4950	12.502	7.4950	3.0598	59.95%	7.4778	0.71941	7.5123	59.81%	5.75%	60.09%	10.442	0.73000	2.73%
004.06	40	39	15.467	0.92965	15.386	0.68872	0.07798	4.48%	0.69194	0.13970	0.70590	4.51%	0.91%	4.60%	5.0531	0.15214	2.65%
004.07	55	53	15.280	0.86337	15.277	0.65673	0.06379	4.30%	0.81628	0.19978	0.84037	5.36%	1.31%	5.52%	4.2064	0.23426	2.65%
004.11	3	3	13.585	1.2579	13.585	1.2579	0.51355	9.26%	1.2574	0.05200	1.2585	9.26%	0.38%	9.26%	24.201	0.06933	2.70%
004.99	2	2	15.208	1.1420													
005.00	170	102	8.4504	0.32440	8.4750	0.28161	0.01972	3.32%	0.28540	0.08031	0.29648	3.37%	0.95%	3.50%	3.6916	0.09219	2.90%
005.02	1		8.8150														
005.03	1		8.4000														
005.05	30	29	8.6917	0.16475	8.6886	0.16121	0.02117	1.86%	0.14417	0.04742	0.15177	1.66%	0.55%	1.75%	3.2007	0.04866	2.89%
005.11	3	3	9.4562	1.3686	9.4562	1.3686	0.55874	14.47%	1.3663	0.11292	1.3710	14.45%	1.19%	14.50%	12.141	0.12633	2.85%
005.99	13	12	8.5948	0.49217	8.6535	0.39964	0.08158	4.62%	0.29580	0.11347	0.31682	3.41%	1.31%	3.65%	2.7920	0.13208	2.89%
006.00	3	3	4.2083	3.6445	4.2083	3.6445	1.4879	86.60%		0.08201			1.30%			0.07667	3.22%
006.01	2	2	6.1075	0.29345													
006.03	1		6.3150														
006.99	5	5	5.1100	1.6119	5.1100	1.6119	0.50974	31.54%	1.6102	0.10488	1.6136	31.51%	2.05%	31.58%	15.385	0.09200	3.13%
008.02	13	12	19.911	1.1193	19.867	0.80475	0.16427	4.05%	1.1125	0.17520	1.1262	5.59%	0.88%	5.66%	6.4279	0.19417	2.55%
008.05	1		19.400														
008.08	32	31	19.195	1.0580	19.248	0.94023	0.11941	4.88%	0.80820	0.30965	0.86549	4.18%	1.60%	4.48%	2.7950	0.31355	2.56%
008.99	3	3	19.192	3.3206	19.192	3.3206	1.3556	17.30%	3.3114	0.34912	3.3297	17.25%	1.82%	17.35%	9.5375	0.38333	2.56%
009.04	2	2	40.040	0.55154													
009.07	11	10	39.340	1.5215	39.559	1.2552	0.28068	3.17%	1.5004	0.35730	1.5424	3.81%	0.91%	3.92%	4.3167	0.40900	2.30%
009.09	26	25	37.174	1.2668	37.085	1.2222	0.17284	3.30%	1.0332	0.49080	1.1439	2.79%	1.32%	3.08%	2.3306	0.57840	2.32%
009.99	3	3	35.530	2.2015	35.530	2.2015	0.89876	6.20%	2.1644	0.56883	2.2379	6.09%	1.60%	6.30%	3.9343	0.67333	2.34%
010.03	5	5	8.0023	1.2952	8.0023	1.2952	0.40957	16.18%	1.2783	0.29438	1.3118	15.97%	3.68%	16.39%	4.4560	0.30620	2.92%
010.11	2	2	10.111	0.65620													
010.99	9	8	9.2724	0.49615	9.2098	0.33201	0.08300	3.60%	0.49502	0.04741	0.49728	5.34%	0.51%	5.36%	10.490	0.05325	2.86%
011.01	148	74	10.410	0.38777	10.441	0.33735	0.02773	3.23%	0.33788	0.08707	0.34892	3.24%	0.84%	3.35%	4.0072	0.09909	2.81%
011.02	4	3	10.117	0.39713	10.117	0.39713	0.16213	3.93%	0.38930	0.11091	0.40479	3.85%	1.10%	4.00%	3.6499	0.15333	2.82%
011.99	5	5	10.396	0.33542	10.396	0.33542	0.10607	3.23%	0.38047	0.01541	0.38078	3.65%	0.15%	3.65%	24.708	0.04800	2.81%
012.00	10	9	12.592	0.58977	12.587	0.32892	0.07753	2.61%	0.62387	0.11341	0.63410	4.96%	0.90%	5.04%	5.5910	0.17111	2.73%
012.01	4	4	11.612	1.5790	11.612	1.5790	0.55825	13.60%	1.5956	0.00857	1.5956	14.29%	0.08%	14.29%	186.12	0.08025	2.77%
012.03	3	3	11.138	0.44789	11.138	0.44789	0.18285	4.02%	0.56214	0.00500	0.56216	4.99%	0.04%	4.99%	112.43	0.07000	2.78%
012.04	6	6	11.288	1.8723	11.189	1.9328	0.55794	17.27%	1.8598	0.30482	1.8847	16.48%	2.70%	16.70%	6.1828	0.33333	2.78%

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012.11	3	3	14.922	1.8349	14.922	1.8349	0.74910	12.30%	1.8314	0.16024	1.8384	12.27%	1.07%	12.32%	11.473	0.18700	2.66%
013.00	19	17	4.1991	0.51410	4.1403	0.47248	0.08103	11.41%	0.50066	0.16511	0.52719	11.92%	3.93%	12.55%	3.1929	0.18176	3.23%
013.02	95	30	4.5437	0.43904	4.5468	0.45277	0.05845	9.96%	0.42543	0.15341	0.45224	9.36%	3.38%	9.95%	2.9480	0.16267	3.18%
013.08	1		2.4550														
013.10	11	10	4.1700	0.40063	4.1700	0.45431	0.10159	10.89%	0.39965	0.03958	0.40160	9.58%	0.95%	9.63%	10.147	0.04070	3.23%
013.12	1		3.6270														
013.13	3	3	5.1533	0.88733	5.1533	0.88733	0.36225	17.22%	0.87606	0.19942	0.89847	17.00%	3.87%	17.43%	4.5055	0.21333	3.13%
015.41	3	3	42.758	8.0688	42.758	8.0688	3.2941	18.87%	8.0221	1.2263	8.1153	18.76%	2.87%	18.98%	6.6177	1.5567	9.09%
015.42	2	2	37.900	8.1317													
015.43	4	4	46.340	14.368	46.340	14.368	5.0800	31.01%	14.364	0.51829	14.373	31.00%	1.12%	31.02%	27.731	0.63500	8.98%
015.52	1		50.650														
015.53	1		39.515														
017.41	2	2	11.055	1.3647													
017.42	4	4	7.6063	5.1968	7.6063	5.1968	1.8373	68.32%	5.1856	0.48137	5.2079	68.18%	6.33%	68.47%	10.819	0.46750	11.79%
017.43	4	4	8.3425	3.6512	8.3425	3.6512	1.2909	43.77%	3.6487	0.19248	3.6538	43.74%	2.31%	43.80%	18.982	0.18500	11.62%
017.53	1		9.8000														
019.00	22	21	1.4351	0.07591	1.4419	0.05170	0.00798	3.59%	0.05445	0.01490	0.05645	3.76%	1.03%	3.90%	3.7886	0.01728	3.79%
019.02	1		0.76000														
019.03	1		1.5097														
019.08	7	7	1.4082	0.12388	1.4385	0.05196	0.01389	3.61%	0.05053	0.02474	0.05626	3.48%	1.70%	3.88%	2.2739	0.03330	3.79%
019.31	31	30	1.4297	0.07251	1.4350	0.06176	0.00797	4.30%	0.05738	0.02769	0.06372	3.99%	1.92%	4.43%	2.3007	0.03259	3.79%
019.32	8	8	1.4794	0.04084	1.4806	0.03949	0.00987	2.67%	0.03621	0.02671	0.04499	2.45%	1.81%	3.04%	1.6847	0.02794	3.77%
019.33	1		1.5950														
019.41	38	37	1.4721	0.07736	1.4701	0.07197	0.00837	4.90%	0.06770	0.03204	0.07490	4.61%	2.18%	5.10%	2.3379	0.03787	3.77%
019.42	16	16	1.4615	0.15617	1.4825	0.12108	0.02140	8.17%	0.10328	0.03505	0.10907	6.93%	2.35%	7.32%	3.1114	0.03529	3.77%
019.43	14	14	1.4719	0.10449	1.4754	0.07371	0.01393	5.00%	0.07735	0.03023	0.08305	5.17%	2.02%	5.55%	2.7473	0.04064	3.77%
019.44	4	4	1.4324	0.05942	1.4324	0.05942	0.02101	4.15%	0.05329	0.03718	0.06498	3.72%	2.60%	4.54%	1.7475	0.03525	3.79%
019.52	3	3	1.5455	0.22847	1.5455	0.22847	0.09327	14.78%	0.22603	0.04719	0.23090	14.62%	3.05%	14.94%	4.8930	0.05967	3.75%
019.53	3	3	1.4183	0.01528	1.4183	0.01528	0.00624	1.08%		0.03719			2.62%			0.05000	3.79%
019.99	4	4	1.0930	0.45437	1.0930	0.45437	0.16064	41.57%	0.45427	0.01358	0.45447	41.56%	1.24%	41.58%	33.459	0.01350	3.95%
021.31	4	4	2.6725	1.3707	2.6725	1.3707	0.48463	51.29%	1.4207	0.09390	1.4238	61.55%	4.07%	61.68%	15.163	0.35000	13.80%
021.41	5	5	0.85654	0.21749	0.85654	0.21749	0.06878	25.39%	0.20970	0.08157	0.22500	24.48%	9.52%	26.27%	2.7585	0.09012	16.37%
021.42	3	3	0.85133	0.23079	0.85133	0.23079	0.09422	27.11%	0.32242	0.00500	0.32246	36.97%	0.57%	36.98%	64.492	0.21000	16.39%
021.43	6	5	0.94130	0.13505	0.94130	0.13505	0.04271	14.35%	0.11284	0.03861	0.11927	11.50%	3.93%	12.15%	3.0891	0.09500	16.14%
021.51	1		0.35000														
021.52	1		0.95450														
021.53	2	2	0.77500	0.33234													
022.31	15	14	10.260	3.1160	10.890	1.2634	0.23876	11.60%	0.86292	0.37135	0.93943	7.92%	3.41%	8.63%	2.5297	0.51643	11.17%

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022.32	4	4	27.649	33.339	27.649	33.339	11.787	120.58%	3.0567	1.4679	3.3908	27.71%	13.31%	30.74%	2.3100	2.1975	9.71%
022.33	2	2	9.5530	2.4791													
022.41	23	23	10.944	1.4791	10.951	1.4177	0.20903	12.95%	1.4633	0.43674	1.5270	13.43%	4.01%	14.01%	3.4965	0.51756	11.16%
022.42	12	12	12.575	1.2483	12.623	1.3057	0.26653	10.34%	1.1176	0.78640	1.3665	8.89%	6.25%	10.87%	1.7377	0.90750	10.92%
022.43	12	12	11.430	1.4810	11.273	0.86254	0.17606	7.65%	1.4375	0.50382	1.5233	12.58%	4.41%	13.33%	3.0234	0.51083	11.11%
022.44	1		9.8650														
022.52	1		10.639														
022.53	3	3	10.667	0.32532	10.667	0.32532	0.13281	3.05%	0.32275	0.05774	0.32787	3.03%	0.54%	3.07%	5.6789	0.06667	11.20%
025.31	16	15	263.40	75.778	278.81	30.180	5.5101	10.82%	21.987	5.4217	22.646	7.71%	1.90%	7.94%	4.1769	7.9567	6.86%
025.32	6	6	307.24	98.218	278.90	7.5553	2.1810	2.71%	24.306	7.6736	25.488	9.06%	2.86%	9.50%	3.3216	8.0467	6.85%
025.33	2	2	265.80	54.730													
025.41	30	29	281.97	26.624	279.27	15.563	2.0435	5.57%	15.712	6.2525	16.910	5.65%	2.25%	6.08%	2.7046	7.0589	6.85%
025.42	11	11	262.89	53.334	271.60	29.117	6.2078	10.72%	25.217	9.6567	27.002	9.10%	3.48%	9.74%	2.7962	9.1091	6.88%
025.43	12	12	271.22	30.672	268.54	25.359	5.1763	9.44%	20.469	5.5797	21.216	7.74%	2.11%	8.02%	3.8024	5.3942	6.89%
025.52	1		245.13														
025.53	2	2	265.50	24.042													
025.99	1		203.00														
027.31	16	15	0.34992	0.02491	0.35156	0.01716	0.00313	4.88%	0.02380	0.00536	0.02440	6.85%	1.54%	7.02%	4.5484	0.00725	4.68%
027.32	6	6	0.36503	0.00833	0.36417	0.00461	0.00133	1.27%	0.00753	0.00504	0.00906	2.06%	1.38%	2.48%	1.7967	0.00538	4.66%
027.33	2	2	0.35475	0.02793													
027.41	28	28	0.36493	0.01834	0.36493	0.01746	0.00233	4.78%	0.01335	0.00731	0.01522	3.66%	2.00%	4.18%	2.0832	0.00948	4.65%
027.42	12	12	0.34568	0.04040	0.35712	0.01460	0.00298	4.09%	0.01681	0.01026	0.01969	4.72%	2.88%	5.53%	1.9203	0.01050	4.67%
027.43	11	10	0.34985	0.01884	0.34985	0.02137	0.00478	6.11%	0.01857	0.00454	0.01912	5.31%	1.30%	5.46%	4.2068	0.00350	4.68%
027.44	1		0.35050														
027.52	1		0.31060														
027.53	2	2	0.34525	0.00672													
028.31	17	16	113.99	6.4486	113.88	5.2701	0.93163	4.63%	6.0682	3.0860	6.8078	5.32%	2.71%	5.97%	2.2060	3.0625	7.84%
028.32	6	6	165.73	113.56	120.50	2.7670	0.79875	2.30%	0.53516	3.2312	3.2753	0.45%	2.71%	2.74%	1.0136	3.6067	7.78%
028.33	2	2	114.28	1.0981													
028.41	29	29	112.61	5.7599	113.14	4.1639	0.54674	3.68%	5.4061	3.0787	6.2213	4.81%	2.74%	5.53%	2.0207	3.6099	7.85%
028.42	14	14	113.89	10.693	117.26	3.7260	0.70414	3.18%	7.2702	3.6979	8.1566	6.27%	3.19%	7.03%	2.2058	4.2257	7.81%
028.43	13	13	110.06	9.8883	110.85	9.3993	1.8434	8.48%	9.7730	3.9469	10.540	8.92%	3.60%	9.62%	2.6704	5.1515	7.88%
028.44	5	5	94.592	59.369	94.592	59.369	18.774	62.76%	52.691	1.9433	52.726	67.89%	2.50%	67.93%	27.133	18.220	8.07%
028.52	1		110.23														
028.53	3	3	114.33	4.1932	114.33	4.1932	1.7119	3.67%	3.9264	2.0817	4.4441	3.43%	1.82%	3.89%	2.1349	2.6667	7.84%
031.00	1		0.59760														
031.01	58	57	0.63256	0.06762	0.64029	0.01677	0.00157	2.62%	0.02315	0.00830	0.02460	3.59%	1.29%	3.82%	2.9621	0.01017	4.28%
031.02	2	2	0.64250	0.01768													

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031.03	4	4	0.63119	0.02939	0.63119	0.02939	0.01039	4.66%	0.02881	0.00817	0.02995	4.56%	1.29%	4.74%	3.6663	0.00748	4.29%
031.06	1		0.61500														
031.41	34	34	0.64603	0.03130	0.64625	0.03110	0.00377	4.81%	0.02954	0.01461	0.03296	4.57%	2.26%	5.10%	2.2560	0.01708	4.27%
031.42	17	17	0.63722	0.04445	0.63864	0.03196	0.00548	5.00%	0.03104	0.01850	0.03613	4.82%	2.87%	5.61%	1.9535	0.02235	4.28%
031.43	15	14	0.62586	0.04658	0.62308	0.03419	0.00646	5.49%	0.03053	0.01700	0.03494	4.95%	2.76%	5.67%	2.0555	0.01586	4.29%
031.44	4	4	0.63039	0.03651	0.63039	0.03651	0.01291	5.79%	0.03368	0.00780	0.03457	5.24%	1.21%	5.38%	4.4314	0.02503	4.29%
031.52	1		0.47820														
031.53	3	3	0.65433	0.03400	0.65433	0.03400	0.01388	5.20%	0.03226	0.01519	0.03566	4.93%	2.32%	5.45%	2.3480	0.01733	4.26%
031.99	4	4	0.66313	0.02544	0.66313	0.02544	0.00900	3.84%	0.02471	0.00858	0.02616	3.73%	1.29%	3.94%	3.0485	0.01175	4.25%
032.02	5	5	1.2455	0.10625	1.2455	0.10625	0.03360	8.53%	0.10113	0.04607	0.11113	8.12%	3.70%	8.92%	2.4122	0.04660	3.87%
032.31	19	18	1.3193	0.07406	1.3285	0.05446	0.00908	4.10%	0.07516	0.01891	0.07750	5.70%	1.43%	5.87%	4.0979	0.02356	3.83%
032.32	4	4	1.3638	0.05721	1.3638	0.05721	0.02023	4.20%	0.05723	0.01000	0.05809	4.15%	0.72%	4.21%	5.8095	0.03250	3.82%
032.41	28	28	1.3313	0.08819	1.3365	0.07926	0.01059	5.93%	0.08739	0.02504	0.09090	6.55%	1.88%	6.82%	3.6308	0.02859	3.83%
032.42	14	14	1.3026	0.15012	1.3344	0.04750	0.00898	3.56%	0.03872	0.02203	0.04455	2.89%	1.64%	3.32%	2.0221	0.02321	3.83%
032.43	11	10	1.3395	0.04385	1.3378	0.03445	0.00770	2.58%	0.03032	0.02133	0.03707	2.28%	1.60%	2.79%	1.7381	0.03170	3.83%
032.44	1		1.3150														
032.52	1		1.2163														
032.53	2	2	1.3343	0.02227													
032.99	1		1.0635														
033.00	30	29	1.5498	0.18216	1.5680	0.08590	0.01128	5.48%	0.09718	0.01539	0.09839	6.16%	0.98%	6.23%	6.3920	0.01872	3.74%
033.01	33	32	1.6146	0.16852	1.6542	0.02572	0.00321	1.55%	0.03442	0.00705	0.03513	2.08%	0.43%	2.13%	4.9867	0.00918	3.71%
033.03	6	5	1.5110	0.49199	1.5110	0.49199	0.15558	32.56%	0.49176	0.02121	0.49222	32.55%	1.40%	32.58%	23.203	0.02200	3.76%
033.05	4	4	1.4935	0.24345	1.4935	0.24345	0.08607	16.30%	0.01683	0.00913	0.01915	1.04%	0.57%	1.19%	2.0976	0.01550	3.77%
033.31	1		120.00														
033.99	14	14	1.3030	0.51857	1.3668	0.42265	0.07987	30.92%	0.53038	0.03775	0.53173	41.49%	2.95%	41.60%	14.084	0.05500	3.82%
034.01	3	3	0.57283	0.06489	0.57283	0.06489	0.02649	11.33%	0.04678	0.06358	0.07894	8.17%	11.10%	13.78%	1.2415	0.06167	17.40%
034.04	5	5	0.55050	0.06262	0.55050	0.06262	0.01980	11.37%	0.06175	0.01470	0.06347	11.22%	2.67%	11.53%	4.3178	0.01620	17.50%
034.41	1		0.45000														
034.42	2	2	0.66750	0.94399													
034.43	4	4	0.58575	0.14390	0.58575	0.14390	0.05088	24.57%	0.14174	0.03516	0.14604	24.20%	6.00%	24.93%	4.1530	0.04250	17.34%
034.52	3	3	0.59083	0.10543	0.59083	0.10543	0.04304	17.84%	0.09779	0.05574	0.11256	16.55%	9.43%	19.05%	2.0194	0.06700	17.32%
034.53	4	4	0.52688	0.08317	0.52688	0.08317	0.02940	15.78%	0.10171	0.00776	0.10201	19.31%	1.47%	19.36%	13.151	0.02275	17.62%
034.99	1		0.46500														
035.01	2	2	0.41300	0.02687													
035.05	7	7	0.41003	0.02217	0.41003	0.02514	0.00672	6.13%	0.02105	0.00982	0.02323	5.13%	2.39%	5.67%	2.3659	0.01126	4.57%
035.31	19	18	0.40928	0.02311	0.40963	0.02559	0.00426	6.25%	0.02212	0.00946	0.02406	5.40%	2.31%	5.88%	2.5426	0.00991	4.57%
035.32	5	5	0.43269	0.05299	0.43269	0.05299	0.01676	12.25%	0.05097	0.02050	0.05494	11.78%	4.74%	12.70%	2.6800	0.02030	4.54%
035.41	31	31	0.41477	0.03098	0.41547	0.02510	0.00319	6.04%	0.02389	0.00976	0.02581	5.70%	2.33%	6.16%	2.6438	0.01150	4.56%

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035.42	12	11	0.39472	0.04675	0.40648	0.02655	0.00566	6.53%	0.02914	0.00972	0.03072	7.20%	2.40%	7.59%	3.1596	0.01282	4.58%
035.43	9	9	0.41400	0.01732	0.40962	0.00921	0.00217	2.25%	0.01571	0.01032	0.01879	3.79%	2.49%	4.54%	1.8207	0.01022	4.57%
035.52	1		0.39330														
035.53	2	2	0.38500	0.00000													
036.04	3	3	0.26333	0.01258	0.26333	0.01258	0.00514	4.78%	0.01041	0.01000	0.01443	3.95%	3.80%	5.48%	1.4434	0.01333	4.89%
036.42	12	12	0.24418	0.01327	0.24517	0.00876	0.00179	3.57%	0.01223	0.00729	0.01423	5.01%	2.98%	5.83%	1.9532	0.00743	4.94%
036.43	8	8	0.24914	0.02229	0.24802	0.02268	0.00567	9.14%	0.02165	0.00751	0.02292	8.69%	3.01%	9.20%	3.0523	0.00729	4.93%
036.53	1		0.22500														
037.31	19	17	118.21	6.2171	118.97	4.8959	0.83964	4.12%	3.9370	2.1058	4.4648	3.29%	1.76%	3.73%	2.1202	3.3394	7.79%
037.32	6	6	169.03	114.41	123.74	5.0524	1.4585	4.08%	1.8091	3.6824	4.1028	1.48%	3.01%	3.35%	1.1142	4.6767	7.75%
037.33	2	2	119.32	1.6709													
037.41	29	28	120.06	7.4612	119.95	4.6660	0.62352	3.89%	5.8984	3.3836	6.8000	4.89%	2.80%	5.63%	2.0097	3.7461	7.78%
037.42	14	14	126.95	10.415	126.96	10.141	1.9165	7.99%	9.7865	5.0403	11.008	7.71%	3.97%	8.67%	2.1840	5.3957	7.72%
037.43	15	14	123.35	9.9519	121.71	7.6591	1.4474	6.29%	9.9721	3.8005	10.672	8.10%	3.09%	8.67%	2.8080	5.5493	7.77%
037.44	4	4	102.91	29.856	102.91	29.856	10.556	29.01%	32.249	0.98252	32.264	33.64%	1.02%	33.65%	32.838	21.973	7.96%
037.52	1		98.845														
037.53	3	3	120.67	1.1547	120.67	1.1547	0.47140	0.96%		4.1633			3.45%			4.0000	7.78%
038.41	3	3	2.3394	0.96183	2.3394	0.96183	0.39267	41.11%		0.16000			8.97%			1.7173	14.08%
038.42	5	5	1.5370	0.19955	1.5370	0.19955	0.06310	12.98%	0.17651	0.13164	0.22019	11.48%	8.56%	14.33%	1.6726	0.13800	14.99%
038.43	8	7	1.9204	0.29565	1.8443	0.14570	0.03894	7.90%		0.21785			12.00%			0.24343	14.59%
038.51	1		1.8500														
038.52	1		1.9775														
038.53	2	2	2.0600	0.37477													
038.99	1		0.48000														
040.43	2	2	14.723	2.9380													
041.42	1		0.00000														
054.01	6	6	6.6192	2.2446	5.9575	0.56197	0.16223	9.43%	0.51581	0.13027	0.53201	9.01%	2.28%	9.30%	4.0839	0.12167	10.86%
054.02	5	5	6.0732	0.40794	6.0732	0.40794	0.12900	6.72%	0.35398	0.28675	0.45555	5.83%	4.72%	7.50%	1.5887	0.32160	10.83%
101.01	1		544.50														
102.01	1		50.394														
104.03	1		1.9450														
105.00	1		2.6300														
106.01	1		1.2485														
106.02	17	16	1.7890	1.3157	1.6332	1.1340	0.20047	69.44%	0.90184	0.20389	0.92460	62.74%	14.18%	64.32%	4.5348	0.30074	
108.01	2	2	156.50	221.32													
108.02	3	3	2.0683	1.8687	2.0683	1.8687	0.76290	90.35%	1.8674	0.09704	1.8700	90.29%	4.69%	90.41%	19.270	0.09667	
109.01	1		76.000														
109.02	16	15	55.298	23.628	58.053	12.754	2.3285	21.97%	19.203	1.7956	19.287	32.02%	2.99%	32.16%	10.741	2.2701	8.68%

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110.00	1		2.3350														
120.00	16	15	0.69427	0.03414	0.69530	0.01129	0.00206	1.62%	0.02465	0.00497	0.02515	3.52%	0.71%	3.59%	5.0548	0.00600	4.22%
120.01	2	2	0.83175	0.27330													
120.02	3	3	0.70697	0.03247	0.70697	0.03247	0.01326	4.59%	0.02638	0.02678	0.03759	3.73%	3.79%	5.32%	1.4038	0.03773	4.21%
120.05	3	3	0.66003	0.06076	0.66003	0.06076	0.02480	9.21%	0.05873	0.02199	0.06271	8.90%	3.33%	9.50%	2.8516	0.02747	4.26%
121.00	16	15	0.80603	0.01980	0.81040	0.01131	0.00206	1.40%	0.01340	0.00748	0.01535	1.66%	0.92%	1.90%	2.0515	0.00833	4.13%
121.01	2	2	0.78775	0.05339													
121.02	3	3	0.82402	0.05003	0.82402	0.05003	0.02042	6.07%	0.04883	0.01539	0.05120	5.93%	1.87%	6.21%	3.3277	0.02017	4.12%
121.05	3	3	0.75867	0.08949	0.75867	0.08949	0.03653	11.80%	0.08859	0.01786	0.09037	11.68%	2.35%	11.91%	5.0599	0.02067	4.17%
122.00	16	15	1.1929	0.07414	1.1767	0.02489	0.00454	2.12%	0.02763	0.00916	0.02911	2.35%	0.78%	2.48%	3.1772	0.01047	3.90%
122.01	3	3	1.2047	0.06536	1.2047	0.06536	0.02668	5.43%	0.06506	0.00883	0.06566	5.40%	0.73%	5.45%	7.4346	0.01000	3.89%
122.02	3	3	1.1865	0.02088	1.1865	0.02088	0.00852	1.76%	0.01442	0.02135	0.02577	1.22%	1.80%	2.17%	1.2068	0.02800	3.90%
122.05	3	3	1.1450	0.11707	1.1450	0.11707	0.04779	10.22%	0.11402	0.03753	0.12004	9.96%	3.28%	10.48%	3.1986	0.04000	3.92%
123.99	1		2.2600														
124.00	15	14	0.26321	0.02096	0.26479	0.00807	0.00153	3.05%	0.01232	0.00637	0.01387	4.60%	2.38%	5.18%	2.1759	0.00600	4.89%
124.01	2	2	0.33275	0.11632													
124.02	2	2	0.28250	0.00354													
124.05	1		0.16100														
125.00	15	14	2.4136	0.30438	2.3422	0.09410	0.01778	4.02%	0.09923	0.01321	0.10010	4.27%	0.57%	4.31%	7.5761	0.01814	3.52%
125.01	3	3	2.4150	0.04161	2.4150	0.04161	0.01699	1.72%	0.03916	0.01988	0.04392	1.62%	0.82%	1.82%	2.2088	0.02600	3.50%
125.02	3	3	2.3042	0.09155	2.3042	0.09155	0.03737	3.97%	0.07225	0.07951	0.10743	3.14%	3.45%	4.66%	1.3511	0.10440	3.53%
125.05	3	3	2.2340	0.18829	2.2340	0.18829	0.07687	8.43%	0.18622	0.03940	0.19034	8.34%	1.76%	8.52%	4.8311	0.05400	3.54%
126.00	16	16	0.76653	0.02814	0.76397	0.02059	0.00364	2.70%	0.02705	0.01098	0.02919	3.53%	1.43%	3.81%	2.6589	0.01294	4.17%
126.01	3	3	0.79680	0.04184	0.79680	0.04184	0.01708	5.25%	0.04052	0.01473	0.04311	5.09%	1.85%	5.41%	2.9263	0.01860	4.14%
126.02	3	3	0.83148	0.06367	0.83148	0.06367	0.02599	7.66%		0.02370			2.98%			0.02557	4.11%
126.05	3	3	0.73750	0.05712	0.73750	0.05712	0.02332	7.75%	0.02581	0.00050	0.02581	3.65%	0.07%	3.65%	51.624	0.00700	4.19%
127.00	15	15	0.36767	0.01653	0.36670	0.01643	0.00300	4.48%	0.01501	0.00980	0.01793	4.08%	2.66%	4.88%	1.8297	0.00960	4.65%
127.01	1		0.32750														
127.02	3	3	0.38820	0.02039	0.38820	0.02039	0.00832	5.25%	0.01299	0.02223	0.02574	3.35%	5.73%	6.63%	1.1582	0.02600	4.61%
127.05	3	3	0.35733	0.03637	0.35733	0.03637	0.01485	10.18%	0.03622	0.00473	0.03653	10.14%	1.32%	10.22%	7.7293	0.00600	4.67%
128.00	16	15	0.46260	0.04419	0.46450	0.02747	0.00502	5.91%	0.03079	0.00541	0.03127	6.54%	1.15%	6.64%	5.7776	0.00667	4.49%
128.01	2	2	0.47325	0.01167													
128.02	3	3	0.47832	0.02565	0.47832	0.02565	0.01047	5.36%	0.02420	0.01203	0.02703	5.06%	2.52%	5.65%	2.2458	0.01610	4.47%
128.05	3	3	0.44350	0.07643	0.44350	0.07643	0.03120	17.23%	0.07606	0.01065	0.07680	17.15%	2.40%	17.32%	7.2090	0.01367	4.52%
129.00	16	15	0.89750	0.03519	0.89132	0.02029	0.00370	2.28%	0.01551	0.00895	0.01791	1.74%	1.00%	2.01%	2.0005	0.01060	4.07%
129.01	3	3	0.87475	0.06051	0.87475	0.06051	0.02470	6.92%	0.06034	0.00643	0.06068	6.90%	0.74%	6.94%	9.4343	0.00850	4.08%
129.02	3	3	0.91313	0.00595	0.91313	0.00595	0.00243	0.65%		0.02476			2.72%			0.03640	4.05%
129.05	3	3	0.84150	0.06592	0.84150	0.06592	0.02691	7.83%	0.06470	0.01786	0.06712	7.69%	2.12%	7.98%	3.7590	0.02167	4.10%

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
130.00	16	16	0.62147	0.03238	0.61916	0.01620	0.00286	2.62%	0.01236	0.01609	0.02029	2.00%	2.61%	3.29%	1.2609	0.01919	4.30%
130.01	3	3	0.60067	0.07309	0.60067	0.07309	0.02984	12.17%	0.07186	0.01888	0.07430	11.96%	3.14%	12.37%	3.9361	0.02200	4.32%
130.02	3	3	0.61047	0.05150	0.61047	0.05150	0.02103	8.44%	0.07143	0.00885	0.07197	11.60%	1.44%	11.69%	8.1342	0.05487	4.31%
130.05	4	4	0.62825	0.04631	0.62825	0.04631	0.01637	7.37%	0.04623	0.00371	0.04638	7.36%	0.59%	7.38%	12.508	0.00400	4.29%
131.00	15	14	0.17029	0.01137	0.16915	0.00690	0.00130	4.08%	0.00875	0.00264	0.00914	5.21%	1.57%	5.44%	3.4650	0.00371	5.23%
131.01	3	3	0.26750	0.16697	0.26750	0.16697	0.06816	62.42%	0.16681	0.01015	0.16712	62.36%	3.79%	62.47%	16.472	0.01273	4.88%
131.02	3	3	0.16758	0.00915	0.16758	0.00915	0.00374	5.46%	0.00649	0.00913	0.01120	3.87%	5.45%	6.68%	1.2269	0.01003	5.23%
131.05	3	3	0.12500	0.04023	0.12500	0.04023	0.01643	32.19%	0.03974	0.00889	0.04072	31.79%	7.11%	32.58%	4.5815	0.01067	5.47%
132.00	16	15	0.53397	0.02674	0.53247	0.02502	0.00457	4.70%	0.01897	0.01245	0.02269	3.58%	2.35%	4.28%	1.8225	0.01260	4.40%
132.01	3	3	0.64817	0.18825	0.64817	0.18825	0.07685	29.04%	0.18815	0.00865	0.18835	29.03%	1.33%	29.06%	21.773	0.01100	4.27%
132.02	3	3	0.54647	0.01172	0.54647	0.01172	0.00479	2.15%	0.00888	0.01082	0.01400	1.63%	1.98%	2.56%	1.2937	0.01247	4.38%
132.05	3	3	0.49917	0.04026	0.49917	0.04026	0.01644	8.07%	0.03978	0.00880	0.04074	7.97%	1.76%	8.16%	4.6279	0.00967	4.44%
133.00	16	16	0.87747	0.07970	0.86377	0.04974	0.00879	5.76%	0.03921	0.02723	0.04773	4.56%	3.16%	5.55%	1.7531	0.02594	4.09%
133.05	4	4	0.89900	0.09853	0.89900	0.09853	0.03484	10.96%	0.09801	0.01423	0.09904	10.90%	1.58%	11.02%	6.9599	0.01950	4.06%
133.99	1		0.97000														
134.00	16	15	0.61603	0.03795	0.61797	0.01762	0.00322	2.85%	0.03006	0.00859	0.03126	4.83%	1.38%	5.03%	3.6388	0.01087	4.30%
134.01	3	3	0.66117	0.08615	0.66117	0.08615	0.03517	13.03%	0.08509	0.01903	0.08719	12.87%	2.88%	13.19%	4.5816	0.02167	4.26%
134.02	3	3	0.60477	0.06800	0.60477	0.06800	0.02776	11.24%	0.06569	0.02488	0.07024	10.86%	4.11%	11.61%	2.8232	0.03380	4.31%
134.05	3	3	0.61950	0.01381	0.61950	0.01381	0.00564	2.23%	0.01225	0.00903	0.01522	1.98%	1.46%	2.46%	1.6854	0.01233	4.30%
135.00	16	15	0.46547	0.01954	0.46763	0.01796	0.00328	3.84%	0.01932	0.00604	0.02024	4.14%	1.29%	4.34%	3.3503	0.00893	4.48%
135.01	3	3	0.49833	0.05508	0.49833	0.05508	0.02249	11.05%	0.05370	0.01738	0.05644	10.78%	3.49%	11.33%	3.2477	0.01933	4.44%
135.02	3	3	0.47590	0.01280	0.47590	0.01280	0.00523	2.69%		0.02397			5.04%		0.03113	4.47%	
135.05	3	3	0.45117	0.03364	0.45117	0.03364	0.01373	7.46%	0.03309	0.00853	0.03418	7.34%	1.89%	7.58%	4.0046	0.00900	4.51%
136.00	2	2	0.18750	0.03323													
136.01	4	4	0.17625	0.01240	0.17625	0.01240	0.00438	7.04%	0.01239	0.00050	0.01240	7.03%	0.28%	7.04%	24.809	0.00050	5.19%
136.02	1		0.15500														
136.03	2	2	0.18300	0.00424													
136.99	2	2	0.17075	0.02227													
137.00	11	11	0.39514	0.03760	0.40152	0.02422	0.00516	6.03%	0.01703	0.01054	0.02003	4.20%	2.60%	4.94%	1.8996	0.01227	4.59%
137.01	2	2	0.44800	0.01697													
137.02	3	3	0.41072	0.02503	0.41072	0.02503	0.01022	6.09%	0.02469	0.00579	0.02536	6.01%	1.41%	6.18%	4.3799	0.00703	4.57%
137.05	3	3	0.33100	0.09832	0.33100	0.09832	0.04014	29.70%	0.09828	0.00408	0.09836	29.69%	1.23%	29.72%	24.094	0.00467	4.72%
138.00	16	15	0.63057	0.04215	0.63167	0.02756	0.00503	4.36%	0.03286	0.00570	0.03335	5.15%	0.89%	5.23%	5.8474	0.00727	4.29%
138.01	3	3	0.71933	0.19502	0.71933	0.19502	0.07962	27.11%	0.19437	0.02255	0.19567	27.02%	3.13%	27.20%	8.6786	0.02600	4.20%
138.02	3	3	0.67920	0.05502	0.67920	0.05502	0.02246	8.10%	0.05308	0.02044	0.05688	7.82%	3.01%	8.38%	2.7826	0.02887	4.24%
138.05	3	3	0.61617	0.10962	0.61617	0.10962	0.04475	17.79%	0.10866	0.02042	0.11056	17.64%	3.31%	17.94%	5.4154	0.02367	4.30%
139.00	2	2	0.12000	0.08485													
139.02	2	2	0.05000	0.07071													



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160.99	2	2	0.53875	0.05480													
161.99	2	2	0.00000	0.00000													
162.99	2	2	0.29500	0.21920													
163.99	2	2	0.00000	0.00000													
164.99	2	2	0.10000	0.14142													
165.99	4	4	3.6561	1.4901	3.6561	1.4901	0.52684	40.76%	0.05517	0.04161	0.06910	1.89%	1.43%	2.37%	1.6606	0.24175	3.29%
166.99	1		0.94350														
167.99	1		0.56600														
400.01	3	3	0.53017	0.01141	0.53017	0.01141	0.00466	2.15%	0.01134	0.00168	0.01147	2.14%	0.32%	2.16%	6.8126	0.00167	
516.00	3	3	0.07337	0.02740	0.07337	0.02740	0.01119	37.35%	0.02709	0.00584	0.02771	36.92%	7.96%	37.77%	4.7426	0.00607	23.70%
516.42	1		0.00000														
516.53	3	3	0.05333	0.05033	0.05333	0.05033	0.02055	94.37%								0.00000	24.87%
518.31	1		0.00000														
518.34	1		0.06680														
518.41	3	3	0.06683	0.00869	0.06683	0.00869	0.00355	13.01%	0.00245	0.00050	0.00250	3.41%	0.70%	3.48%	5.0000	0.01633	24.04%
518.42	1		0.00000														
518.52	1		0.08700														
518.53	4	4	22.144	44.104	22.144	44.104	15.593	199.17%	0.01225	0.00408	0.01291	13.36%	4.45%	14.08%	3.1623	0.15250	10.04%
520.41	2	2	3.4808	1.5638													
520.42	1		6.0000														
520.43	4	4	4.1638	1.9408	4.1638	1.9408	0.68616	46.61%	0.22942	0.32601	0.39864	4.48%	6.36%	7.78%	1.2228	0.30750	12.91%
520.52	1		5.8380														
520.53	1		1,458.0														
520.99	1		5.2150														
526.31	2	2	0.00625	0.00884													
526.34	1		0.07860														
526.41	2	2	0.05975	0.08450													
526.42	1		0.00000														
526.52	1		0.10850														
526.53	4	4	18.129	35.914	18.129	35.914	12.698	198.11%	0.05354	0.10528	0.11811	31.19%	61.33%	68.80%	1.1219	1.5975	10.34%
529.99	5	5	11.471	14.656	11.471	14.656	4.6345	127.76%	8.6867	2.1225	8.9422	147.81%	36.12%	152.16%	4.2131	4.7420	31.34%
539.42	1		4.5000														
539.43	2	2	2.2975	2.6481													
539.52	1		3.9210														
539.53	1		1,848.5														
600.01	3	3	3.9633	0.89891												0.07333	
600.08	1		4.0000														
600.12	1		10.000														

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600.13	1		13.755														
600.14	1		1.0000														
600.20	1		2.5000														
600.21	1		0.60000														
600.98	1		4.6000														
601.20	1		0.60900														
601.21	1		0.00000														
601.23	1		0.00000														
602.20	1		0.05500														
602.21	1		0.00000														
602.23	1		0.00000														
603.20	1		0.00300														
603.21	1		0.00000														
603.23	1		0.00000														
604.21	1		0.00000														
604.23	1		0.00000														
610.01	2	2	3,900.0	4,384.1													
610.07	2	2	892.50	152.03													
610.08	1		0.84250														
610.09	1		633.00														
610.20	1		735.00														
610.25	1		838.00														
610.98	1		650.00														
620.09	1		2.7100														
630.03	1		2.0000														
630.05	2	2	5.6275	2.9168													
630.20	1		0.80000														
640.01	2	2	57.975	4.6315													
640.03	1		97.250														
640.05	3	3	79.567	27.259												0.08000	
640.25	1		22.000														
650.01	1		23.450														
650.06	2	2	78.490	12.007													
650.07	1		25.000														
650.20	1		29.700														
650.21	1		0.00000														