

AAFCO Check Sample Program
All Methods Report



AAFCO
Check Sample Program



Proficiency For Individual Methods
Sample # 201530
Dairy Feed, Medicated
Regular Program

Labs Reporting: 213
Issue Date : 11/30/2015

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
000.02	1		0.30000														
001.00	9	8	10.176	0.49700	10.150	0.30734	0.07244	3.03%	0.49348	0.08350	0.50049	4.85%	0.82%	4.92%	5.9940	0.10026	2.82%
001.03	11	11	10.418	0.09001	10.417	0.07061	0.01505	0.68%	0.08679	0.03371	0.09311	0.83%	0.32%	0.89%	2.7621	0.03273	2.81%
001.05	1		10.395														
001.07	39	37	10.400	0.32732	10.369	0.23999	0.02753	2.31%	0.31917	0.10266	0.33527	3.07%	0.99%	3.22%	3.2660	0.09679	2.81%
001.08	2	0															
001.99	16	15	10.167	0.41609	10.120	0.42946	0.07592	4.24%	0.40967	0.10299	0.42242	4.03%	1.01%	4.15%	4.1016	0.09375	2.82%
002.00	4	4	15.443	0.21926	15.443	0.21926	0.10963	1.42%	0.21386	0.06837	0.22453	1.38%	0.44%	1.45%	3.2838	0.07000	2.54%
002.01	12	12	15.321	0.23536	15.345	0.21284	0.04345	1.39%	0.22077	0.11540	0.24911	1.44%	0.75%	1.63%	2.1587	0.13092	2.55%
002.02	3	3	15.272	0.42705	15.272	0.42705	0.24655	2.80%	0.42364	0.07612	0.43042	2.77%	0.50%	2.82%	5.6543	0.10297	2.56%
002.04	7	6	15.229	0.26914	15.335	0.42117	0.11256	2.75%	0.24921	0.14375	0.28770	1.64%	0.94%	1.89%	2.0014	0.20400	2.55%
002.05	38	34	15.402	0.16275	15.399	0.16834	0.01931	1.09%	0.15621	0.06460	0.16904	1.01%	0.42%	1.10%	2.6168	0.07851	2.55%
002.06	132	123	15.695	0.25463	15.702	0.26877	0.01667	1.71%	0.23660	0.13308	0.27146	1.51%	0.85%	1.73%	2.0398	0.15697	2.52%
002.08	3	3	15.261	0.16445	15.261	0.16445	0.09494	1.08%	0.11307	0.16887	0.20323	0.74%	1.11%	1.33%	1.2035	0.21250	2.56%
002.10	1		15.505														
002.11	5	5	16.766	0.67427	16.766	0.67427	0.30154	4.02%	0.66654	0.14399	0.68192	3.98%	0.86%	4.07%	4.7359	0.16100	2.44%
002.99	4	3	15.545	0.43511	15.545	0.43511	0.25121	2.80%	0.43434	0.03674	0.43589	2.79%	0.24%	2.80%	11.863	0.11000	2.54%
003.00	13	13	3.4666	0.48529	3.4922	0.49154	0.09640	14.08%	0.48235	0.07537	0.48820	13.91%	2.17%	14.08%	6.4773	0.08819	3.31%
003.01	2	0															
003.06	20	19	3.5491	0.44146	3.5824	0.46089	0.07287	12.87%	0.43775	0.08082	0.44515	12.33%	2.28%	12.54%	5.5076	0.10446	3.30%
003.09	22	22	3.4806	0.46219	3.4768	0.48595	0.07326	13.98%	0.45810	0.08681	0.46625	13.16%	2.49%	13.40%	5.3712	0.08716	3.32%
003.10	34	33	3.1836	0.39483	3.1828	0.43732	0.05383	13.74%	0.38987	0.08820	0.39972	12.25%	2.77%	12.56%	4.5320	0.09655	3.36%
003.11	5	5	4.1830	0.54412	4.1830	0.54412	0.24334	13.01%	0.54147	0.07596	0.54677	12.94%	1.82%	13.07%	7.1981	0.07400	3.22%
003.12	9	8	3.2969	0.35127	3.1738	0.31209	0.07356	9.83%	0.34841	0.06329	0.35411	10.57%	1.92%	10.74%	5.5946	0.08222	3.36%
003.13	10	9	3.4959	0.49134	3.4879	0.54025	0.12734	15.49%	0.49046	0.04146	0.49221	14.03%	1.19%	14.08%	11.873	0.04722	3.31%
003.14	38	35	2.9380	0.36079	2.9095	0.35584	0.04137	12.23%	0.35185	0.11290	0.36952	11.98%	3.84%	12.58%	3.2730	0.12675	3.41%
003.99	3	3	5.7200	2.9950	5.7200	2.9950	1.7292	52.36%	2.2448	2.8039	3.5918	39.25%	49.02%	62.79%	1.2810	2.7400	3.08%
004.00	22	21	5.4835	0.33150	5.4948	0.33980	0.05243	6.18%	0.31959	0.12454	0.34300	5.83%	2.27%	6.26%	2.7541	0.12940	3.10%
004.01	2	0															
004.03	4	4	5.3223	1.2641	5.3223	1.2641	0.63206	23.75%	1.2531	0.23577	1.2751	23.54%	4.43%	23.96%	5.4082	0.26043	3.11%
004.06	31	29	5.4536	0.37809	5.4564	0.39249	0.05067	7.19%	0.37307	0.08682	0.38304	6.84%	1.59%	7.02%	4.4117	0.09160	3.10%
004.07	60	57	5.4832	0.56596	5.4342	0.47967	0.04379	8.83%	0.55262	0.17272	0.57898	10.08%	3.15%	10.56%	3.3522	0.19407	3.10%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
004.11	5	4	5.3025	1.6649	5.3025	1.6649	0.83244	31.40%	1.6646	0.04500	1.6652	31.39%	0.85%	31.40%	37.004	0.17600	3.11%
004.99	3	3	5.0050	0.08185	5.0050	0.08185	0.04726	1.64%	0.07879	0.03136	0.08480	1.57%	0.63%	1.69%	2.7044	0.04333	3.14%
005.00	100	92	12.374	0.27077	12.371	0.26577	0.01908	2.15%	0.26565	0.07415	0.27580	2.15%	0.60%	2.23%	3.7195	0.10248	2.74%
005.05	30	27	12.643	0.20600	12.617	0.17164	0.02216	1.36%	0.20300	0.04958	0.20896	1.61%	0.39%	1.65%	4.2146	0.05988	2.73%
005.11	5	5	10.162	3.2900	10.162	3.2900	1.4713	32.38%	3.2887	0.13183	3.2913	32.36%	1.30%	32.39%	24.966	0.15200	2.82%
005.99	9	9	12.482	0.37270	12.653	0.11959	0.02819	0.95%	0.36571	0.10163	0.37957	2.93%	0.81%	3.04%	3.7349	0.11889	2.73%
006.00	2	0															
006.01	2	0															
006.05	1		7.4000														
006.99	2	0															
008.02	16	14	7.7700	0.50203	7.8543	0.36715	0.06703	4.67%	0.45778	0.29146	0.54269	5.89%	3.75%	6.98%	1.8619	0.31690	2.93%
008.05	1		7.8500														
008.08	40	37	7.5132	0.57386	7.4967	0.65794	0.07450	8.78%	0.56435	0.14711	0.58321	7.51%	1.96%	7.76%	3.9645	0.17429	2.95%
008.99	1		7.6650														
009.04	1		17.710														
009.07	10	10	18.879	4.1117	19.237	1.7320	0.38730	9.00%	4.1070	0.27883	4.1165	21.75%	1.48%	21.80%	14.763	0.32203	2.28%
009.09	34	34	17.959	0.98609	17.980	1.0685	0.12957	5.94%	0.96920	0.25700	1.0027	5.40%	1.43%	5.58%	3.9016	0.28830	2.36%
009.99	4	3	18.250	1.1386	18.250	1.1386	0.65735	6.24%	1.1382	0.04203	1.1390	6.24%	0.23%	6.24%	27.097	0.17750	2.34%
010.03	2	0															
010.11	5	4	10.459	1.0432	10.459	1.0432	0.52161	9.97%	1.0428	0.04168	1.0436	9.97%	0.40%	9.98%	25.037	0.16800	2.81%
010.99	17	16	10.301	0.52229	10.377	0.43197	0.07408	4.16%	0.51788	0.09579	0.52666	5.03%	0.93%	5.11%	5.4983	0.11824	2.81%
011.01	82	74	11.329	0.42368	11.356	0.34241	0.02724	3.02%	0.41897	0.08914	0.42835	3.70%	0.79%	3.78%	4.8053	0.09674	2.77%
011.02	2	0															
011.03	1		7.7500														
011.99	4	3	10.627	0.41983	10.627	0.41983	0.24239	3.95%	0.41949	0.02380	0.42017	3.95%	0.22%	3.95%	17.651	0.07000	2.80%
012.00	9	7	26.892	0.27930	26.805	0.24647	0.06162	0.92%	0.26985	0.10184	0.28843	1.00%	0.38%	1.07%	2.8322	0.08750	1.93%
012.01	8	8	24.998	1.3668	24.949	1.1641	0.29102	4.67%	1.3233	0.48393	1.4090	5.29%	1.94%	5.64%	2.9115	0.51481	2.00%
012.02	1		26.000														
012.03	3	3	25.492	1.0022	25.492	1.0022	0.57861	3.93%	0.92563	0.54328	1.0733	3.63%	2.13%	4.21%	1.9756	0.54333	1.98%
012.04	5	5	25.285	0.56853	25.285	0.56853	0.25425	2.25%	0.55397	0.18080	0.58273	2.19%	0.72%	2.30%	3.2230	0.18600	1.99%
012.11	5	4	27.180	3.1000	27.180	3.1000	1.5500	11.41%	3.0990	0.11113	3.1010	11.40%	0.41%	11.41%	27.904	0.28000	1.92%
013.00	15	13	4.6340	0.54314	4.5248	0.53561	0.10122	11.84%	0.53869	0.09806	0.54754	11.62%	2.12%	11.82%	5.5835	0.13156	3.19%
013.02	26	24	5.1761	0.32107	5.1550	0.37552	0.05311	7.28%	0.29796	0.16913	0.34262	5.76%	3.27%	6.62%	2.0258	0.17306	3.12%
013.08	1		3.2890														
013.10	8	8	4.4610	0.55279	4.4300	0.49236	0.12309	11.11%	0.54940	0.08641	0.55615	12.32%	1.94%	12.47%	6.4360	0.09904	3.20%
013.12	1		4.3300														
013.13	3	3	5.6317	0.92933	5.6317	0.92933	0.53655	16.50%	0.92617	0.10840	0.93249	16.45%	1.92%	16.56%	8.6025	0.13667	3.08%
015.41	5	5	174.34	20.824	174.34	20.824	9.3129	11.94%	20.628	4.0335	21.019	11.83%	2.31%	12.06%	5.2110	4.8725	7.36%
015.42	1		187.85														
015.43	5	5	168.03	27.729	168.03	27.729	12.401	16.50%	27.499	5.0402	27.957	16.37%	3.00%	16.64%	5.5467	5.5132	7.40%
017.41	2	0															
017.42	5	5	7.4702	1.3810	7.4702	1.3810	0.61760	18.49%	1.3425	0.45787	1.4184	17.97%	6.13%	18.99%	3.0979	0.58436	11.82%
017.43	5	4	6.7038	0.76096	6.7038	0.76096	0.38048	11.35%	0.69946	0.42381	0.81784	10.43%	6.32%	12.20%	1.9297	1.2979	12.01%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
017.52	1		6.5500														
019.00	20	18	2.2323	0.08052	2.2283	0.07840	0.01272	3.52%	0.07925	0.02012	0.08177	3.55%	0.90%	3.66%	4.0636	0.02606	3.55%
019.03	1		2.2688														
019.08	9	7	2.2153	0.06334	2.1984	0.08583	0.02146	3.90%	0.06325	0.00494	0.06344	2.85%	0.22%	2.86%	12.849	0.01694	3.55%
019.09	1		2.0495														
019.31	29	25	2.2389	0.16430	2.2251	0.11861	0.01585	5.33%	0.16331	0.02550	0.16529	7.29%	1.14%	7.38%	6.4814	0.03163	3.55%
019.32	6	6	2.1975	0.10558	2.1547	0.04713	0.01361	2.19%	0.10368	0.02818	0.10744	4.72%	1.28%	4.89%	3.8125	0.03295	3.56%
019.33	1		2.2745														
019.41	35	34	2.2156	0.13129	2.2156	0.13609	0.01650	6.14%	0.12815	0.04040	0.13436	5.78%	1.82%	6.06%	3.3261	0.04469	3.55%
019.42	23	20	2.2365	0.18502	2.2262	0.19509	0.02941	8.76%	0.18379	0.03009	0.18624	8.22%	1.35%	8.33%	6.1885	0.04190	3.55%
019.43	20	18	2.2207	0.14961	2.2373	0.14814	0.02403	6.62%	0.14817	0.02933	0.15104	6.67%	1.32%	6.80%	5.1498	0.03755	3.54%
019.44	3	3	2.1733	0.12493	2.1733	0.12493	0.07213	5.75%	0.10890	0.08660	0.13913	5.01%	3.98%	6.40%	1.6066	0.10000	3.56%
019.52	3	3	2.4816	0.38486	2.4816	0.38486	0.22220	15.51%	0.35756	0.20133	0.41035	14.41%	8.11%	16.54%	2.0382	0.24993	3.49%
019.53	2	0															
019.99	6	5	2.1930	0.14589	2.1399	0.20891	0.06031	9.76%	0.13859	0.06442	0.15283	6.32%	2.94%	6.97%	2.3724	0.11833	3.57%
021.31	5	4	5.3875	1.8259	5.3875	1.8259	0.91296	33.89%	1.8256	0.05000	1.8263	33.89%	0.93%	33.90%	36.525	0.18400	12.42%
021.32	1		4.4500														
021.34	1		4.4950														
021.41	3	2	3.5046	1.5622	3.5046	1.5622	1.1046	44.57%	1.5609	0.08775	1.5634	44.54%	2.50%	44.61%	17.817	13.725	13.25%
021.42	2	0															
021.43	5	5	3.9410	0.61164	3.9410	0.61164	0.27353	15.52%	0.60582	0.11904	0.61741	15.37%	3.02%	15.67%	5.1866	0.13000	13.01%
021.52	3	3	4.2400	0.05292	4.2400	0.05292	0.03055	1.25%		0.34603			8.16%			0.44000	12.87%
021.53	3	3	4.2796	0.26699	4.2796	0.26699	0.15415	6.24%		0.53225			12.44%			0.50573	12.85%
022.31	18	17	232.94	6.9481	232.76	6.8622	1.1437	2.95%	6.7659	2.2353	7.1256	2.90%	0.96%	3.06%	3.1878	2.3744	7.04%
022.32	5	4	241.61	9.6274	241.61	9.6274	4.8137	3.98%	9.4200	2.8109	9.8305	3.90%	1.16%	4.07%	3.4972	7.5800	7.00%
022.33	2	0															
022.41	29	29	229.51	19.292	229.69	17.903	2.3508	7.79%	18.790	6.1871	19.782	8.19%	2.70%	8.62%	3.1973	7.1241	7.06%
022.42	21	19	235.52	18.088	236.32	20.372	3.2211	8.62%	17.169	8.0526	18.963	7.29%	3.42%	8.05%	2.3549	9.2076	7.03%
022.43	21	21	247.36	21.948	244.84	19.113	2.9493	7.81%	20.980	9.1151	22.875	8.48%	3.68%	9.25%	2.5095	9.1539	6.99%
022.44	2	0															
022.52	3	3	263.70	21.262	263.70	21.262	12.276	8.06%	19.395	12.320	22.978	7.36%	4.67%	8.71%	1.8650	14.200	6.91%
022.53	3	3	242.33	13.575	242.33	13.575	7.8375	5.60%	13.136	4.8401	14.000	5.42%	2.00%	5.78%	2.8924	4.8233	7.00%
022.99	2	0															
023.01	1		39.650														
024.53	2	0															
024.99	1		12.500														
025.31	17	15	580.73	32.973	577.60	35.060	6.1977	6.07%	32.858	3.8969	33.088	5.66%	0.67%	5.70%	8.4907	3.8173	6.14%
025.32	3	3	482.03	124.77	482.03	124.77	72.035	25.88%	124.19	16.947	125.34	25.76%	3.52%	26.00%	7.3962	18.133	6.31%
025.33	2	0															
025.41	27	23	546.19	36.707	551.79	30.545	4.2359	5.54%	36.162	8.9124	37.244	6.62%	1.63%	6.82%	4.1789	12.020	6.19%
025.42	19	17	499.83	83.430	502.37	72.870	12.145	14.51%	82.781	14.688	84.074	16.56%	2.94%	16.82%	5.7239	14.465	6.27%
025.43	16	13	529.31	58.301	538.93	44.893	8.1963	8.33%	58.009	8.2386	58.591	10.96%	1.56%	11.07%	7.1117	11.064	6.21%
025.52	3	3	518.71	54.137	518.71	54.137	31.256	10.44%	49.818	29.966	58.136	9.60%	5.78%	11.21%	1.9401	31.503	6.24%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
025.53	1		317.16														
025.99	2	0															
027.31	21	19	0.54134	0.03774	0.54106	0.03284	0.00507	6.07%	0.03691	0.01112	0.03855	6.82%	2.05%	7.12%	3.4653	0.01273	4.39%
027.32	5	4	0.56683	0.01516	0.56683	0.01516	0.00758	2.67%	0.01378	0.00894	0.01643	2.43%	1.58%	2.90%	1.8375	0.01060	4.36%
027.33	2	0															
027.41	31	29	0.55584	0.02282	0.55600	0.02073	0.00268	3.73%	0.02110	0.01230	0.02443	3.80%	2.21%	4.39%	1.9853	0.01203	4.37%
027.42	20	20	0.55507	0.03995	0.55441	0.02792	0.00441	5.04%	0.03855	0.01480	0.04130	6.95%	2.67%	7.44%	2.7908	0.01454	4.37%
027.43	20	19	0.55681	0.03306	0.55942	0.03313	0.00524	5.92%	0.03135	0.01481	0.03468	5.63%	2.66%	6.23%	2.3412	0.01704	4.37%
027.44	3	3	0.54117	0.01130	0.54117	0.01130	0.00652	2.09%		0.01953			3.61%		0.02300	4.39%	
027.52	2	0															
027.53	2	0															
027.99	3	3	0.57833	0.03786	0.57833	0.03786	0.02186	6.55%	0.03753	0.00707	0.03819	6.49%	1.22%	6.60%	5.4006	0.01000	4.34%
028.31	17	17	466.07	18.981	466.43	17.816	3.0555	3.82%	18.116	8.0114	19.809	3.89%	1.72%	4.25%	2.4726	8.5885	6.34%
028.32	5	5	469.68	33.399	469.68	33.399	14.937	7.11%	31.960	13.716	34.779	6.80%	2.92%	7.40%	2.5356	17.398	6.34%
028.33	2	0															
028.41	30	26	451.61	27.580	449.89	24.528	3.2207	5.45%	27.078	7.4097	28.074	6.00%	1.64%	6.22%	3.7887	9.2306	6.38%
028.42	21	18	448.92	39.951	446.55	32.223	5.0949	7.22%	39.754	5.6108	40.148	8.86%	1.25%	8.94%	7.1555	7.2737	6.39%
028.43	19	15	452.16	28.265	455.88	23.959	3.8866	5.26%	27.646	8.3208	28.871	6.11%	1.84%	6.39%	3.4697	11.736	6.37%
028.44	3	3	389.83	135.50	389.83	135.50	78.231	34.76%	134.74	20.211	136.25	34.56%	5.18%	34.95%	6.7413	19.000	6.52%
028.52	2	0															
028.53	2	0															
028.99	2	0															
031.00	2	0															
031.01	57	51	1.1633	0.04675	1.1586	0.03631	0.00346	3.13%	0.04598	0.01194	0.04751	3.95%	1.03%	4.08%	3.9781	0.01378	3.91%
031.02	2	0															
031.03	4	4	1.1797	0.02940	1.1797	0.02940	0.01470	2.49%	0.02789	0.01314	0.03083	2.36%	1.11%	2.61%	2.3456	0.01570	3.90%
031.06	1		1.1365														
031.41	34	29	1.1573	0.04992	1.1589	0.05794	0.00713	5.00%	0.04902	0.01333	0.05080	4.24%	1.15%	4.39%	3.8119	0.01661	3.91%
031.42	23	21	1.1395	0.09523	1.1470	0.08666	0.01307	7.56%	0.09360	0.02483	0.09684	8.21%	2.18%	8.50%	3.8994	0.03461	3.92%
031.43	20	17	1.1661	0.06055	1.1660	0.03437	0.00558	2.95%	0.05839	0.02268	0.06264	5.01%	1.94%	5.37%	2.7621	0.02772	3.91%
031.44	3	3	1.0867	0.09452	1.0867	0.09452	0.05457	8.70%	0.09399	0.01414	0.09504	8.65%	1.30%	8.75%	6.7206	0.02000	3.95%
031.53	2	0															
031.99	6	5	1.0000	0.24482	1.1158	0.19386	0.05596	17.37%	0.24337	0.03768	0.24627	24.34%	3.77%	24.63%	6.5353	0.06333	3.93%
032.02	2	0															
032.31	22	22	1.3097	0.08961	1.3115	0.05791	0.00873	4.42%	0.08844	0.02041	0.09076	6.75%	1.56%	6.93%	4.4462	0.02141	3.84%
032.32	5	5	1.2738	0.18613	1.2738	0.18613	0.08324	14.61%	0.18605	0.00753	0.18620	14.61%	0.59%	14.62%	24.738	0.00792	3.86%
032.41	32	28	1.3141	0.06560	1.3231	0.07243	0.00920	5.47%	0.06340	0.02382	0.06773	4.82%	1.81%	5.15%	2.8430	0.02511	3.83%
032.42	22	20	1.3309	0.07278	1.3375	0.05892	0.00909	4.41%	0.07144	0.01965	0.07409	5.37%	1.48%	5.57%	3.7711	0.02791	3.83%
032.43	21	19	1.3343	0.04624	1.3213	0.04803	0.00741	3.64%	0.04457	0.01740	0.04785	3.34%	1.30%	3.59%	2.7499	0.02641	3.84%
032.44	3	3	1.2700	0.05568	1.2700	0.05568	0.03215	4.38%	0.05323	0.02309	0.05802	4.19%	1.82%	4.57%	2.5125	0.02667	3.86%
032.52	1		1.3456														
032.53	2	0															
032.99	4	3	1.3213	0.02511	1.3213	0.02511	0.01450	1.90%	0.02426	0.00917	0.02593	1.84%	0.69%	1.96%	2.8291	0.01550	3.84%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
033.00	25	21	2.7706	0.07262	2.7615	0.07059	0.01041	2.56%	0.07186	0.01485	0.07338	2.59%	0.54%	2.65%	4.9403	0.02260	3.43%
033.01	35	31	2.8895	0.11871	2.8832	0.06286	0.00762	2.18%	0.11680	0.02998	0.12058	4.04%	1.04%	4.17%	4.0219	0.03452	3.41%
033.03	6	5	2.8200	0.14089	2.8670	0.19354	0.05587	6.75%	0.12996	0.07694	0.15103	4.61%	2.73%	5.36%	1.9629	0.09667	3.41%
033.05	3	3	2.9417	0.25121	2.9417	0.25121	0.14504	8.54%	0.24906	0.04637	0.25334	8.47%	1.58%	8.61%	5.4638	0.05667	3.40%
033.99	9	8	2.6819	0.20562	2.6288	0.28321	0.06675	10.77%	0.20196	0.05462	0.20921	7.53%	2.04%	7.80%	3.8302	0.05622	3.46%
034.01	2	0															
034.04	5	5	2.6580	0.21441	2.6580	0.21441	0.09589	8.07%	0.21399	0.01897	0.21483	8.05%	0.71%	8.08%	11.322	0.02400	13.81%
034.31	1		2.6450														
034.43	1		2.4300														
034.52	5	4	2.7725	0.11471	2.7725	0.11471	0.05735	4.14%	0.07077	0.12767	0.14597	2.55%	4.60%	5.27%	1.1434	0.34200	13.72%
034.53	8	8	3.0798	0.64690	3.0798	0.73359	0.18340	23.82%	0.57509	0.41895	0.71151	18.67%	13.60%	23.10%	1.6983	0.38994	13.51%
034.99	3	3	2.1033	0.98608	2.1033	0.98608	0.56931	46.88%	0.97641	0.19485	0.99566	46.42%	9.26%	47.34%	5.1099	0.26667	14.30%
035.01	3	3	1.0395	0.28144	1.0395	0.28144	0.16249	27.07%	0.28143	0.00292	0.28144	27.07%	0.28%	27.08%	96.535	0.00367	3.98%
035.05	5	5	0.97640	0.01142	0.97640	0.01142	0.00511	1.17%		0.02253			2.31%		0.02640	4.01%	
035.31	20	17	0.90941	0.06590	0.89943	0.07012	0.01109	7.80%	0.06530	0.01260	0.06650	7.18%	1.39%	7.31%	5.2766	0.01669	4.06%
035.32	4	4	0.78459	0.15387	0.78459	0.15387	0.07694	19.61%	0.15377	0.00811	0.15398	19.60%	1.03%	19.63%	18.989	0.00978	4.15%
035.41	30	28	0.88514	0.03646	0.88677	0.04101	0.00538	4.62%	0.03329	0.02103	0.03937	3.76%	2.38%	4.45%	1.8724	0.02130	4.07%
035.42	17	16	0.89058	0.09115	0.90771	0.07191	0.01233	7.92%	0.08945	0.02474	0.09281	10.04%	2.78%	10.42%	3.7516	0.03152	4.06%
035.43	13	12	0.89940	0.03826	0.89583	0.04187	0.00821	4.67%	0.03738	0.01158	0.03913	4.16%	1.29%	4.35%	3.3800	0.01653	4.07%
035.52	2	0															
035.53	1		0.95300														
035.99	4	4	0.85000	0.33050	0.85000	0.33050	0.16525	38.88%	0.33032	0.01581	0.33069	38.86%	1.86%	38.91%	20.915	0.02000	4.10%
036.04	4	4	0.37136	0.05054	0.37136	0.05054	0.02527	13.61%	0.05018	0.00851	0.05090	13.51%	2.29%	13.71%	5.9820	0.00973	4.64%
036.42	20	19	0.38956	0.03244	0.38851	0.03435	0.00557	8.84%	0.03174	0.00950	0.03313	8.15%	2.44%	8.50%	3.4892	0.01066	4.61%
036.43	9	9	0.38459	0.01711	0.38618	0.01629	0.00384	4.22%	0.01485	0.01203	0.01911	3.86%	3.13%	4.97%	1.5891	0.01259	4.62%
036.99	2	0															
037.31	19	17	584.72	25.062	585.18	20.377	3.3961	3.48%	24.561	7.0531	25.554	4.20%	1.21%	4.37%	3.6230	6.8751	6.13%
037.32	4	4	580.50	135.51	580.50	135.51	67.757	23.34%	135.32	10.231	135.71	23.31%	1.76%	23.38%	13.264	12.400	6.14%
037.33	3	3	589.71	12.112	589.71	12.112	6.9926	2.05%	12.018	2.1217	12.204	2.04%	0.36%	2.07%	5.7519	2.8233	6.12%
037.41	30	30	572.96	36.313	573.89	38.953	5.0288	6.79%	34.840	14.479	37.729	6.08%	2.53%	6.58%	2.6057	14.524	6.15%
037.42	21	20	570.92	71.475	564.92	83.561	12.894	14.79%	69.035	26.184	73.834	12.09%	4.59%	12.93%	2.8198	23.814	6.16%
037.43	20	18	586.27	46.983	590.60	51.157	8.0886	8.66%	46.179	12.244	47.774	7.88%	2.09%	8.15%	3.9019	15.303	6.12%
037.44	2	0															
037.52	2	0															
037.53	1		615.50														
037.99	3	2	534.75	0.35355	534.75	0.35355	0.25000	0.07%		3.3541			0.63%		16.667	6.22%	
038.41	1		2.3980														
038.42	3	3	2.2004	0.16162	2.2004	0.16162	0.09331	7.34%	0.04921	0.21772	0.22321	2.24%	9.89%	10.14%	1.0252	0.23480	14.21%
038.43	5	5	2.0296	0.18384	2.0296	0.18384	0.08222	9.06%	0.17319	0.08723	0.19391	8.53%	4.30%	9.55%	2.2231	0.10636	14.38%
038.52	1		2.4000														
038.53	3	3	2.3402	0.39847	2.3402	0.39847	0.23006	17.03%	0.39692	0.04953	0.40000	16.96%	2.12%	17.09%	8.0753	0.06777	14.08%
040.42	1		9.5750														
040.43	1		8.9736														

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
040.52	2	0															
040.53	1		9.0584														
041.52	1		2.1500														
041.53	1		1.8672														
042.99	1		1.6000														
051.00	5	5	266.88	11.086	266.88	11.086	4.9577	4.15%	5.0215	13.977	14.852	1.88%	5.24%	5.56%	1.0626	15.767	6.90%
051.03	10	9	251.47	11.373	254.10	13.242	2.9609	5.21%	8.3389	10.937	13.754	3.32%	4.35%	5.47%	1.2575	10.517	6.95%
051.99	2	0															
057.01	1		0.29000														
061.99	2																
065.03	4	2	1.5300	0.09899	1.5300	0.09899	0.07000	6.47%	0.09874	0.01000	0.09925	6.45%	0.65%	6.49%	9.9247	0.07000	15.00%
065.04	2	0															
065.99	3	2	2.0600	0.65054	2.0600	0.65054	0.46000	31.58%	0.65054	0.00000	0.65054	31.58%	0.00%	31.58%		0.03333	14.35%
067.99	1		0.00000														
079.99	1		0.00000														
088.99	1		7.8000														
091.99	1		0.00000														
095.03	1		9.0800														
095.99	1		4.0550														
101.00	1		489.75														
101.01	1		888.50														
101.02	1		1,335.0														
101.99	1		1,510.0														
102.01	2	0															
102.02	2	0															
103.01	2	0															
103.02	3	3	21.963	10.556	21.963	10.556	6.0942	48.06%	10.489	1.6692	10.621	47.76%	7.60%	48.36%	6.3632	1.5733	10.05%
104.00	1		4.3450														
104.03	6	4	1.9163	0.20499	1.9163	0.20499	0.06483	10.70%	0.12507	0.22970	0.26154	6.53%	11.99%	13.65%	1.1386	0.38000	14.51%
105.00	3	2	2.7375	0.10253	2.7375	0.10253	0.07250	3.75%	0.09747	0.04500	0.10735	3.56%	1.64%	3.92%	2.3857	0.27333	13.75%
106.00	2	0															
106.02	21	19	43.397	10.961	44.826	11.143	1.7619	24.86%	10.609	3.8944	11.301	24.45%	8.97%	26.04%	2.9020	4.7902	
107.00	1		12.500														
107.99	2	0															
108.01	1		4.5000														
108.02	4	4	8.1488	3.9101	8.1488	3.9101	1.9550	47.98%	3.8997	0.40220	3.9204	47.86%	4.94%	48.11%	9.7475	0.49750	
108.99	1		12.400														
109.02	19	17	156.50	23.671	153.49	27.514	4.5856	17.93%	23.467	4.3903	23.874	14.99%	2.81%	15.25%	5.4379	4.3411	7.50%
113.01	1		0.62350														
114.01	1		0.23550														
120.00	16	16	0.78569	0.01934	0.78581	0.02170	0.00384	2.76%	0.01813	0.00954	0.02048	2.31%	1.21%	2.61%	2.1465	0.01091	4.15%
120.01	1		0.82500														
120.02	2	0															

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
120.05	3	3	0.77367	0.04666	0.77367	0.04666	0.02694	6.03%	0.04299	0.02566	0.05007	5.56%	3.32%	6.47%	1.9513	0.03000	4.16%
121.00	16	14	1.0078	0.02727	1.0115	0.01872	0.00331	1.85%	0.02543	0.01394	0.02900	2.52%	1.38%	2.88%	2.0795	0.01862	3.99%
121.01	1		1.0300														
121.02	2	0															
121.05	3	3	1.0233	0.02434	1.0233	0.02434	0.01405	2.38%	0.02141	0.01637	0.02695	2.09%	1.60%	2.63%	1.6463	0.01867	3.99%
122.00	17	15	1.2537	0.02516	1.2550	0.02822	0.00499	2.25%	0.02259	0.01567	0.02749	1.80%	1.25%	2.19%	1.7543	0.01916	3.87%
122.02	2	0															
122.05	3	3	1.2713	0.02686	1.2713	0.02686	0.01551	2.11%	0.02411	0.01674	0.02936	1.90%	1.32%	2.31%	1.7533	0.01667	3.86%
124.00	16	15	0.26562	0.01235	0.26656	0.01389	0.00245	5.21%	0.01158	0.00607	0.01307	4.36%	2.28%	4.92%	2.1542	0.00806	4.88%
124.01	1		0.32500														
124.02	3	3	0.30167	0.02036	0.30167	0.02036	0.01176	6.75%	0.02010	0.00458	0.02062	6.66%	1.52%	6.83%	4.4991	0.00533	4.79%
124.05	2	0															
125.00	16	16	2.7684	0.05405	2.7619	0.04723	0.00835	1.71%	0.04759	0.03624	0.05982	1.72%	1.31%	2.16%	1.6507	0.03858	3.43%
125.01	1		2.8300														
125.02	2	0															
125.05	3	3	2.7405	0.06466	2.7405	0.06466	0.03733	2.36%	0.06290	0.02119	0.06637	2.30%	0.77%	2.42%	3.1328	0.02300	3.44%
126.00	16	16	0.67508	0.01348	0.67585	0.01351	0.00239	2.00%	0.01184	0.00912	0.01494	1.75%	1.35%	2.21%	1.6385	0.00968	4.24%
126.01	1		0.70000														
126.02	2	0															
126.05	3	3	0.68917	0.00530	0.68917	0.00530	0.00306	0.77%		0.01129			1.64%			0.01367	4.23%
127.00	16	15	0.38779	0.01283	0.38613	0.01075	0.00196	2.78%	0.01207	0.00615	0.01354	3.11%	1.58%	3.49%	2.2035	0.00757	4.62%
127.02	2	0															
127.05	3	3	0.39417	0.00965	0.39417	0.00965	0.00557	2.45%	0.00862	0.00612	0.01058	2.19%	1.55%	2.68%	1.7269	0.00767	4.60%
128.00	16	14	0.51565	0.02894	0.51445	0.02279	0.00403	4.43%	0.02811	0.00968	0.02974	5.45%	1.88%	5.77%	3.0704	0.01154	4.42%
128.01	1		0.48500														
128.02	2	0															
128.05	3	3	0.53067	0.01257	0.53067	0.01257	0.00726	2.37%	0.00675	0.01500	0.01645	1.27%	2.83%	3.10%	1.0966	0.01800	4.40%
129.00	16	16	1.1358	0.02471	1.1374	0.02419	0.00428	2.13%	0.02353	0.01066	0.02583	2.07%	0.94%	2.27%	2.4234	0.01283	3.92%
129.01	1		1.0700														
129.02	2	0															
129.05	3	3	1.1447	0.02986	1.1447	0.02986	0.01724	2.61%	0.01114	0.03918	0.04073	0.97%	3.42%	3.56%	1.0396	0.05267	3.92%
130.00	17	14	0.57327	0.01203	0.57350	0.01531	0.00271	2.67%	0.00913	0.01108	0.01436	1.59%	1.93%	2.51%	1.2956	0.01280	4.35%
130.02	2	0															
130.05	5	4	0.59663	0.02161	0.59663	0.02161	0.01080	3.62%	0.01818	0.01651	0.02456	3.05%	2.77%	4.12%	1.4875	0.01580	4.32%
131.00	17	16	0.21917	0.01390	0.21645	0.01204	0.00206	5.56%	0.01307	0.00671	0.01469	5.96%	3.06%	6.70%	2.1883	0.00794	5.04%
131.01	1		0.26000														
131.02	3	3	0.21450	0.00427	0.21450	0.00427	0.00247	1.99%	0.00235	0.00505	0.00557	1.09%	2.35%	2.60%	1.1026	0.00500	5.04%
131.05	3	2	0.22000	0.00000	0.22000	0.00000	0.00000	0.00%	0.00000	0.00000	0.00000	0.00%	0.00%	0.00%		0.00500	5.02%
132.00	16	15	0.67777	0.03163	0.68031	0.02997	0.00547	4.41%	0.03083	0.00995	0.03240	4.55%	1.47%	4.78%	3.2565	0.01029	4.24%
132.02	2	0															
132.05	3	3	0.69450	0.02324	0.69450	0.02324	0.01342	3.35%	0.02158	0.01220	0.02479	3.11%	1.76%	3.57%	2.0322	0.01500	4.23%
133.00	15	14	0.92838	0.02526	0.93230	0.01758	0.00332	1.89%	0.02279	0.01543	0.02752	2.45%	1.66%	2.96%	1.7835	0.01574	4.04%
133.05	3	2	1.0035	0.00919	1.0035	0.00919	0.00650	0.92%	0.00908	0.00200	0.00930	0.91%	0.20%	0.93%	4.6503	0.01233	4.00%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
133.99	1		1.0500														
134.00	16	15	0.68158	0.02236	0.68179	0.01859	0.00329	2.73%	0.01898	0.01671	0.02529	2.78%	2.45%	3.71%	1.5133	0.01937	4.24%
134.01	1		0.73500														
134.02	2	0															
134.05	3	3	0.68533	0.01314	0.68533	0.01314	0.00758	1.92%	0.01218	0.00695	0.01403	1.78%	1.01%	2.05%	2.0176	0.00800	4.23%
135.00	16	16	0.52502	0.01367	0.52502	0.01347	0.00238	2.57%	0.01071	0.01201	0.01609	2.04%	2.29%	3.06%	1.3397	0.01268	4.41%
135.01	1		0.52500														
135.02	2	0															
135.05	3	3	0.52517	0.00419	0.52517	0.00419	0.00242	0.80%		0.00873			1.66%			0.00833	4.41%
136.00	6	6	0.18461	0.03444	0.19066	0.02475	0.00714	12.98%	0.03404	0.00741	0.03483	18.44%	4.02%	18.87%	4.6984	0.00835	5.13%
136.01	4	4	0.18875	0.00811	0.18875	0.00811	0.00405	4.30%	0.00805	0.00132	0.00816	4.27%	0.70%	4.32%	6.1702	0.00150	5.14%
136.02	2	0															
136.03	2	0															
136.99	1		0.16500														
137.00	12	11	0.43373	0.06031	0.43470	0.05177	0.01057	11.91%	0.05913	0.01680	0.06147	13.63%	3.87%	14.17%	3.6597	0.02028	4.53%
137.02	2	0															
137.05	3	3	0.47567	0.03502	0.47567	0.03502	0.02022	7.36%	0.03267	0.01783	0.03722	6.87%	3.75%	7.82%	2.0872	0.02467	4.47%
138.00	16	15	0.68499	0.03634	0.69229	0.02437	0.00431	3.52%	0.03434	0.01679	0.03823	5.01%	2.45%	5.58%	2.2771	0.02239	4.23%
138.01	1		0.73500														
138.02	2	0															
138.05	3	3	0.74400	0.01191	0.74400	0.01191	0.00687	1.60%	0.00898	0.01106	0.01424	1.21%	1.49%	1.91%	1.2879	0.01267	4.18%
139.00	1		0.12950														
139.02	1		0.00000														
160.99	6	6	0.89100	0.24447	0.89100	0.27723	0.08003	31.11%	0.23809	0.07842	0.25068	26.72%	8.80%	28.13%	3.1965	0.07333	4.07%
162.99	6	6	0.79583	0.33241	0.79583	0.37695	0.10882	47.37%	0.32937	0.06344	0.33542	41.39%	7.97%	42.15%	5.2870	0.06167	4.14%
163.99	2																
164.99	1		0.00000														
165.99	6	6	2.0083	0.34759	2.0100	0.28279	0.08164	14.07%	0.34684	0.03215	0.34833	17.27%	1.60%	17.34%	10.836	0.03333	3.60%
166.99	1		0.47100														
167.99	1		0.88100														
365.04	1		2,350.0														
365.05	3	3	1,271.7	399.76	1,271.7	399.76	230.80	31.44%	397.62	58.452	401.89	31.27%	4.60%	31.60%	6.8755	56.667	15.43%
400.01	3	3	0.57622	0.00445	0.57622	0.00445	0.00257	0.77%	0.00278	0.00492	0.00565	0.48%	0.85%	0.98%	1.1483	0.00650	
400.99	1		0.59500														
516.00	1		0.32800														
516.52	2	0															
516.53	4	4	0.38115	0.06361	0.38115	0.06361	0.03180	16.69%	0.03404	0.07599	0.08326	8.93%	19.94%	21.85%	1.0957	0.07175	18.50%
518.41	2	0															
518.43	1		0.16000														
518.52	2	0															
518.53	4	4	0.16054	0.01069	0.16054	0.01069	0.00534	6.66%	0.01050	0.00278	0.01086	6.54%	1.73%	6.77%	3.9147	0.00278	21.07%
520.41	1		4.1013														
520.43	1		5.2350														

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
520.52	2	0															
520.53	3	3	4.4084	0.98551	4.4084	0.98551	0.56898	22.36%	0.91434	0.52001	1.0519	20.74%	11.80%	23.86%	2.0228	0.55590	12.80%
520.99	1		4.1280														
526.31	1		0.69500														
526.43	1		0.00000														
526.52	2	0															
526.53	4	4	0.22435	0.01374	0.22435	0.01374	0.00687	6.12%	0.00966	0.01381	0.01686	4.31%	6.16%	7.51%	1.2204	0.01395	20.03%
529.00	1		100.00														
529.99	2																
539.41	1		2.8695														
539.52	2	0															
539.53	2	0															
600.01	1		3.6400														
600.13	1		2.0085														
600.20	1		0.00000														
600.98	1		11.950														
710.99	1		0.00400														
718.99	1		0.00700														
726.99	1		2.2205														
728.99	1		0.11850														
736.99	1		0.00100														
740.99	1		0.00000														
746.99	1		0.00100														
750.99	1		0.00000														
754.99	1		0.12000														
756.99	1		2.2200														