

# AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201028

Dry Dog Food



# AAFCO

Association of American Feed Control Officials

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
000.01	1		0.5000													
001.00	13	10	6.0935	0.3321	6.0935	0.3766	0.0842	6.18%	0.3286	0.0677	0.3355	5.39%	1.11%	5.51%	4.9525	0.0787
001.03	6	5	6.0750	0.2450	6.0750	0.2450	0.0775	4.03%	0.2433	0.0399	0.2466	4.01%	0.66%	4.06%	6.1841	0.0460
001.05	1		6.0500													
001.07	42	40	6.2473	0.9986	6.2467	0.2152	0.0241	3.45%	0.9958	0.1063	1.0014	15.94%	1.70%	16.03%	9.4215	0.1052
001.08	1		5.6300													
001.99	17	15	6.2490	0.5647	6.3402	0.3490	0.0637	5.50%	0.5589	0.1139	0.5704	8.94%	1.82%	9.13%	5.0074	0.1273
002.00	5	5	20.1610	0.1461	20.1610	0.1461	0.0462	0.72%	0.1255	0.1058	0.1641	0.62%	0.52%	0.81%	1.5515	0.1180
002.01	8	8	19.8008	0.2932	19.8520	0.1541	0.0385	0.78%	0.2898	0.0634	0.2966	1.46%	0.32%	1.50%	4.6796	0.0548
002.02	7	7	20.0767	0.2568	20.0767	0.2912	0.0778	1.45%	0.1644	0.2789	0.3238	0.82%	1.39%	1.61%	1.1607	0.2834
002.03	1		19.6100													
002.04	9	9	19.7767	0.4918	19.8641	0.3475	0.0819	1.75%	0.4834	0.1276	0.5000	2.44%	0.65%	2.53%	3.9186	0.1400
002.05	23	22	19.9782	0.6148	19.8967	0.3363	0.0507	1.69%	0.6128	0.0701	0.6168	3.07%	0.35%	3.09%	8.7997	0.0764
002.06	211	140	20.1651	0.4184	20.1764	0.3143	0.0188	1.56%	0.4024	0.1622	0.4339	2.00%	0.80%	2.15%	2.6742	0.1427
002.08	5	5	20.1157	0.4581	20.1157	0.4581	0.1449	2.28%	0.4546	0.0799	0.4615	2.26%	0.40%	2.29%	5.7757	0.0963
002.10	8	7	19.9674	0.3213	20.0260	0.1490	0.0398	0.74%	0.3156	0.0849	0.3268	1.58%	0.43%	1.64%	3.8484	0.0949
002.11	14	14	19.8055	0.6672	19.8306	0.6796	0.1284	3.43%	0.6653	0.0725	0.6692	3.36%	0.37%	3.38%	9.2338	0.0778
002.99	2	2	19.9875	0.2227												
003.00	14	13	5.6376	0.5514	5.6260	0.2356	0.0462	4.19%	0.5456	0.1131	0.5572	9.68%	2.01%	9.88%	4.9264	0.1034
003.01	2	2	5.8235	0.1181												
003.06	24	24	5.6317	0.3750	5.5915	0.1766	0.0255	3.16%	0.3729	0.0567	0.3772	6.62%	1.01%	6.70%	6.6467	0.0582
003.09	19	18	5.6367	0.1650	5.6024	0.1053	0.0176	1.88%	0.1463	0.1081	0.1819	2.60%	1.92%	3.23%	1.6829	0.1003
003.10	30	28	5.4158	0.1381	5.4196	0.1303	0.0174	2.40%	0.1247	0.0842	0.1504	2.30%	1.55%	2.78%	1.7866	0.0813
003.11	12	11	7.6644	0.8905	7.6204	0.9073	0.1934	11.91%	0.8903	0.0316	0.8908	11.62%	0.41%	11.62%	28.1932	0.0289
003.12	5	5	6.2550	0.9573	6.2550	0.9573	0.3027	15.30%	0.9566	0.0517	0.9580	15.29%	0.83%	15.32%	18.5398	0.0700
003.13	6	6	5.5340	0.1687	5.5340	0.1913	0.0552	3.46%	0.1589	0.0797	0.1778	2.87%	1.44%	3.21%	2.2301	0.1017
003.14	21	21	5.5458	0.5881	5.4514	0.2429	0.0375	4.46%	0.5865	0.0620	0.5897	10.57%	1.12%	10.63%	9.5042	0.0701

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 sF	Reproducibility sR	Between Labs %RSD	Within Labs %/sd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
003.99	14	11	6.7014	1.1508	6.5915	1.0263	0.2188	15.57%	1.1278	0.3233	1.1733	16.83%	4.82%	17.51%	3.6289	0.3555
004.00	31	30	4.7575	0.6555	4.8038	0.5539	0.0715	11.53%	0.6512	0.1067	0.6599	13.69%	2.24%	13.87%	6.1816	0.1118
004.01	2	2	5.8650	0.1626												
004.03	2	2	5.3185	0.6880												
004.06	34	34	5.1267	0.5776	5.0268	0.3899	0.0473	7.76%	0.5652	0.1682	0.5897	11.03%	3.28%	11.50%	3.5053	0.1757
004.07	50	50	4.4992	0.7436	4.4550	0.5233	0.0523	11.75%	0.7343	0.1658	0.7527	16.32%	3.69%	16.73%	4.5401	0.1666
004.11	11	10	4.7875	0.7520	4.8696	0.4366	0.0976	8.97%	0.7513	0.0475	0.7528	15.69%	0.99%	15.72%	15.8528	0.0470
004.99	3	3	4.3883	0.6255	4.3883	0.6255	0.2554	14.25%	0.6196	0.1208	0.6313	14.12%	2.75%	14.39%	5.2276	0.1633
005.00	183	119	7.2962	0.1292	7.2946	0.1120	0.0073	1.54%	0.1222	0.0592	0.1358	1.67%	0.81%	1.86%	2.2932	0.0580
005.01	1		7.0200													
005.02	1		6.9700													
005.03	1		7.2550													
005.05	15	14	7.3171	0.1776	7.3422	0.1442	0.0272	1.96%	0.1621	0.1025	0.1918	2.22%	1.40%	2.62%	1.8713	0.0733
005.11	9	8	7.8742	1.0243	8.1372	0.6653	0.1663	8.18%	1.0239	0.0417	1.0247	13.00%	0.53%	13.01%	24.5621	0.0391
005.99	10	10	7.3695	0.1995	7.3907	0.1723	0.0385	2.33%	0.1872	0.0975	0.2111	2.54%	1.32%	2.86%	2.1636	0.0990
008.02	11	11	6.5290	1.3361	6.8852	0.5973	0.1273	8.68%	1.3294	0.1895	1.3428	20.36%	2.90%	20.57%	7.0857	0.1951
008.05	1		6.8500													
008.08	26	26	6.2365	0.8958	6.1912	0.7023	0.0974	11.34%	0.8744	0.2757	0.9168	14.02%	4.42%	14.70%	3.3252	0.2884
008.99	2	2	10.3650	1.3647												
009.04	1		21.2000													
009.07	9	8	21.5590	2.2239	21.1285	1.7676	0.4419	8.37%	2.2179	0.2312	2.2299	10.29%	1.07%	10.34%	9.6467	0.2576
009.09	21	19	18.9286	0.9636	18.7004	0.4018	0.0652	2.15%	0.9392	0.3050	0.9875	4.96%	1.61%	5.22%	3.2376	0.3193
009.99	3	3	17.0667	1.8346	17.0667	1.8346	0.7490	10.75%	1.8285	0.2113	1.8407	10.71%	1.24%	10.79%	8.7094	0.2267
010.03	3	3	5.1677	2.1788	5.1677	2.1788	0.8895	42.16%	2.1722	0.2391	2.1854	42.03%	4.63%	42.29%	9.1385	0.3103
010.11	13	12	6.7120	0.6318	6.5523	0.3422	0.0698	5.22%	0.6307	0.0534	0.6329	9.40%	0.80%	9.43%	11.8591	0.0576
010.99	26	25	6.7046	1.7773	6.3098	0.5493	0.0777	8.71%	1.7757	0.1059	1.7789	26.48%	1.58%	26.53%	16.7921	0.1078
011.01	150	85	6.7717	0.3655	6.8139	0.2579	0.0198	3.79%	0.3602	0.0880	0.3708	5.32%	1.30%	5.48%	4.2155	0.0906
011.02	1		6.8000													
011.99	3	3	6.9250	0.3192	6.9250	0.3192	0.1303	4.61%	0.3130	0.0880	0.3252	4.52%	1.27%	4.70%	3.6939	0.1033
012.00	10	10	31.8415	1.3733	32.1072	1.0422	0.2331	3.25%	1.3693	0.1481	1.3772	4.30%	0.47%	4.33%	9.3013	0.1330
012.01	2	2	29.3000	0.3041												
012.02	1		40.0945													
012.03	3	3	29.8300	2.0238	29.8300	2.0238	0.8262	6.78%	2.0211	0.1467	2.0264	6.78%	0.49%	6.79%	13.8095	0.1667
012.04	5	5	31.1120	1.6570	31.1120	1.6570	0.5240	5.33%	1.6493	0.2254	1.6646	5.30%	0.72%	5.35%	7.3856	0.3120
012.11	6	5	32.3675	3.4436	32.3675	3.4436	1.0890	10.64%	3.4434	0.0508	3.4438	10.64%	0.16%	10.64%	67.7664	0.0630
013.00	19	17	9.2753	2.9354	8.6659	0.8263	0.1417	9.54%	2.9340	0.1289	2.9368	31.63%	1.39%	31.66%	22.7822	0.1106
013.02	104	43	8.7897	0.6595	8.7538	0.4767	0.0514	5.45%	0.6533	0.1279	0.6657	7.43%	1.45%	7.57%	5.2058	0.1285
013.10	16	16	7.9638	0.7233	8.0273	0.5885	0.1040	7.33%	0.7178	0.1264	0.7288	9.01%	1.59%	9.15%	5.7641	0.1454

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)
013.11	2	2	6.2250	0.8132												
013.12	2	2	7.4350	0.3041												
013.13	4	4	9.2999	0.5360	9.2999	0.5360	0.1895	5.76%	0.5208	0.1792	0.5507	5.60%	1.93%	5.92%	3.0735	0.2132
015.41	4	4	83.2384	21.7102	83.2384	21.7102	7.6757	26.08%	20.9002	8.3084	22.4910	25.11%	9.98%	27.02%	2.7070	7.7166
015.42	3	3	73.2717	13.7404	73.2717	13.7404	5.6095	18.75%	13.6571	2.1353	13.8231	18.64%	2.91%	18.87%	6.4737	2.4300
015.43	3	3	74.0917	26.7841	74.0917	26.7841	10.9346	36.15%	26.6928	3.1256	26.8751	36.03%	4.22%	36.27%	8.5983	3.7900
016.00	1		0.0740													
017.41	2	2	6.4525	1.2339												
017.42	3	3	6.3383	0.7284	6.3383	0.7284	0.2974	11.49%	0.7152	0.1957	0.7415	11.28%	3.09%	11.70%	3.7880	0.1967
017.43	2	2	5.5850	0.1768												
018.41	1		0.0570													
019.00	13	12	1.5093	0.9585	1.2505	0.0977	0.0200	7.82%	0.9584	0.0231	0.9587	63.50%	1.53%	63.52%	41.4699	0.0250
019.03	3	3	1.2884	0.0591	1.2884	0.0591	0.0241	4.59%	0.0545	0.0325	0.0634	4.23%	2.53%	4.92%	1.9491	0.0420
019.08	8	8	1.2406	0.0537	1.2392	0.0578	0.0145	4.67%	0.0529	0.0130	0.0545	4.26%	1.05%	4.39%	4.1925	0.0163
019.31	33	32	1.2411	0.1118	1.2502	0.0741	0.0093	5.92%	0.1110	0.0183	0.1125	8.95%	1.47%	9.07%	6.1505	0.0184
019.32	9	9	1.2504	0.0989	1.2598	0.0904	0.0213	7.17%	0.0977	0.0222	0.1001	7.81%	1.77%	8.01%	4.5156	0.0237
019.41	41	39	1.2558	0.0579	1.2545	0.0470	0.0053	3.74%	0.0560	0.0207	0.0598	4.46%	1.65%	4.76%	2.8807	0.0230
019.42	23	22	1.2848	0.0967	1.2668	0.0521	0.0079	4.11%	0.0947	0.0277	0.0987	7.37%	2.16%	7.68%	3.5611	0.0313
019.43	8	8	1.2464	0.0697	1.2370	0.0564	0.0141	4.56%	0.0651	0.0352	0.0740	5.22%	2.82%	5.94%	2.1015	0.0310
019.52	1		1.2357													
019.53	1		1.1800													
019.99	2	2	1.2550	0.2192												
020.31	1		3.1500													
020.32	1		9.4535													
020.41	2	2	4.1098	0.2691												
020.42	4	4	4.1366	1.1830	4.1366	1.1830	0.4182	28.60%	1.1683	0.2627	1.1975	28.24%	6.35%	28.95%	4.5578	0.3143
020.43	1		3.7450													
020.99	1		3.6050													
021.31	4	4	2.1888	0.7574	2.1888	0.7574	0.2678	34.60%	0.7568	0.0414	0.7579	34.58%	1.89%	34.63%	18.3154	0.0375
021.32	1		4.6869													
021.33	1		1.1790													
021.41	3	3	2.1929	0.2212	2.1929	0.2212	0.0903	10.09%	0.2110	0.0940	0.2310	9.62%	4.29%	10.53%	2.4576	0.1195
021.42	6	6	1.6267	0.5743	1.6267	0.6512	0.1880	40.03%	0.5649	0.1462	0.5835	34.73%	8.99%	35.87%	3.9910	0.1653
021.43	3	3	2.3500	0.2578	2.3500	0.2578	0.1053	10.97%	0.2286	0.1686	0.2841	9.73%	7.18%	12.09%	1.6846	0.1800
021.52	1		2.2100													
022.31	20	20	20.5099	3.5851	21.0586	1.4855	0.2349	7.05%	3.5436	0.7695	3.6262	17.28%	3.75%	17.68%	4.7122	0.7930
022.32	5	5	22.0920	3.0579	22.0920	3.0579	0.9670	13.84%	2.9161	1.3020	3.1935	13.20%	5.89%	14.46%	2.4528	1.3377
022.33	1		19.4500													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/sd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
022.41	32	31	21.0024	2.3510	20.9267	1.8595	0.2362	8.89%	2.2855	0.7791	2.4147	10.88%	3.71%	11.50%	3.0992	0.7750
022.42	23	22	20.8134	1.9302	20.5582	1.0456	0.1576	5.09%	1.8421	0.8153	2.0144	8.85%	3.92%	9.68%	2.4707	0.8523
022.43	9	9	19.6165	3.0163	19.7676	1.6298	0.3842	8.24%	2.9938	0.5199	3.0386	15.26%	2.65%	15.49%	5.8445	0.6139
022.52	1		21.5000													
022.53	1		20.2500													
023.01	1		11.6000													
024.99	1		4.6550													
025.31	21	21	272.5755	32.1664	270.3969	30.3451	4.6823	11.22%	32.0596	3.7054	32.2730	11.76%	1.36%	11.84%	8.7097	3.6386
025.32	3	3	288.3330	20.2100	288.3330	20.2100	8.2507	7.01%	19.1442	9.1589	21.2223	6.64%	3.18%	7.36%	2.3171	10.6671
025.33	1		234.0000													
025.41	33	32	269.7963	34.9025	270.1756	18.1612	2.2702	6.72%	34.3558	8.7018	35.4407	12.73%	3.23%	13.14%	4.0728	7.2791
025.42	21	21	276.1586	34.1276	271.9207	24.7160	3.8138	9.09%	33.7380	7.2714	34.5127	12.22%	2.63%	12.50%	4.7464	7.5467
025.43	8	8	276.8112	17.4740	276.2781	13.7054	3.4263	4.96%	15.5354	11.3129	19.2180	5.61%	4.09%	6.94%	1.6988	10.4381
025.52	1		282.4500													
026.31	1		591.0000													
026.52	1		0.5800													
026.99	1		1.6250													
027.31	20	20	0.3045	0.0176	0.3048	0.0177	0.0028	5.80%	0.0172	0.0057	0.0181	5.64%	1.87%	5.94%	3.1831	0.0063
027.32	7	7	0.2981	0.0142	0.2981	0.0161	0.0043	5.41%	0.0134	0.0066	0.0150	4.51%	2.21%	5.02%	2.2729	0.0065
027.41	31	31	0.3138	0.0179	0.3120	0.0150	0.0019	4.81%	0.0170	0.0079	0.0188	5.43%	2.51%	5.98%	2.3827	0.0075
027.42	21	21	0.3093	0.0247	0.3023	0.0071	0.0011	2.34%	0.0241	0.0078	0.0253	7.80%	2.51%	8.19%	3.2671	0.0076
027.43	7	7	0.3041	0.0129	0.3056	0.0113	0.0030	3.70%	0.0108	0.0099	0.0147	3.55%	3.27%	4.82%	1.4762	0.0097
027.52	1		0.2958													
027.53	1		0.2945													
028.31	20	20	78.1605	7.7625	78.3500	8.3739	1.3240	10.69%	7.6791	1.6046	7.8450	9.82%	2.05%	10.04%	4.8891	1.5370
028.32	4	4	97.6810	43.4411	97.6810	43.4411	15.3588	44.47%	43.4146	2.1491	43.4677	44.45%	2.20%	44.50%	20.2259	2.3921
028.33	1		62.7500													
028.41	33	33	82.8407	6.8350	81.8607	3.7947	0.4671	4.64%	6.7166	1.7913	6.9514	8.11%	2.16%	8.39%	3.8805	1.7875
028.42	23	22	82.7342	5.9178	82.8152	3.9386	0.5938	4.76%	5.6727	2.3836	6.1531	6.86%	2.88%	7.44%	2.5814	2.3869
028.43	9	9	80.9796	3.9131	81.2474	3.6679	0.8645	4.51%	3.7113	1.7544	4.1050	4.58%	2.17%	5.07%	2.3399	1.9946
028.52	1		80.0000													
028.53	1		80.8500													
029.99	1		0.0065													
031.00	2	2	1.0838	0.0088												
031.01	44	43	1.0916	0.0745	1.1035	0.0343	0.0037	3.10%	0.0738	0.0144	0.0752	6.76%	1.32%	6.89%	5.2342	0.0125
031.02	2	2	1.1370	0.0184												
031.03	5	5	1.0988	0.0750	1.0988	0.0750	0.0237	6.82%	0.0747	0.0094	0.0753	6.80%	0.86%	6.85%	7.9945	0.0118
031.04	1		1.0100													

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 %/sd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
031.06	4	4	1.0960	0.0953	1.0960	0.0953	0.0337	8.70%	0.0929	0.0301	0.0977	8.48%	2.74%	8.91%	3.2488	0.0320
031.41	37	35	1.1219	0.0569	1.1254	0.0467	0.0056	4.15%	0.0560	0.0143	0.0578	4.99%	1.27%	5.15%	4.0520	0.0141
031.42	21	20	1.0949	0.1008	1.0990	0.0575	0.0091	5.23%	0.0972	0.0375	0.1042	8.88%	3.42%	9.52%	2.7809	0.0356
031.43	7	7	1.0996	0.0308	1.0950	0.0270	0.0072	2.47%	0.0297	0.0119	0.0320	2.70%	1.08%	2.91%	2.6852	0.0116
031.52	1		0.1074													
031.53	1		1.0450													
031.99	5	5	1.0760	0.1243	1.0760	0.1243	0.0393	11.55%	0.1183	0.0539	0.1300	10.99%	5.00%	12.08%	2.4135	0.0480
032.02	8	7	0.9303	0.0898	0.9188	0.0371	0.0099	4.04%	0.0893	0.0144	0.0904	9.59%	1.55%	9.72%	6.2817	0.0176
032.31	22	22	0.8781	0.0432	0.8792	0.0448	0.0068	5.09%	0.0424	0.0120	0.0441	4.83%	1.37%	5.02%	3.6738	0.0126
032.32	3	3	0.8817	0.0388	0.8817	0.0388	0.0159	4.40%	0.0383	0.0091	0.0394	4.34%	1.04%	4.47%	4.3128	0.0100
032.41	35	35	0.8986	0.0602	0.8918	0.0423	0.0051	4.74%	0.0584	0.0211	0.0621	6.49%	2.35%	6.91%	2.9379	0.0207
032.42	22	22	0.9110	0.1024	0.8950	0.0409	0.0062	4.57%	0.1003	0.0287	0.1044	11.01%	3.15%	11.45%	3.6339	0.0303
032.43	8	7	0.8673	0.0291	0.8678	0.0319	0.0085	3.68%	0.0285	0.0082	0.0296	3.28%	0.95%	3.42%	3.6084	0.0091
032.52	1		0.5083													
032.53	1		0.8700													
032.99	1		0.6225													
033.00	25	25	0.7102	0.1091	0.7274	0.0726	0.0103	9.99%	0.1085	0.0160	0.1097	15.28%	2.26%	15.44%	6.8441	0.0175
033.01	33	32	0.7901	0.0441	0.7924	0.0158	0.0020	2.00%	0.0435	0.0106	0.0448	5.50%	1.34%	5.66%	4.2272	0.0101
033.03	8	8	0.7038	0.1687	0.7373	0.1181	0.0295	16.02%	0.1672	0.0316	0.1702	23.76%	4.49%	24.18%	5.3810	0.0350
033.05	2	2	0.7775	0.0035												
033.99	8	8	0.7112	0.1852	0.7541	0.0753	0.0188	9.98%	0.1847	0.0196	0.1857	25.97%	2.76%	26.11%	9.4768	0.0221
034.01	2	2	0.8325	0.0389												
034.04	7	7	0.8158	0.1144	0.8477	0.0701	0.0187	8.27%	0.1129	0.0263	0.1159	13.84%	3.23%	14.21%	4.4009	0.0307
034.34	1		237.0000													
034.42	2	2	1.0025	0.5692												
034.52	1		0.8900													
034.53	1		0.7985													
034.99	3	3	0.7296	0.0769	0.7296	0.0769	0.0314	10.54%		0.1309			17.94%			0.1600
035.01	3	3	0.3063	0.0078	0.3063	0.0078	0.0032	2.54%	0.0037	0.0097	0.0104	1.19%	3.16%	3.38%	1.0686	0.0127
035.05	7	7	0.3224	0.0329	0.3069	0.0026	0.0007	0.85%	0.0322	0.0097	0.0336	9.98%	3.00%	10.42%	3.4745	0.0108
035.31	21	21	0.3061	0.0312	0.3083	0.0221	0.0034	7.16%	0.0306	0.0089	0.0318	9.99%	2.90%	10.40%	3.5814	0.0088
035.32	5	5	0.3283	0.0231	0.3283	0.0231	0.0073	7.03%	0.0228	0.0048	0.0233	6.95%	1.47%	7.11%	4.8211	0.0055
035.41	33	32	0.3194	0.0168	0.3190	0.0170	0.0021	5.34%	0.0158	0.0080	0.0177	4.95%	2.50%	5.55%	2.2181	0.0080
035.42	19	19	0.3254	0.0311	0.3182	0.0191	0.0031	5.99%	0.0297	0.0129	0.0324	9.14%	3.97%	9.96%	2.5123	0.0136
035.43	6	6	0.3103	0.0257	0.3103	0.0292	0.0084	9.40%	0.0250	0.0086	0.0264	8.05%	2.77%	8.52%	3.0765	0.0072
035.52	1		0.3189													
035.53	1		0.2990													
036.00	1		0.3600													

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)
036.04	1		0.2250													
036.42	17	16	0.1999	0.0429	0.2111	0.0156	0.0028	7.37%	0.0427	0.0062	0.0431	21.36%	3.11%	21.58%	6.9455	0.0067
036.43	7	7	0.2414	0.0762	0.2136	0.0169	0.0045	7.93%	0.0762	0.0030	0.0763	31.58%	1.26%	31.60%	25.1275	0.0024
036.99	1		0.3425													
037.31	20	20	178.1825	12.8658	175.7233	8.1778	1.2930	4.65%	12.6466	3.3445	13.0814	7.10%	1.88%	7.34%	3.9113	3.3995
037.32	5	5	183.4487	8.5050	183.4487	8.5050	2.6895	4.64%	8.0840	3.7374	8.9061	4.41%	2.04%	4.85%	2.3830	4.0977
037.33	1		192.6000													
037.41	33	32	182.7911	20.4114	180.8954	11.9000	1.4875	6.58%	20.1855	4.2820	20.6347	11.04%	2.34%	11.29%	4.8189	3.9786
037.42	22	22	179.2960	13.8269	178.9768	13.2524	1.9979	7.40%	13.2730	5.4792	14.3595	7.40%	3.06%	8.01%	2.6207	5.1627
037.43	9	9	178.4594	12.6715	178.4594	14.3695	3.3869	8.05%	9.7185	11.4995	15.0561	5.45%	6.44%	8.44%	1.3093	10.8989
037.52	1		185.6500													
037.53	1		180.5000													
038.31	1		2.0000													
038.41	2	2	1.6499	0.0210												
038.42	4	4	1.2161	0.2052	1.2161	0.2052	0.0725	16.87%	0.1945	0.0923	0.2153	15.99%	7.59%	17.71%	2.3317	0.0938
038.43	4	4	1.3213	0.0792	1.3213	0.0792	0.0280	5.99%	0.0129	0.1105	0.1113	0.98%	8.36%	8.42%	1.0068	0.1125
038.52	1		1.5250													
039.31	1		2.6500													
039.41	1		3.0578													
039.42	3	3	4.4978	1.2577	4.4978	1.2577	0.5135	27.96%	1.0135	1.0533	1.4617	22.53%	23.42%	32.50%	1.3877	1.0923
039.52	1		4.0000													
040.42	1		17.7000													
102.01	2	2	56.7900	0.9051												
104.00	3	3	2.1767	0.1610	2.1767	0.1610	0.0657	7.39%	0.1540	0.0661	0.1676	7.08%	3.04%	7.70%	2.5364	0.0933
104.03	1		0.8100													
105.00	2	2	6.1215	0.9596												
105.01	2	2	7.4600	1.0394												
106.00	1		2.1000													
106.02	13	13	2.3156	0.6421	2.3098	0.6219	0.1220	26.92%	0.6328	0.1541	0.6513	27.33%	6.65%	28.13%	4.2275	0.1640
107.00	1		12.1000													
107.99	1		11.5750													
108.01	1		0.4345													
108.02	2	2	2.4250	2.0153												
109.02	9	9	55.2415	23.7876	49.4579	15.0198	3.5402	30.37%	23.7017	2.8565	23.8732	42.91%	5.17%	43.22%	8.3574	3.0726
113.01	1		1.2250													
114.01	1		0.2165													
114.99	1		0.2045													
120.00	15	15	1.1051	0.1049	1.1281	0.0390	0.0071	3.46%	0.1043	0.0147	0.1054	9.44%	1.33%	9.53%	7.1799	0.0145

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO 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)
120.05	2	2	1.1430	0.1471												
120.99	1		1.1800													
121.00	15	15	1.2838	0.0646	1.2905	0.0590	0.0108	4.57%	0.0642	0.0099	0.0650	5.00%	0.77%	5.06%	6.5777	0.0110
121.05	2	2	1.3190	0.1146												
121.99	1		1.2850													
122.00	15	15	1.6063	0.0549	1.6109	0.0494	0.0090	3.06%	0.0543	0.0118	0.0555	3.38%	0.73%	3.46%	4.7235	0.0125
122.05	2	2	1.7193	0.3765												
122.99	1		1.8550													
124.00	12	12	0.3140	0.0268	0.3093	0.0170	0.0035	5.51%	0.0264	0.0062	0.0271	8.41%	1.97%	8.63%	4.3906	0.0068
124.02	2	2	0.2713	0.0053												
124.05	1		0.2790													
124.99	1		0.2750													
125.00	15	15	3.3303	0.1370	3.3279	0.0761	0.0139	2.29%	0.1357	0.0264	0.1382	4.07%	0.79%	4.15%	5.2404	0.0295
125.05	2	2	3.4945	0.6272												
125.99	1		3.3400													
126.00	15	14	1.3448	0.0494	1.3448	0.0560	0.0106	4.17%	0.0491	0.0084	0.0498	3.65%	0.63%	3.70%	5.8973	0.0091
126.05	2	2	1.2880	0.0870												
126.99	1		1.4100													
127.00	15	15	0.4982	0.0465	0.4874	0.0184	0.0034	3.78%	0.0461	0.0082	0.0469	9.26%	1.65%	9.40%	5.7125	0.0088
127.05	2	2	0.4623	0.0477												
127.99	1		0.5350													
128.00	15	15	0.6713	0.0232	0.6709	0.0255	0.0046	3.79%	0.0227	0.0068	0.0237	3.38%	1.01%	3.53%	3.5095	0.0077
128.05	2	2	0.6233	0.1305												
128.99	1		0.7													
129.00	15	15	1.4217933	0.0938162	1.4451149	0.0409265	0.007472	2.83%	0.0935211	0.010515	0.0941104	6.58%	0.74%	6.62%	8.949997	0.00952
129.05	2	2	1.39725	0.1170262												
129.99	1		1.48													
130.00	15	14	0.9170357	0.0296405	0.9196224	0.0269934	0.005101	2.94%	0.0291076	0.007912	0.0301639	3.17%	0.86%	3.29%	3.812197	0.007357
130.05	2	2	0.9065	0.1484924												
130.99	1		0.945													
131.00	14	13	0.291	0.0276564	0.2922308	0.0156023	0.00306	5.34%	0.0272564	0.006627	0.0280506	9.37%	2.28%	9.64%	4.232489	0.007231
131.02	1		0.435													
131.05	2	2	0.2835	0.053033												
131.99	1		0.295													
132.00	15	14	0.8393357	0.0654841	0.8269825	0.0410964	0.007766	4.97%	0.0652933	0.007063	0.0656742	7.78%	0.84%	7.82%	9.29824	0.008014
132.05	2	2	0.78225	0.0717713												
132.99	1		0.84													
133.00	15	15	1.27947	0.1353039	1.3047977	0.0655879	0.011975	5.03%	0.1347951	0.016579	0.1358108	10.54%	1.30%	10.61%	8.191978	0.017273

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO 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)
133.05	2	2	1.3205	0.1046518												
133.99	1		1.385													
134.00	15	14	0.8493143	0.0317537	0.8491993	0.0308096	0.005822	3.63%	0.0305289	0.012352	0.032933	3.59%	1.45%	3.88%	2.666225	0.011671
134.05	2	2	0.89	0.0438406												
134.99	1		0.825													
135.00	15	15	0.6798733	0.021532	0.6796014	0.0234106	0.004274	3.44%	0.0211203	0.005926	0.0219359	3.11%	0.87%	3.23%	3.701785	0.006853
135.05	2	2	0.68225	0.0675287												
135.99	1		0.705													
136.00	2	2	0.3244	0.1165312												
136.01	6	5	0.2269	0.0248128	0.2269	0.0248128	0.007846	10.94%	0.0247977	0.001225	0.0248279	10.93%	0.54%	10.94%	20.2719	0.0014
136.03	1		0.2335													
136.99	2	2	0.2125	0.0106066												
137.00	10	10	0.561975	0.0812356	0.5519	0.0296633	0.006633	5.37%	0.0802744	0.017621	0.0821856	14.28%	3.14%	14.62%	4.664067	0.01789
137.05	1		0.453													
137.99	1		0.53													
138.00	15	14	0.8917143	0.0334392	0.8907326	0.0345158	0.006523	3.87%	0.0328677	0.008705	0.0340011	3.69%	0.98%	3.81%	3.905703	0.008714
138.05	2	2	0.84525	0.1347038												
138.99	1		0.92													
139.00	1		0.055													
140.01	1		0.011													
141.00	1		0.003													
142.00	1		0.042													
300.20	1		0.13													