

AAFCO Check Sample Program
Method Performance & Summary Report



AAFCO
Check Sample Program



Sample # 201624
Goat Feed
Regular Program

Labs Reporting: 208
Issue Date : 05/31/2016

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	7	7.5756	0.31074	7.5511	0.33553	0.11863	4.44%	0.31028	0.02392	0.31120	4.10%	0.32%	4.11%	13.012	0.11359	2.95%
001.03	4	4	7.7225	0.08568	7.7225	0.08568	0.04284	1.11%	0.08517	0.01323	0.08619	1.10%	0.17%	1.12%	6.5155	0.01500	2.94%
001.05	1		7.5750														
001.07	41	34	7.6411	0.13705	7.6582	0.16862	0.02700	2.20%	0.12562	0.07749	0.14760	1.64%	1.01%	1.93%	1.9048	0.10014	2.94%
001.08	2	0															
001.99	20	19	7.4846	0.46337	7.4967	0.41044	0.09178	5.47%	0.46188	0.05244	0.46485	6.17%	0.70%	6.21%	8.8652	0.06244	2.95%
002.00	6	5	18.838	0.19286	18.944	0.35386	0.14446	1.87%	0.18082	0.09487	0.20419	0.96%	0.50%	1.08%	2.1524	0.10667	2.30%
002.01	18	16	19.061	0.32771	19.026	0.31640	0.07458	1.66%	0.32570	0.05119	0.32970	1.71%	0.27%	1.73%	6.4406	0.06149	2.29%
002.02	3	3	19.017	0.23205	19.017	0.23205	0.13397	1.22%	0.22278	0.09184	0.24097	1.17%	0.48%	1.27%	2.6237	0.12767	2.29%
002.04	6	6	18.893	0.45210	18.893	0.51269	0.20930	2.71%	0.43277	0.18495	0.47064	2.29%	0.98%	2.49%	2.5446	0.20833	2.30%
002.05	31	29	19.010	0.22574	19.025	0.23869	0.04287	1.25%	0.21477	0.09832	0.23620	1.13%	0.52%	1.24%	2.4023	0.12226	2.29%
002.06	129	119	19.384	0.23945	19.382	0.24594	0.02200	1.27%	0.22063	0.13161	0.25690	1.14%	0.68%	1.33%	1.9520	0.14952	2.27%
002.08	3	3	19.144	0.13738	19.144	0.13738	0.07932	0.72%		0.21396			1.12%		0.24450	2.29%	
002.10	1		19.210														
002.11	10	9	19.899	1.2483	19.974	1.2390	0.41299	6.20%	1.2466	0.09214	1.2500	6.26%	0.46%	6.28%	13.567	0.11111	2.24%
002.99	4	4	19.001	0.65116	19.001	0.65116	0.32558	3.43%	0.65002	0.05443	0.65229	3.42%	0.29%	3.43%	11.984	0.06750	2.29%
003.00	19	16	3.7574	0.13358	3.7243	0.16502	0.03890	4.43%	0.13070	0.03899	0.13640	3.48%	1.04%	3.63%	3.4979	0.04935	3.28%
003.01	2	0															
003.06	19	17	3.5774	0.20914	3.5964	0.20066	0.04730	5.58%	0.20274	0.07259	0.21535	5.67%	2.03%	6.02%	2.9666	0.08375	3.30%
003.09	19	16	3.6318	0.12873	3.6370	0.12316	0.02987	3.39%	0.12625	0.03556	0.13116	3.48%	0.98%	3.61%	3.6883	0.04178	3.29%
003.10	33	30	3.4632	0.17129	3.4641	0.19364	0.03371	5.59%	0.16274	0.07559	0.17944	4.70%	2.18%	5.18%	2.3738	0.08485	3.32%
003.11	10	8	3.4813	0.21071	3.5357	0.29022	0.09674	8.21%	0.20907	0.03708	0.21233	6.01%	1.07%	6.10%	5.7262	0.04667	3.31%
003.12	3	3	3.6950	0.72324	3.6950	0.72324	0.41756	19.57%	0.72298	0.02739	0.72350	19.57%	0.74%	19.58%	26.418	0.03000	3.29%
003.13	11	11	3.6600	0.40661	3.6337	0.39800	0.12000	10.95%	0.39435	0.14014	0.41851	10.77%	3.83%	11.43%	2.9864	0.15745	3.29%
003.14	41	37	3.5678	0.20539	3.5554	0.23246	0.03675	6.54%	0.19253	0.10114	0.21748	5.40%	2.83%	6.10%	2.1503	0.12043	3.30%
003.99	5	4	3.3463	0.53655	3.3463	0.53655	0.26828	16.03%	0.53048	0.11385	0.54256	15.85%	3.40%	16.21%	4.7654	0.15400	3.33%
004.00	22	20	15.021	1.1266	15.016	1.0797	0.23020	7.19%	1.1079	0.28924	1.1450	7.38%	1.93%	7.62%	3.9587	0.39910	2.58%
004.01	2	0															
004.03	4	4	14.028	2.9146	14.028	2.9146	1.4573	20.78%	2.9132	0.12913	2.9160	20.77%	0.92%	20.79%	22.582	0.15500	2.67%
004.06	23	21	14.899	0.62217	14.968	0.54889	0.11445	3.67%	0.60688	0.19385	0.63709	4.07%	1.30%	4.28%	3.2866	0.20560	2.58%
004.07	65	60	14.600	0.90839	14.629	0.92744	0.11685	6.34%	0.89402	0.22760	0.92253	6.12%	1.56%	6.32%	4.0533	0.26430	2.61%

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004.11	9	8	12.448	2.1439	12.519	2.2873	0.76242	18.27%	2.1402	0.17819	2.1476	17.19%	1.43%	17.25%	12.052	0.27222	2.73%
004.99	3	3	14.157	0.64663	14.157	0.64663	0.37333	4.57%	0.62955	0.20881	0.66327	4.45%	1.47%	4.69%	3.1765	0.21333	2.66%
005.00	99	91	7.7244	0.18659	7.7237	0.19668	0.01997	2.55%	0.18285	0.05254	0.19025	2.37%	0.68%	2.46%	3.6208	0.06699	2.94%
005.05	24	21	7.9605	0.16079	7.9519	0.13995	0.02918	1.76%	0.15923	0.03167	0.16235	2.00%	0.40%	2.04%	5.1255	0.03844	2.93%
005.11	8	8	8.5125	3.3574	8.5125	3.8073	1.3461	44.73%	3.3514	0.28564	3.3635	39.37%	3.36%	39.51%	11.776	0.29250	2.90%
005.99	12	11	7.9306	0.24687	7.9390	0.26082	0.07864	3.29%	0.24516	0.04103	0.24857	3.09%	0.52%	3.13%	6.0581	0.04783	2.93%
006.00	1		3.4700														
006.01	2	0															
006.05	1		5.4100														
006.99	3	3	4.3133	1.5414	4.3133	1.5414	0.88992	35.74%	1.5009	0.49615	1.5808	34.80%	11.50%	36.65%	3.1861	0.47333	3.21%
008.02	15	13	20.081	0.85143	20.150	0.75332	0.20133	3.74%	0.83556	0.23137	0.86700	4.16%	1.15%	4.32%	3.7473	0.25141	2.23%
008.05	1		19.650														
008.08	43	40	19.115	1.2281	19.065	1.3989	0.21586	7.34%	1.2000	0.36974	1.2556	6.28%	1.93%	6.57%	3.3960	0.39406	2.29%
008.99	6	5	19.561	0.41956	19.330	0.76981	0.31428	3.98%	0.37122	0.27650	0.46288	1.90%	1.41%	2.37%	1.6741	0.26500	2.27%
009.04	1		35.960														
009.07	7	6	34.786	1.1557	35.238	1.8090	0.68375	5.13%	1.1285	0.35263	1.1823	3.24%	1.01%	3.40%	3.3529	0.35096	1.68%
009.09	36	34	33.221	1.8941	33.297	2.0475	0.34609	6.15%	1.8721	0.40681	1.9158	5.64%	1.22%	5.77%	4.7094	0.47672	1.73%
009.99	5	4	32.635	4.8363	32.635	4.8363	2.4181	14.82%	4.8358	0.09152	4.8367	14.82%	0.28%	14.82%	52.851	0.60800	1.75%
010.03	3	3	7.6333	0.00764	7.6333	0.00764	0.00441	0.10%		0.11619			1.52%		0.14000	2.95%	
010.11	7	6	7.6458	0.39275	7.7995	0.61476	0.23236	7.88%	0.39027	0.06238	0.39522	5.10%	0.82%	5.17%	6.3354	0.07429	2.94%
010.99	23	21	7.6124	0.37109	7.6282	0.36683	0.07649	4.81%	0.36310	0.10830	0.37891	4.77%	1.42%	4.98%	3.4985	0.12675	2.95%
011.01	76	71	8.3376	0.30975	8.3445	0.28899	0.03337	3.46%	0.30441	0.08094	0.31499	3.65%	0.97%	3.78%	3.8918	0.09457	2.91%
011.02	2	0															
011.03	1		7.2800														
011.99	4	3	8.1417	0.01443	8.1417	0.01443	0.00833	0.18%		0.10528			1.29%		0.11750	2.92%	
012.00	8	7	16.403	0.42182	16.425	0.44819	0.15846	2.73%	0.41959	0.06124	0.42403	2.56%	0.37%	2.59%	6.9244	0.08000	2.47%
012.01	8	7	14.301	0.62086	14.109	0.89739	0.31727	6.36%	0.56786	0.35499	0.66969	3.97%	2.48%	4.68%	1.8865	0.49600	2.66%
012.02	1		17.925														
012.03	4	4	14.740	0.61364	14.740	0.61364	0.30682	4.16%	0.56165	0.34957	0.66155	3.81%	2.37%	4.49%	1.8925	0.41175	2.60%
012.04	5	5	14.318	0.66425	14.318	0.66425	0.29706	4.64%	0.65498	0.15640	0.67340	4.57%	1.09%	4.70%	4.3057	0.19600	2.64%
012.11	6	6	17.213	3.8777	17.213	4.3973	1.7952	25.55%	3.8723	0.28797	3.8830	22.50%	1.67%	22.56%	13.484	0.32167	2.41%
013.00	19	18	4.4091	0.37196	4.4060	0.34357	0.07882	7.80%	0.35971	0.13387	0.38382	8.16%	3.04%	8.71%	2.8671	0.13231	3.20%
013.02	18	18	4.7081	0.42917	4.7108	0.48092	0.11335	10.21%	0.40402	0.20472	0.45292	8.58%	4.35%	9.62%	2.2124	0.22722	3.17%
013.08	1		3.3150														
013.10	7	7	4.2328	0.62319	4.2123	0.65932	0.24920	15.65%	0.61758	0.11798	0.62875	14.59%	2.79%	14.85%	5.3291	0.12450	3.22%
013.13	5	5	5.2536	1.3020	5.2536	1.3020	0.58227	24.78%	1.2699	0.40636	1.3333	24.17%	7.73%	25.38%	3.2812	0.46880	3.12%
015.41	4	3	78.915	7.7067	78.915	7.7067	4.4495	9.77%	7.6101	1.7201	7.8021	9.64%	2.18%	9.89%	4.5358	4.9930	8.29%
015.42	1		80.250														
015.43	6	5	71.955	14.624	71.955	14.624	6.5399	20.32%	14.572	1.7455	14.676	20.25%	2.43%	20.40%	8.4076	1.9460	8.41%
015.53	1		97.400														
017.41	4	3	13.165	1.6706	13.165	1.6706	0.96452	12.69%	1.6657	0.18023	1.6755	12.65%	1.37%	12.73%	9.2962	0.65500	10.85%
017.42	5	5	12.650	1.6343	12.650	1.6343	0.73090	12.92%	1.3828	1.2321	1.8520	10.93%	9.74%	14.64%	1.5032	1.0840	10.92%
017.43	7	6	13.066	6.6667	12.573	5.3671	2.0286	42.69%	6.6597	0.43286	6.6737	50.97%	3.31%	51.08%	15.418	0.83357	10.93%

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019.00	14	13	1.1158	0.05784	1.1130	0.05322	0.01476	4.78%	0.05636	0.01838	0.05928	5.05%	1.65%	5.31%	3.2252	0.01955	3.94%
019.02	1		1.1250														
019.03	1		1.1983														
019.08	9	9	1.1730	0.05898	1.1730	0.06689	0.02230	5.70%	0.05192	0.03959	0.06529	4.43%	3.38%	5.57%	1.6490	0.03879	3.90%
019.09	2	0															
019.31	28	24	1.1340	0.06108	1.1298	0.06649	0.01304	5.88%	0.06000	0.01613	0.06213	5.29%	1.42%	5.48%	3.8522	0.01922	3.93%
019.32	5	5	1.1528	0.04209	1.1528	0.04209	0.01882	3.65%	0.04066	0.01541	0.04348	3.53%	1.34%	3.77%	2.8208	0.01680	3.92%
019.33	1		1.1950														
019.41	33	30	1.1484	0.05522	1.1483	0.05947	0.01051	5.18%	0.05383	0.01737	0.05657	4.69%	1.51%	4.93%	3.2565	0.01956	3.92%
019.42	25	23	1.1480	0.07957	1.1453	0.08111	0.01622	7.08%	0.07790	0.02295	0.08121	6.79%	2.00%	7.07%	3.5391	0.03192	3.92%
019.43	20	19	1.1536	0.05196	1.1556	0.05575	0.01247	4.82%	0.04840	0.02674	0.05529	4.20%	2.32%	4.79%	2.0680	0.02877	3.91%
019.44	3	3	1.1458	0.05876	1.1458	0.05876	0.03392	5.13%	0.05868	0.00421	0.05883	5.12%	0.37%	5.13%	13.980	0.00417	3.92%
019.52	2	0															
019.53	4	4	1.1921	0.06801	1.1921	0.06801	0.03400	5.70%	0.05231	0.06145	0.08070	4.39%	5.15%	6.77%	1.3133	0.07175	3.90%
019.99	5	4	1.0500	0.11372	1.0500	0.11372	0.05686	10.83%	0.11361	0.00707	0.11383	10.82%	0.67%	10.84%	16.099	0.01400	3.97%
021.31	4	4	3.6438	0.32648	3.6438	0.32648	0.16324	8.96%	0.31596	0.11624	0.33667	8.67%	3.19%	9.24%	2.8962	0.15250	13.17%
021.34	1		3.6000														
021.41	3	3	2.8843	0.56429	2.8843	0.56429	0.32579	19.56%	0.56026	0.09521	0.56829	19.42%	3.30%	19.70%	5.9689	0.10900	13.64%
021.42	4	4	2.8395	0.66420	2.8395	0.66420	0.33210	23.39%	0.61609	0.35098	0.70905	21.70%	12.36%	24.97%	2.0202	0.39650	13.67%
021.43	6	6	3.6794	0.46799	3.6794	0.53070	0.21666	14.42%	0.46388	0.08749	0.47206	12.61%	2.38%	12.83%	5.3954	0.11497	13.15%
021.52	2	0															
021.53	5	5	3.0814	0.60455	3.0814	0.60455	0.27036	19.62%	0.57264	0.27408	0.63485	18.58%	8.89%	20.60%	2.3163	0.33590	13.50%
022.31	15	15	34.084	2.0013	34.199	1.9897	0.51373	5.82%	1.8781	0.97779	2.1174	5.51%	2.87%	6.21%	2.1655	1.0967	9.40%
022.32	5	4	40.338	6.3580	40.338	6.3580	3.1790	15.76%	6.3286	0.86313	6.3872	15.69%	2.14%	15.83%	7.4000	2.2800	9.17%
022.33	2	0															
022.41	24	21	33.154	2.5127	32.929	2.9829	0.60888	9.06%	2.4339	0.88256	2.5890	7.34%	2.66%	7.81%	2.9335	1.1682	9.45%
022.42	23	21	35.609	1.9378	35.610	2.1174	0.44151	5.95%	1.6472	1.4434	2.1902	4.63%	4.05%	6.15%	1.5173	1.6365	9.34%
022.43	16	14	35.451	2.0935	35.363	2.1318	0.55042	6.03%	2.0708	0.43454	2.1159	5.84%	1.23%	5.97%	4.8693	0.57100	9.35%
022.44	1		32.150														
022.52	3	3	33.860	5.0997	33.860	5.0997	2.9443	15.06%	5.0901	0.44091	5.1092	15.03%	1.30%	15.09%	11.588	0.49333	9.41%
022.53	4	4	36.163	2.5431	36.163	2.5431	1.2715	7.03%	1.4126	2.9906	3.3074	3.91%	8.27%	9.15%	1.1059	2.9750	9.32%
022.99	2	0															
024.52	1		1.4900														
025.31	12	9	242.47	17.120	240.08	19.157	5.7759	7.98%	16.929	3.6074	17.309	6.98%	1.49%	7.14%	4.7983	5.0027	7.01%
025.32	3	3	301.68	89.692	301.68	89.692	51.784	29.73%	89.608	5.4914	89.776	29.70%	1.82%	29.76%	16.349	7.3000	6.77%
025.33	1		303.32														
025.41	21	20	245.73	14.328	246.42	14.158	3.1659	5.75%	13.745	5.7189	14.887	5.59%	2.33%	6.06%	2.6032	6.3488	6.98%
025.42	18	15	229.00	41.560	226.90	39.360	9.2774	17.35%	41.353	5.8666	41.767	18.06%	2.56%	18.24%	7.1194	8.8367	7.07%
025.43	17	16	241.20	22.225	243.54	26.513	6.4304	10.89%	21.260	9.1595	23.149	8.81%	3.80%	9.60%	2.5274	10.644	7.00%
025.52	2	0															
025.53	3	3	216.02	60.687	216.02	60.687	35.037	28.09%	59.813	14.514	61.548	27.69%	6.72%	28.49%	4.2407	16.900	7.12%
025.99	2	0															
027.31	16	14	0.33172	0.01515	0.33303	0.01515	0.00391	4.55%	0.01499	0.00315	0.01532	4.52%	0.95%	4.62%	4.8592	0.00365	4.72%

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027.32	4	4	0.34400	0.01098	0.34400	0.01098	0.00549	3.19%	0.01051	0.00453	0.01144	3.05%	1.32%	3.33%	2.5271	0.00450	4.70%
027.33	1		0.34700														
027.41	25	23	0.34448	0.01303	0.34550	0.01384	0.00282	4.00%	0.01169	0.00812	0.01423	3.39%	2.36%	4.13%	1.7528	0.00816	4.69%
027.42	21	21	0.34809	0.01977	0.34789	0.01855	0.00405	5.33%	0.01909	0.00726	0.02042	5.48%	2.09%	5.87%	2.8141	0.00734	4.69%
027.43	17	16	0.33677	0.01846	0.33846	0.02132	0.00517	6.30%	0.01799	0.00582	0.01891	5.34%	1.73%	5.62%	3.2521	0.00695	4.71%
027.44	2	0															
027.52	1		0.35120														
027.53	3	0														0.00350	
027.99	3	0														0.00000	
028.31	12	12	148.51	7.1302	148.66	7.5776	2.1875	5.10%	6.9413	2.3054	7.3142	4.67%	1.55%	4.93%	3.1727	2.5850	7.54%
028.32	5	3	166.50	7.9627	166.50	7.9627	4.5973	4.78%	7.9003	1.4077	8.0247	4.75%	0.85%	4.82%	5.7005	3.1400	7.41%
028.33	1		13.213														
028.41	20	18	147.22	6.6842	147.72	7.2903	1.6725	4.94%	5.7775	4.7537	7.4818	3.92%	3.23%	5.08%	1.5739	4.7429	7.54%
028.42	21	20	149.22	9.6328	149.38	9.2608	2.0209	6.20%	8.9134	5.1656	10.302	5.97%	3.46%	6.90%	1.9943	5.5710	7.53%
028.43	17	15	151.21	7.7982	151.70	8.8268	2.2067	5.82%	7.5712	2.6413	8.0187	5.01%	1.75%	5.30%	3.0359	3.6544	7.51%
028.44	1		151.00														
028.52	1		150.00														
028.53	3	3	154.60	10.016	154.60	10.016	5.7830	6.48%	9.2060	5.5821	10.766	5.95%	3.61%	6.96%	1.9287	7.4667	7.49%
028.99	2	0															
031.01	52	48	0.69769	0.03034	0.69499	0.02925	0.00414	4.21%	0.02955	0.00975	0.03111	4.24%	1.40%	4.46%	3.1916	0.01097	4.22%
031.02	3	3	0.70187	0.00758	0.70187	0.00758	0.00438	1.08%	0.00679	0.00476	0.00829	0.97%	0.68%	1.18%	1.7420	0.00533	4.22%
031.03	5	5	0.68439	0.03374	0.68439	0.03374	0.01509	4.93%	0.03351	0.00557	0.03397	4.90%	0.81%	4.96%	6.0963	0.00602	4.23%
031.06	1		0.72500														
031.41	32	28	0.70844	0.02834	0.71232	0.02777	0.00499	3.90%	0.02700	0.01218	0.02962	3.81%	1.72%	4.18%	2.4311	0.01591	4.21%
031.42	25	24	0.68953	0.03895	0.68930	0.03935	0.00787	5.71%	0.03741	0.01534	0.04043	5.43%	2.22%	5.86%	2.6362	0.01631	4.23%
031.43	19	18	0.71614	0.02852	0.71958	0.03286	0.00754	4.57%	0.02658	0.01461	0.03033	3.71%	2.04%	4.23%	2.0764	0.01488	4.20%
031.44	2	0															
031.52	1		0.69930														
031.53	4	3	0.74317	0.01255	0.74317	0.01255	0.00725	1.69%	0.00704	0.01470	0.01630	0.95%	1.98%	2.19%	1.1086	0.03375	4.18%
031.99	5	5	0.66700	0.04237	0.66700	0.04237	0.01895	6.35%	0.04183	0.00949	0.04290	6.27%	1.42%	6.43%	4.5216	0.01000	4.25%
032.02	2	0															
032.31	19	19	1.4391	0.08765	1.4351	0.08154	0.01871	5.68%	0.08711	0.01381	0.08820	6.05%	0.96%	6.13%	6.3857	0.01424	3.79%
032.32	4	3	1.5000	0.00866	1.5000	0.00866	0.00500	0.58%		0.05323			3.55%			0.04750	3.76%
032.41	29	26	1.4292	0.06789	1.4321	0.07805	0.01475	5.45%	0.06559	0.02479	0.07012	4.59%	1.73%	4.91%	2.8286	0.03010	3.79%
032.42	24	21	1.4825	0.06670	1.4713	0.07794	0.01591	5.30%	0.06008	0.04098	0.07272	4.05%	2.76%	4.91%	1.7747	0.04625	3.77%
032.43	16	13	1.4493	0.03409	1.4586	0.04325	0.01117	2.97%	0.03071	0.02093	0.03716	2.12%	1.44%	2.56%	1.7761	0.02711	3.78%
032.44	2	0															
032.52	1		1.5263														
032.53	3	3	1.5467	0.05058	1.5467	0.05058	0.02920	3.27%	0.04555	0.03109	0.05515	2.95%	2.01%	3.57%	1.7739	0.03333	3.75%
032.99	4	4	1.4251	0.02967	1.4251	0.02967	0.01483	2.08%	0.02843	0.01198	0.03085	1.99%	0.84%	2.16%	2.5744	0.01425	3.79%
033.00	18	18	1.1247	0.18167	1.1480	0.13280	0.03130	11.57%	0.18073	0.02613	0.18261	16.07%	2.32%	16.24%	6.9890	0.02534	3.92%
033.01	33	31	1.2181	0.03893	1.2152	0.02974	0.00526	2.45%	0.03816	0.01095	0.03970	3.13%	0.90%	3.26%	3.6250	0.01123	3.88%
033.03	5	5	0.91400	0.12764	0.91400	0.12764	0.05708	13.97%	0.12697	0.01844	0.12831	13.89%	2.02%	14.04%	6.9584	0.01600	4.05%

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
033.05	4	3	1.2200	0.04000	1.2200	0.04000	0.02309	3.28%	0.03958	0.00816	0.04041	3.24%	0.67%	3.31%	4.9497	0.02250	3.88%
033.99	7	7	1.1377	0.21990	1.1221	0.21215	0.08019	18.91%	0.21863	0.03342	0.22117	19.22%	2.94%	19.44%	6.6178	0.03934	3.93%
034.01	2	0															
034.04	7	7	1.0314	0.16948	1.0452	0.15932	0.06022	15.24%	0.16687	0.04192	0.17205	16.18%	4.06%	16.68%	4.1044	0.05143	15.89%
034.41	1		0.95750														
034.42	1		2.1000														
034.43	1		0.93500														
034.52	4	4	1.2950	0.16447	1.2950	0.16447	0.08223	12.70%	0.15807	0.06423	0.17062	12.21%	4.96%	13.18%	2.6566	0.07000	15.39%
034.53	6	5	1.4115	0.23361	1.5401	0.42864	0.17499	27.83%		0.35638			25.25%		0.52742	14.99%	
034.99	3	2	1.1525	0.00354	1.1525	0.00354	0.00250	0.31%		0.05025			4.36%		0.04333	15.66%	
035.01	4	4	0.34750	0.02173	0.34750	0.02173	0.01086	6.25%	0.02163	0.00287	0.02182	6.23%	0.83%	6.28%	7.5982	0.00300	4.69%
035.05	3	2	0.35000	0.04243	0.35000	0.04243	0.03000	12.12%	0.04243	0.00000	0.04243	12.12%	0.00%	12.12%		0.00200	4.68%
035.31	17	16	0.34607	0.01773	0.34381	0.02095	0.00508	6.09%	0.01711	0.00659	0.01833	4.94%	1.90%	5.30%	2.7819	0.00695	4.70%
035.32	3	3	0.31500	0.04359	0.31500	0.04359	0.02517	13.84%	0.04330	0.00707	0.04387	13.75%	2.24%	13.93%	6.2048	0.01000	4.76%
035.41	30	28	0.34793	0.01428	0.34674	0.01516	0.00282	4.37%	0.01206	0.01082	0.01620	3.47%	3.11%	4.66%	1.4973	0.01052	4.69%
035.42	19	19	0.34657	0.02262	0.34937	0.01887	0.00433	5.40%	0.02129	0.01081	0.02387	6.14%	3.12%	6.89%	2.2090	0.01231	4.69%
035.43	16	15	0.33428	0.02286	0.33640	0.02456	0.00614	7.30%	0.02184	0.00953	0.02383	6.53%	2.85%	7.13%	2.5009	0.01336	4.71%
035.51	1		0.34500														
035.52	2	0															
035.53	3	3	0.35033	0.04508	0.35033	0.04508	0.02603	12.87%	0.04478	0.00730	0.04538	12.78%	2.08%	12.95%	6.2134	0.00800	4.68%
035.99	4	3	0.31667	0.02887	0.31667	0.02887	0.01667	9.12%	0.02887	0.00000	0.02887	9.12%	0.00%	9.12%		0.01750	4.76%
036.04	4	4	0.30686	0.02214	0.30686	0.02214	0.01107	7.21%	0.02150	0.00747	0.02276	7.01%	2.43%	7.42%	3.0464	0.00893	4.78%
036.42	22	21	0.30798	0.01923	0.30719	0.02124	0.00453	6.91%	0.01815	0.00902	0.02026	5.89%	2.93%	6.58%	2.2474	0.01009	4.78%
036.43	12	11	0.30944	0.02546	0.31438	0.03053	0.00881	9.71%	0.02486	0.00776	0.02604	8.03%	2.51%	8.42%	3.3562	0.01033	4.76%
036.99	2	0															
037.31	16	16	231.45	12.709	231.52	13.290	3.3226	5.74%	12.500	3.2482	12.915	5.40%	1.40%	5.58%	3.9761	3.5688	7.05%
037.32	5	5	234.37	11.805	234.37	11.805	5.2793	5.04%	8.3705	11.772	14.444	3.57%	5.02%	6.16%	1.2270	13.120	7.04%
037.33	1		220.02														
037.41	24	22	229.33	18.294	229.38	16.782	3.4257	7.32%	18.000	4.6172	18.583	7.85%	2.01%	8.10%	4.0247	5.3935	7.06%
037.42	23	21	223.98	22.006	229.51	20.914	4.3609	9.11%	21.182	8.4355	22.800	9.46%	3.77%	10.18%	2.7029	11.658	7.06%
037.43	17	16	235.57	16.994	235.84	16.700	4.0504	7.08%	16.733	4.1940	17.251	7.10%	1.78%	7.32%	4.1132	5.4341	7.03%
037.44	1		224.50														
037.52	2	0															
037.53	3	3	255.97	13.950	255.97	13.950	8.0541	5.45%	12.185	9.6042	15.515	4.76%	3.75%	6.06%	1.6155	11.067	6.94%
037.99	3	3	228.00	29.013	228.00	29.013	16.751	12.72%	27.921	11.150	30.065	12.25%	4.89%	13.19%	2.6963	14.667	7.07%
038.41	3	3	1.7357	0.29010	1.7357	0.29010	0.16749	16.71%	0.28760	0.05368	0.29257	16.57%	3.09%	16.86%	5.4503	0.06767	14.72%
038.42	3	3	1.7017	0.21050	1.7017	0.21050	0.12153	12.37%	0.20265	0.08052	0.21806	11.91%	4.73%	12.81%	2.7082	0.09000	14.77%
038.43	7	7	1.8856	0.31523	1.8856	0.35747	0.13511	18.96%	0.30088	0.13300	0.32896	15.96%	7.05%	17.45%	2.4734	0.14330	14.54%
038.52	1		1.8500														
038.53	4	3	1.7352	0.50219	1.7352	0.50219	0.28994	28.94%	0.50047	0.05885	0.50391	28.84%	3.39%	29.04%	8.5627	0.18528	14.72%
040.42	1		15.020														
040.43	1		13.866														
040.52	1		16.500														

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040.53	1		14.437														
041.43	1		0.33995														
041.52	1		0.72500														
041.53	1		0.35150														
042.00	1		0.72000														
042.99	1		0.66500														
051.03	1		0.00000														
054.01	6	5	0.92920	0.05934	0.96186	0.10887	0.04445	11.32%	0.05802	0.01760	0.06063	6.24%	1.89%	6.52%	3.4455	0.03067	16.09%
054.02	2	0															
061.02	5	4	1.9513	0.79228	1.9513	0.79228	0.39614	40.60%	0.79019	0.08132	0.79436	40.50%	4.17%	40.71%	9.7687	0.22180	14.47%
073.03	4	2	3.2613	0.02510	3.2613	0.02510	0.01775	0.77%		0.80564			24.70%			0.63500	13.39%
092.99	1		0.00000														
101.00	1		0.00000														
101.01	3	3	1,077.0	309.70	1,077.0	309.70	178.80	28.76%	305.77	69.558	313.58	28.39%	6.46%	29.12%	4.5082	94.000	5.59%
101.02	2	0															
101.99	1		922.59														
102.01	1		957.00														
102.02	1		662.60														
102.99	1		306.00														
103.01	1		22.100														
103.99	1		9.0650														
104.00	2	0															
104.03	2	0															
104.99	1		0.66350														
105.00	4	4	5.3671	3.0910	5.3671	3.0910	1.5455	57.59%	3.0822	0.33019	3.0998	57.43%	6.15%	57.76%	9.3879	0.34525	12.42%
106.00	2	0															
106.01	1		36.400														
106.02	18	15	36.564	7.4359	37.436	7.2564	1.7599	19.38%	7.2955	2.0339	7.5737	19.95%	5.56%	20.71%	3.7238	2.7467	
107.99	1		29.600														
108.01	1		5.0000														
108.02	4	4	4.9875	1.3748	4.9875	1.3748	0.68741	27.57%	1.3525	0.34918	1.3968	27.12%	7.00%	28.01%	4.0003	0.42000	
108.99	2	0															
109.02	19	18	134.87	23.785	135.94	23.882	5.6290	17.57%	23.587	4.3309	23.981	17.49%	3.21%	17.78%	5.5372	4.1396	
109.99	2	0															
113.01	1		1.8150														
114.01	1		0.32750														
120.00	18	16	0.91580	0.01887	0.91352	0.02270	0.00550	2.48%	0.01825	0.00677	0.01946	1.99%	0.74%	2.13%	2.8771	0.00715	4.05%
120.01	1		0.82200														
120.02	1		0.96450														
120.05	1		1.0460														
121.00	18	16	1.2872	0.04173	1.2825	0.04554	0.01073	3.55%	0.03961	0.01854	0.04374	3.08%	1.44%	3.40%	2.3587	0.02401	3.85%
121.01	1		1.2870														
121.02	1		1.2690														

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121.05	1		1.4660														
122.00	18	17	1.6282	0.04357	1.6321	0.03605	0.00850	2.21%	0.04211	0.01579	0.04497	2.59%	0.97%	2.76%	2.8478	0.01991	3.72%
122.01	1		1.5330														
122.02	1		1.7370														
122.05	1		1.7235														
124.00	18	16	0.33706	0.02233	0.33780	0.02305	0.00559	6.82%	0.02200	0.00547	0.02267	6.53%	1.62%	6.73%	4.1442	0.00641	4.71%
124.01	1		0.31300														
124.02	1		0.35350														
124.05	1		0.32160														
125.00	18	17	3.3420	0.09612	3.3425	0.08659	0.02041	2.59%	0.09294	0.03470	0.09920	2.78%	1.04%	2.97%	2.8589	0.04619	3.34%
125.01	1		3.3150														
125.02	1		3.4025														
125.05	1		3.4905														
126.00	18	18	0.91541	0.02236	0.91805	0.01455	0.00343	1.59%	0.02051	0.01260	0.02407	2.24%	1.38%	2.63%	1.9105	0.01310	4.05%
126.01	1		0.84550														
126.02	1		0.95050														
126.05	1		1.0325														
127.00	18	18	0.49844	0.01846	0.49895	0.01976	0.00466	3.96%	0.01743	0.00860	0.01944	3.50%	1.72%	3.90%	2.2612	0.00951	4.44%
127.01	1		0.42000														
127.02	1		0.48450														
127.05	1		0.51600														
128.00	18	16	0.67383	0.03092	0.67662	0.03085	0.00748	4.56%	0.03044	0.00768	0.03139	4.52%	1.14%	4.66%	4.0885	0.01084	4.24%
128.01	1		0.68450														
128.02	1		0.67700														
128.05	1		0.74150														
129.00	18	17	1.3709	0.03071	1.3710	0.02865	0.00675	2.09%	0.02927	0.01312	0.03208	2.14%	0.96%	2.34%	2.4452	0.01730	3.81%
129.01	1		1.3300														
129.02	1		1.3920														
129.05	1		1.4445														
130.00	18	16	0.89997	0.02113	0.89730	0.02507	0.00608	2.79%	0.01851	0.01442	0.02346	2.06%	1.60%	2.61%	1.6275	0.01652	4.07%
130.01	1		0.86750														
130.02	1		0.92200														
130.05	2	0															
131.00	18	16	0.28153	0.01160	0.28237	0.01045	0.00253	3.70%	0.01022	0.00774	0.01282	3.63%	2.75%	4.55%	1.6574	0.00795	4.84%
131.01	1		0.27350														
131.02	1		0.25700														
131.05	2	0															
132.00	18	17	0.84301	0.01911	0.84301	0.02167	0.00526	2.57%	0.01783	0.00972	0.02031	2.12%	1.15%	2.41%	2.0902	0.01026	4.10%
132.01	1		0.83800														
132.02	1		0.85850														
132.05	1		0.97450														
133.00	18	16	1.0929	0.02995	1.0902	0.03414	0.00805	3.13%	0.02707	0.01813	0.03258	2.48%	1.66%	2.98%	1.7969	0.02181	3.95%
133.05	1		1.2250														

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
134.00	18	17	0.88176	0.02987	0.87861	0.03619	0.00853	4.12%	0.02868	0.01183	0.03102	3.25%	1.34%	3.52%	2.6224	0.01529	4.08%
134.01	1		0.85700														
134.02	1		0.82250														
134.05	1		1.0450														
135.00	18	16	0.66894	0.02432	0.66801	0.02287	0.00555	3.42%	0.02376	0.00735	0.02487	3.55%	1.10%	3.72%	3.3838	0.00942	4.25%
135.01	1		0.68100														
135.02	1		0.66750														
135.05	1		0.72300														
136.00	6	5	0.24036	0.02631	0.24036	0.02631	0.01177	10.95%	0.02592	0.00643	0.02670	10.78%	2.68%	11.11%	4.1503	0.00680	4.96%
136.01	3	3	0.24017	0.00690	0.24017	0.00690	0.00398	2.87%	0.00687	0.00091	0.00693	2.86%	0.38%	2.88%	7.5895	0.00100	4.96%
136.02	1		0.23850														
136.03	4	4	0.25025	0.00819	0.25025	0.00819	0.00410	3.27%	0.00723	0.00545	0.00905	2.89%	2.18%	3.62%	1.6598	0.00600	4.93%
136.99	1		0.17000														
137.00	13	11	0.59312	0.05246	0.58427	0.06230	0.01728	10.66%	0.05210	0.00867	0.05282	8.78%	1.46%	8.91%	6.0914	0.01388	4.34%
137.01	1		0.62300														
137.02	1		0.58250														
137.05	1		0.72700														
138.00	18	16	0.85087	0.03333	0.85351	0.03355	0.00814	3.93%	0.03266	0.00939	0.03399	3.84%	1.10%	3.99%	3.6182	0.01164	4.10%
138.01	1		0.88700														
138.02	1		0.90300														
138.05	1		0.98650														
139.00	2	0															
139.02	1		0.00000														
160.99	5	4	0.43523	0.35096	0.43523	0.35096	0.17548	80.64%	0.35065	0.02091	0.35127	80.57%	4.81%	80.71%	16.797	0.02355	4.53%
161.99	1		0.05705														
162.99	5	4	0.34598	0.21021	0.34598	0.21021	0.10511	60.76%	0.20357	0.07415	0.21665	58.84%	21.43%	62.62%	2.9217	0.08355	4.69%
163.99	4																
164.99	4	2	0.61800	0.49780	0.61800	0.49780	0.35200	80.55%	0.49756	0.02200	0.49805	80.51%	3.56%	80.59%	22.638	0.18133	4.30%
165.99	6	6	1.7794	0.22205	1.7794	0.25180	0.10280	14.15%	0.21900	0.05189	0.22506	12.31%	2.92%	12.65%	4.3368	0.05083	3.67%
166.99	3	3	0.74523	0.35901	0.74523	0.35901	0.20728	48.17%	0.35780	0.04167	0.36022	48.01%	5.59%	48.34%	8.6450	0.04913	4.18%
167.99	3	3	0.75488	0.35076	0.75488	0.35076	0.20251	46.47%	0.35037	0.02329	0.35115	46.41%	3.09%	46.52%	15.077	0.03130	4.17%
354.01	2	0															
354.02	1		0.66500														
354.03	1		895.00														
361.02	2	0															
361.03	1		2.4450														
361.04	4	3	2,475.0	388.30	2,475.0	388.30	224.18	15.69%	381.49	102.39	394.99	15.41%	4.14%	15.96%	3.8578	110.00	13.96%
365.05	1		605.00														
373.03	1		4,540.0														
373.04	1		3.5000														
373.05	1		1,795.0														
400.01	4	4	0.41914	0.03657	0.41914	0.03657	0.01828	8.72%	0.03488	0.01554	0.03819	8.32%	3.71%	9.11%	2.4566	0.01543	
400.99	2	0															

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
516.00	1		0.10500														
516.52	2	0															
516.53	6	6	0.11961	0.03086	0.11961	0.03500	0.01429	29.26%	0.02967	0.01201	0.03201	24.81%	10.04%	26.76%	2.6662	0.01565	22.00%
518.41	4	4	0.06400	0.02296	0.06400	0.02296	0.01148	35.88%	0.02276	0.00432	0.02317	35.56%	6.74%	36.20%	5.3678	0.00425	22.00%
518.52	2	0															
518.53	5	5	0.08849	0.00816	0.08849	0.00816	0.00365	9.22%		0.01401			15.83%			0.01526	22.00%
520.41	3	3	3.2465	0.28458	3.2465	0.28458	0.16430	8.77%	0.26624	0.14215	0.30181	8.20%	4.38%	9.30%	2.1232	0.16300	13.40%
520.43	2	0															
520.52	1		2.6500														
520.53	3	3	5.3701	1.7964	5.3701	1.7964	1.0371	33.45%	1.4809	1.4379	2.0641	27.58%	26.78%	38.44%	1.4355	1.9734	12.42%
520.99	1		4.4860														
526.31	1		0.54500														
526.41	2																
526.43	1		0.25125														
526.52	2	0															
526.53	6	6	0.14231	0.02443	0.13984	0.02174	0.00887	15.55%	0.02147	0.01650	0.02708	15.09%	11.60%	19.03%	1.6410	0.01932	21.51%
529.99	1		0.00000														
539.41	2	0															
539.43	1		4.6845														
539.52	1		2.7000														
539.53	2	0															