

# AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201428

Dry Cat Food



# AAFCO

## Check Sample Program

Issue Date : 09/30/2014

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fip - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/srd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.02	1		0.10000														
000.99	1		0.00000														
001.00	8	6	4.4205	0.56630	4.6503	0.24874	0.07181	5.35%	0.55860	0.13164	0.57390	12.64%	2.98%	12.98%	4.3596	0.12408	3.17%
001.03	12	10	4.7613	0.07744	4.7556	0.07099	0.01514	1.49%	0.07730	0.00648	0.07757	1.62%	0.14%	1.63%	11.962	0.00696	3.16%
001.05	1		4.8400														
001.07	37	33	4.6690	0.22069	4.6558	0.22363	0.02673	4.80%	0.21465	0.07257	0.22658	4.60%	1.55%	4.85%	3.1224	0.08703	3.17%
001.08	3	3	4.5500	0.32787	4.5500	0.32787	0.13385	7.21%	0.32655	0.04163	0.32919	7.18%	0.92%	7.23%	7.9069	0.04000	3.18%
001.99	16	14	4.2696	0.53283	4.4107	0.43805	0.07744	9.93%	0.53118	0.05931	0.53448	12.44%	1.39%	12.52%	9.0114	0.07750	3.20%
002.00	4	4	31.865	0.43541	31.865	0.43541	0.15394	1.37%	0.42813	0.11214	0.44257	1.34%	0.35%	1.39%	3.9467	0.11000	2.38%
002.01	12	10	32.081	0.29360	31.988	0.26967	0.05505	0.84%	0.28709	0.08695	0.29997	0.89%	0.27%	0.94%	3.4497	0.15675	2.37%
002.02	4	4	31.579	0.41541	31.579	0.41541	0.14687	1.32%	0.40602	0.12420	0.42459	1.29%	0.39%	1.34%	3.4187	0.14208	2.38%
002.04	5	5	32.316	0.61541	32.316	0.61541	0.19461	1.90%	0.61192	0.09252	0.61888	1.89%	0.29%	1.92%	6.6891	0.10400	2.37%
002.05	40	38	31.964	0.38600	31.970	0.35265	0.03993	1.10%	0.38246	0.07382	0.38951	1.20%	0.23%	1.22%	5.2767	0.08377	2.37%
002.06	223	129	32.415	0.35640	32.425	0.26429	0.01603	0.82%	0.33941	0.15379	0.37262	1.05%	0.47%	1.15%	2.4229	0.18418	2.37%
002.08	3	2	32.198	0.00354	32.149	0.08453	0.03451	0.26%		0.04500			0.14%			0.13830	2.37%
002.10	1		31.895														
002.11	5	4	33.886	1.1026	33.022	2.1556	0.68165	6.53%	1.1019	0.05799	1.1034	3.25%	0.17%	3.26%	19.028	0.15600	2.36%
002.99	3	3	32.058	0.49250	32.058	0.49250	0.20106	1.54%	0.45139	0.27860	0.53044	1.41%	0.87%	1.65%	1.9040	0.32333	2.37%
003.00	8	7	6.6921	0.40851	6.6599	0.38623	0.10322	5.80%	0.40346	0.09059	0.41350	6.03%	1.35%	6.18%	4.5644	0.09857	3.01%
003.01	2	0															
003.06	21	19	6.5998	0.29796	6.6090	0.19408	0.02995	2.94%	0.29080	0.09182	0.30495	4.41%	1.39%	4.62%	3.3211	0.11724	3.01%
003.09	16	14	6.6675	0.31058	6.6448	0.21603	0.03944	3.25%	0.30724	0.06423	0.31388	4.61%	0.96%	4.71%	4.8872	0.06200	3.01%
003.10	28	23	6.5524	0.13291	6.5419	0.15146	0.02142	2.32%	0.12976	0.04064	0.13598	1.98%	0.62%	2.08%	3.3457	0.05924	3.01%
003.11	5	5	8.8210	2.5006	8.8210	2.5006	0.79076	28.35%	2.4994	0.11149	2.5018	28.33%	1.26%	28.36%	22.440	0.11000	2.88%
003.12	7	7	6.5079	0.12041	6.5240	0.10434	0.02789	1.60%	0.11858	0.02958	0.12221	1.82%	0.45%	1.88%	4.1313	0.02974	3.02%
003.13	10	9	6.8494	0.73454	6.6731	0.20553	0.04596	3.08%	0.73127	0.09799	0.73780	10.68%	1.43%	10.77%	7.5293	0.11090	3.01%
003.14	30	27	6.4928	0.35623	6.5179	0.20709	0.02719	3.18%	0.35315	0.06607	0.35928	5.44%	1.02%	5.53%	5.4381	0.07484	3.02%

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003.99	4	3	8.4033	0.51610	8.4033	0.51610	0.21070	6.14%	0.44103	0.37908	0.58156	5.25%	4.51%	6.92%	1.5341	0.40000	2.90%
004.00	21	21	2.2195	0.26537	2.2011	0.22899	0.03533	10.40%	0.26089	0.06870	0.26978	11.75%	3.10%	12.15%	3.9272	0.07810	3.55%
004.01	1		3.1650														
004.03	6	5	2.0210	0.47512	2.0210	0.47512	0.15025	23.51%	0.47481	0.02429	0.47543	23.49%	1.20%	23.52%	19.573	0.02600	3.60%
004.06	35	30	2.2233	0.31724	2.2304	0.29009	0.03571	13.01%	0.31217	0.07988	0.32223	14.04%	3.59%	14.49%	4.0337	0.09390	3.54%
004.07	55	50	2.0064	0.57912	1.9554	0.47021	0.04567	24.05%	0.57293	0.11940	0.58524	28.56%	5.95%	29.17%	4.9014	0.13213	3.62%
004.11	3	3	2.0967	0.52776	2.0967	0.52776	0.21546	25.17%	0.52643	0.05292	0.52909	25.11%	2.52%	25.23%	9.9988	0.06667	3.58%
004.99	1		1.6250														
005.00	182	101	6.8551	0.18397	6.8439	0.19033	0.01301	2.78%	0.18068	0.04897	0.18720	2.64%	0.71%	2.73%	3.8225	0.05998	2.99%
005.01	1		6.5350														
005.02	1		7.0900														
005.03	1		6.7000														
005.05	28	27	7.0571	0.12742	7.0533	0.09886	0.01321	1.40%	0.12309	0.04658	0.13161	1.74%	0.66%	1.86%	2.8252	0.05725	2.98%
005.11	3	3	7.4067	1.8801	7.4067	1.8801	0.76755	25.38%	1.8774	0.14224	1.8828	25.35%	1.92%	25.42%	13.236	0.14667	2.96%
005.99	8	6	7.0550	0.13882	7.0361	0.14921	0.03988	2.12%	0.13876	0.00577	0.13888	1.97%	0.08%	1.97%	24.054	0.01857	2.98%
006.00	3	3	3.1100	0.90135	3.1100	0.90135	0.36797	28.98%	0.89555	0.14434	0.90711	28.80%	4.64%	29.17%	6.2846	0.14000	3.37%
006.01	1		3.4600														
006.99	7	7	3.2443	1.1049	2.4908	0.10029	0.02680	4.03%	1.0999	0.14750	1.1098	33.90%	4.55%	34.21%	7.5238	0.13714	3.49%
008.02	11	9	4.0200	0.69842	4.1225	0.60296	0.13483	14.63%	0.69155	0.13820	0.70523	17.20%	3.44%	17.54%	5.1028	0.19900	3.23%
008.05	1		3.7000														
008.08	32	27	3.9614	1.2116	3.9768	1.3231	0.16803	33.27%	1.2033	0.20006	1.2198	30.38%	5.05%	30.79%	6.0973	0.25801	3.25%
008.99	1		13.735														
009.04	1		11.120														
009.07	5	5	11.107	2.3959	11.107	2.3959	0.75765	21.57%	2.3906	0.22590	2.4012	21.52%	2.03%	21.62%	10.630	0.25400	2.78%
009.09	33	29	10.544	1.5821	10.435	1.6126	0.20157	15.45%	1.5695	0.28224	1.5946	14.89%	2.68%	15.12%	5.6500	0.35749	2.81%
009.99	2	0															
010.03	3	3	4.0033	1.1200	4.0033	1.1200	0.45724	27.98%	1.1182	0.08944	1.1218	27.93%	2.23%	28.02%	12.542	0.10667	3.25%
010.11	5	5	4.4740	0.47879	4.4740	0.47879	0.15141	10.70%	0.47488	0.08637	0.48267	10.61%	1.93%	10.79%	5.5883	0.08400	3.19%
010.99	11	9	4.8478	0.41029	4.7955	0.47704	0.10667	9.95%	0.40993	0.02427	0.41065	8.46%	0.50%	8.47%	16.922	0.04300	3.16%
011.01	166	77	5.2136	0.29147	5.2219	0.28895	0.02256	5.53%	0.28775	0.06568	0.29515	5.52%	1.26%	5.66%	4.4937	0.07957	3.12%
011.02	3	3	4.9883	0.41359	4.9883	0.41359	0.16885	8.29%	0.41148	0.05902	0.41569	8.25%	1.18%	8.33%	7.0433	0.07000	3.14%
011.03	2	0															
011.99	3	3	5.9367	1.4334	5.9367	1.4334	0.58517	24.14%	1.4298	0.14283	1.4369	24.08%	2.41%	24.20%	10.060	0.17333	3.06%
012.00	11	9	33.554	0.58923	33.564	0.85034	0.18129	2.53%	0.57896	0.15490	0.59932	1.73%	0.46%	1.79%	3.8691	0.22636	2.36%
012.01	5	5	30.628	1.2932	30.628	1.2932	0.40895	4.22%	1.2644	0.38416	1.3214	4.13%	1.25%	4.31%	3.4398	0.48048	2.39%
012.03	5	3	30.727	0.44959	30.075	1.2968	0.41009	4.31%	0.44197	0.11662	0.45709	1.44%	0.38%	1.49%	3.9195	0.57000	2.40%
012.04	5	5	31.668	1.1347	31.668	1.1347	0.35883	3.58%	1.1133	0.31045	1.1557	3.52%	0.98%	3.65%	3.7228	0.40000	2.38%
012.11	3	3	30.282	1.8316	30.282	1.8316	0.74773	6.05%	1.8269	0.18552	1.8363	6.03%	0.61%	6.06%	9.8980	0.25667	2.39%

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013.00	24	20	9.4563	0.69447	9.4244	0.76128	0.11224	8.08%	0.69057	0.10406	0.69836	7.30%	1.10%	7.39%	6.7114	0.15391	2.85%
013.02	126	45	9.9159	0.29425	9.9130	0.28578	0.02917	2.88%	0.27980	0.12877	0.30801	2.82%	1.30%	3.11%	2.3920	0.16049	2.83%
013.08	1		7.3500														
013.10	12	11	9.1369	1.2011	9.2928	0.72742	0.14848	7.83%	1.1967	0.14460	1.2054	13.10%	1.58%	13.19%	8.3362	0.16117	2.86%
013.13	5	4	10.100	0.19715	9.7160	0.87546	0.27684	9.01%		0.35313			3.50%			0.32400	2.84%
014.99	1		10.485														
015.41	6	6	76.304	7.5597	77.168	6.6278	1.9133	8.59%	6.5278	5.3920	8.4668	8.56%	7.07%	11.10%	1.5703	5.8149	8.32%
015.42	1		77.400														
015.43	6	6	77.837	19.725	80.214	17.226	4.9728	21.48%	19.526	3.9552	19.922	25.09%	5.08%	25.59%	5.0369	4.5730	8.27%
015.53	1		99.150														
017.41	2	0															
017.42	3	3	6.8833	1.2633	6.8833	1.2633	0.51573	18.35%	1.1893	0.60230	1.3331	17.28%	8.75%	19.37%	2.2134	0.71333	11.97%
017.43	6	6	6.0383	3.3616	6.4767	0.97520	0.28152	15.06%	3.3605	0.12207	3.3627	55.65%	2.02%	55.69%	27.548	0.12333	12.08%
017.53	1		7.1000														
019.00	18	16	1.4341	0.07043	1.4320	0.07537	0.01293	5.26%	0.06996	0.01145	0.07089	4.88%	0.80%	4.94%	6.1918	0.01308	3.79%
019.02	1		1.2750														
019.03	1		1.5826														
019.08	11	10	1.5039	0.05150	1.4938	0.06196	0.01321	4.15%	0.05064	0.01327	0.05235	3.37%	0.88%	3.48%	3.9459	0.01239	3.77%
019.09	1		1.4550														
019.31	26	25	1.4639	0.06247	1.4712	0.05974	0.00828	4.06%	0.05920	0.02818	0.06557	4.04%	1.93%	4.48%	2.3266	0.02918	3.77%
019.32	5	4	1.4976	0.11591	1.5144	0.10717	0.03389	7.08%	0.11577	0.00827	0.11606	7.73%	0.55%	7.75%	14.035	0.03334	3.76%
019.33	1		1.5840														
019.41	35	34	1.4886	0.07215	1.4867	0.07324	0.00875	4.93%	0.06963	0.02676	0.07460	4.68%	1.80%	5.01%	2.7873	0.02691	3.77%
019.42	19	17	1.4994	0.05418	1.5042	0.05521	0.00920	3.67%	0.04799	0.03558	0.05974	3.20%	2.37%	3.98%	1.6790	0.03352	3.76%
019.43	17	16	1.4780	0.06823	1.4769	0.06698	0.01184	4.54%	0.06602	0.02437	0.07038	4.47%	1.65%	4.76%	2.8876	0.02656	3.77%
019.44	2	0															
019.52	1		1.2689														
019.53	3	3	1.5798	0.06584	1.5798	0.06584	0.02688	4.17%	0.06512	0.01372	0.06655	4.12%	0.87%	4.21%	4.8517	0.01567	3.73%
019.99	6	6	1.3233	0.20673	1.3233	0.23443	0.06767	17.72%	0.20661	0.01010	0.20685	15.61%	0.76%	15.63%	20.481	0.01133	3.83%
021.00	1		0.81050														
021.31	4	4	1.5625	0.44230	1.5625	0.44230	0.15637	28.31%	0.43875	0.07906	0.44581	28.08%	5.06%	28.53%	5.6391	0.07500	14.96%
021.34	1		1.2700														
021.41	4	3	0.92892	0.22708	1.0578	0.31754	0.11227	30.02%	0.22658	0.02139	0.22759	24.39%	2.30%	24.50%	10.638	0.08708	15.86%
021.42	2	0															
021.43	5	4	1.2700	0.25791	1.3110	0.24144	0.07635	18.42%	0.25613	0.04272	0.25967	20.17%	3.36%	20.45%	6.0784	0.14200	15.36%
021.52	1		0.81500														
021.53	5	5	0.97305	0.19415	0.97305	0.19415	0.06140	19.95%	0.14368	0.18466	0.23398	14.77%	18.98%	24.05%	1.2670	0.18698	16.06%
022.31	20	17	21.760	1.6896	22.171	1.6625	0.26969	7.50%	1.6383	0.58436	1.7394	7.53%	2.69%	7.99%	2.9766	0.76063	10.03%

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022.32	4	4	22.775	2.3409	22.775	2.3409	0.82764	10.28%	2.2729	0.79209	2.4070	9.98%	3.48%	10.57%	3.0388	0.93000	9.99%
022.33	1		22.600														
022.41	27	25	22.379	3.0317	22.587	2.4687	0.34234	10.93%	2.9263	1.1209	3.1336	13.08%	5.01%	14.00%	2.7956	1.1670	10.01%
022.42	16	13	23.965	1.7704	23.870	1.4031	0.25617	5.88%	1.7601	0.26929	1.7806	7.34%	1.12%	7.43%	6.6121	0.35013	9.92%
022.43	18	16	22.957	1.5145	22.859	1.5987	0.27418	6.99%	1.4755	0.48289	1.5525	6.43%	2.10%	6.76%	3.2152	0.56059	9.99%
022.44	1		23.050														
022.52	1		23.500														
022.53	4	3	22.650	2.2096	23.738	2.8259	0.99910	11.90%	2.2087	0.09129	2.2106	9.75%	0.40%	9.76%	24.216	0.57500	9.93%
022.99	3	3	24.462	5.5684	24.462	5.5684	2.2733	22.76%	5.5308	0.91310	5.6057	22.61%	3.73%	22.92%	6.1392	1.0167	9.89%
025.31	17	16	348.30	30.233	347.80	28.981	5.1232	8.33%	30.103	3.9632	30.362	8.64%	1.14%	8.72%	7.6610	3.8455	6.63%
025.32	3	3	317.08	49.260	317.08	49.260	20.110	15.54%	48.971	7.5323	49.547	15.44%	2.38%	15.63%	6.5779	10.033	6.72%
025.33	2	0															
025.41	27	24	337.95	15.668	339.85	15.656	2.1711	4.61%	15.395	4.1154	15.936	4.56%	1.22%	4.72%	3.8722	5.2324	6.65%
025.42	16	13	342.74	23.127	338.55	23.651	4.3181	6.99%	22.626	6.7720	23.618	6.60%	1.98%	6.89%	3.4876	8.0353	6.66%
025.43	19	18	329.95	28.081	328.79	25.907	4.2026	7.88%	27.136	10.219	28.996	8.22%	3.10%	8.79%	2.8376	11.596	6.69%
025.52	2	0															
025.53	2	0															
025.99	2	0															
027.31	17	15	0.15472	0.00689	0.15499	0.00633	0.00109	4.09%	0.00677	0.00184	0.00702	4.38%	1.19%	4.54%	3.8058	0.00285	5.30%
027.32	5	3	0.15793	0.00435	3.5258	7.5323	2.3819	213.64%	0.00434	0.00041	0.00436	2.75%	0.26%	2.76%	10.585	0.00232	3.31%
027.33	2	0															
027.41	23	21	0.16288	0.00823	0.16096	0.00872	0.00129	5.42%	0.00765	0.00430	0.00877	4.69%	2.64%	5.39%	2.0399	0.00437	5.27%
027.42	14	12	0.15768	0.00692	0.15763	0.00503	0.00095	3.19%	0.00624	0.00422	0.00754	3.96%	2.68%	4.78%	1.7846	0.00533	5.28%
027.43	17	16	0.15563	0.01014	0.15570	0.01134	0.00201	7.28%	0.00980	0.00367	0.01047	6.30%	2.36%	6.73%	2.8551	0.00350	5.29%
027.44	2	0															
027.52	1		0.14100														
027.53	3	3	0.17367	0.01176	0.17367	0.01176	0.00480	6.77%	0.01123	0.00491	0.01226	6.47%	2.83%	7.06%	2.4979	0.00567	5.21%
027.99	3	3	0.14000	0.04822	0.14000	0.04822	0.01969	34.44%	0.04805	0.00577	0.04839	34.32%	4.12%	34.56%	8.3815	0.00667	5.38%
028.31	19	17	42.837	2.6271	43.057	2.7236	0.44183	6.33%	2.5826	0.68111	2.6709	6.03%	1.59%	6.24%	3.9214	1.1827	9.08%
028.32	3	3	53.407	12.222	53.407	12.222	4.9896	22.88%	12.132	2.0901	12.311	22.72%	3.91%	23.05%	5.8903	2.0333	8.79%
028.33	2	0															
028.41	27	24	42.865	2.8091	43.365	1.7349	0.23608	4.00%	2.7014	1.0896	2.9129	6.30%	2.54%	6.80%	2.6734	1.3150	9.07%
028.42	17	16	43.566	3.5597	44.030	3.0057	0.53134	6.83%	3.4853	1.0233	3.6325	8.00%	2.35%	8.34%	3.5496	1.0863	9.05%
028.43	17	17	43.805	2.6110	43.775	2.6333	0.45161	6.02%	2.5333	0.89404	2.6864	5.78%	2.04%	6.13%	3.0048	0.92294	9.06%
028.44	2	0															
028.52	1		45.500														
028.53	3	3	46.550	0.57663	46.550	0.57663	0.23541	1.24%		1.6437			3.53%			1.6333	8.97%
028.99	2	0															

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.00	2	0															
031.01	50	47	0.84944	0.02859	0.84984	0.02730	0.00276	3.21%	0.02791	0.00879	0.02926	3.29%	1.03%	3.44%	3.3288	0.00987	4.10%
031.02	1		0.84295														
031.03	3	1	0.86000		26.905	45.115	18.418	167.68%		0.00000			0.00%			0.00023	2.44%
031.06	2	0															
031.41	28	26	0.86135	0.04965	0.85691	0.03376	0.00459	3.94%	0.04912	0.01028	0.05018	5.70%	1.19%	5.83%	4.8819	0.01045	4.09%
031.42	16	16	0.84368	0.02979	0.84402	0.02516	0.00445	2.98%	0.02473	0.02350	0.03411	2.93%	2.78%	4.04%	1.4518	0.02246	4.10%
031.43	18	17	0.87402	0.04902	0.87095	0.04011	0.00669	4.61%	0.04821	0.01255	0.04981	5.52%	1.44%	5.70%	3.9689	0.01362	4.08%
031.44	2	0															
031.52	1		0.77045														
031.53	3	3	0.97835	0.08749	0.97835	0.08749	0.03572	8.94%	0.08625	0.02069	0.08870	8.82%	2.11%	9.07%	4.2868	0.01943	4.01%
031.99	6	5	0.83000	0.09950	0.83000	0.09950	0.03146	11.99%	0.09920	0.01095	0.09980	11.95%	1.32%	12.02%	9.1104	0.01200	4.11%
032.02	2	0															
032.08	1		0.79750														
032.31	20	18	0.85343	0.02742	0.84768	0.02448	0.00397	2.89%	0.02603	0.01218	0.02874	3.05%	1.43%	3.37%	2.3599	0.01362	4.10%
032.32	3	2	0.82760	0.08853	28.218	47.442	19.368	168.13%	0.08845	0.00525	0.08861	10.69%	0.63%	10.71%	16.878	0.00440	2.42%
032.41	29	28	0.83400	0.04161	0.84164	0.02469	0.00324	2.93%	0.03881	0.02123	0.04424	4.65%	2.55%	5.30%	2.0841	0.02204	4.10%
032.42	18	16	0.87143	0.04282	0.86386	0.04161	0.00714	4.82%	0.04107	0.01715	0.04450	4.71%	1.97%	5.11%	2.5948	0.02110	4.09%
032.43	16	16	0.85700	0.03573	0.85667	0.03698	0.00654	4.32%	0.03470	0.01202	0.03673	4.05%	1.40%	4.29%	3.0565	0.01200	4.09%
032.44	2	0															
032.52	1		0.79340														
032.53	3	2	0.94000	0.02828	0.93178	0.02455	0.01002	2.63%	0.02828	0.00000	0.02828	3.01%	0.00%	3.01%		0.01230	4.04%
032.99	3	2	0.78000	0.11314	0.80000	0.08718	0.03559	10.90%	0.11314	0.00000	0.11314	14.50%	0.00%	14.50%		0.00667	4.14%
033.00	26	23	0.81576	0.06510	0.81202	0.05261	0.00744	6.48%	0.06456	0.01185	0.06564	7.91%	1.45%	8.05%	5.5379	0.01786	4.13%
033.01	34	30	0.91961	0.04031	0.91819	0.01943	0.00243	2.12%	0.03986	0.00856	0.04076	4.33%	0.93%	4.43%	4.7613	0.00917	4.05%
033.03	3	3	0.74167	0.04856	0.74167	0.04856	0.01983	6.55%	0.04708	0.01683	0.05000	6.35%	2.27%	6.74%	2.9704	0.01667	4.18%
033.05	4	4	0.93750	0.05979	0.93750	0.05979	0.02114	6.38%	0.05690	0.02598	0.06255	6.07%	2.77%	6.67%	2.4075	0.03000	4.04%
033.99	4	4	0.85125	0.05282	0.85125	0.05282	0.01867	6.20%	0.04928	0.02689	0.05613	5.79%	3.16%	6.59%	2.0877	0.02700	4.10%
034.01	3	3	0.44650	0.04469	0.44650	0.04469	0.01824	10.01%	0.04445	0.00644	0.04492	9.96%	1.44%	10.06%	6.9724	0.00900	18.06%
034.04	6	5	0.36600	0.09717	0.36600	0.09717	0.03073	26.55%	0.09712	0.00447	0.09722	26.54%	1.22%	26.56%	21.740	0.00400	18.61%
034.41	1		0.45750														
034.43	1		0.11500														
034.52	1		0.48000														
034.53	6	5	0.58357	0.09690	0.58357	0.09690	0.03064	16.60%	0.09433	0.03131	0.09939	16.16%	5.36%	17.03%	3.1750	0.02982	17.35%
034.99	1		0.46500														
035.01	3	3	0.32300	0.05096	0.32300	0.05096	0.02081	15.78%	0.05085	0.00473	0.05107	15.74%	1.46%	15.81%	10.807	0.00533	4.74%
035.05	4	4	0.31588	0.01359	0.31588	0.01359	0.00481	4.30%	0.01310	0.00511	0.01406	4.15%	1.62%	4.45%	2.7515	0.00575	4.76%
035.31	19	17	0.30844	0.01659	0.31139	0.01456	0.00243	4.68%	0.01608	0.00576	0.01708	5.21%	1.87%	5.54%	2.9646	0.00512	4.77%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fip - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
035.32	4	3	0.29805	0.05814	7.7235	14.851	5.2506	192.28%	0.05795	0.00657	0.05832	19.44%	2.20%	19.57%	8.8746	0.50628	2.94%
035.41	28	26	0.31287	0.01637	0.31300	0.01455	0.00194	4.65%	0.01542	0.00776	0.01726	4.93%	2.48%	5.52%	2.2247	0.00833	4.76%
035.42	15	14	0.30684	0.01436	0.30690	0.01192	0.00225	3.88%	0.01367	0.00621	0.01501	4.46%	2.02%	4.89%	2.4185	0.00606	4.78%
035.43	14	12	0.30894	0.01290	0.30668	0.01287	0.00243	4.20%	0.01254	0.00426	0.01325	4.06%	1.38%	4.29%	3.1083	0.00547	4.78%
035.52	1		0.28110														
035.53	3	3	0.34595	0.02434	0.34595	0.02434	0.00993	7.03%	0.02319	0.01043	0.02543	6.70%	3.02%	7.35%	2.4378	0.01197	4.69%
035.99	3	3	0.53833	0.40885	0.53833	0.40885	0.16691	75.95%	0.40847	0.02483	0.40923	75.88%	4.61%	76.02%	16.479	0.02333	4.39%
036.04	5	4	0.47750	0.02958	0.52250	0.10383	0.03283	19.87%	0.02894	0.00866	0.03021	6.06%	1.81%	6.33%	3.4881	0.10260	4.41%
036.42	15	14	0.45265	0.03776	0.44398	0.02415	0.00441	5.44%	0.03721	0.00908	0.03831	8.22%	2.01%	8.46%	4.2184	0.00969	4.52%
036.43	9	6	0.46175	0.01771	0.45786	0.02174	0.00581	4.75%	0.01771	0.00065	0.01772	3.83%	0.14%	3.84%	27.451	0.00200	4.50%
036.53	1		0.46000														
036.99	2	0															
037.31	20	18	217.96	17.106	217.79	14.826	2.4051	6.81%	17.027	2.3298	17.185	7.81%	1.07%	7.88%	7.3762	3.6586	7.11%
037.32	4	4	195.18	59.605	195.18	59.605	21.073	30.54%	59.377	7.3677	59.832	30.42%	3.77%	30.66%	8.1209	7.3500	7.23%
037.33	3	2	218.94	0.13081	211.80	12.380	5.0542	5.85%		8.7155			3.98%			12.723	7.14%
037.41	26	23	218.35	8.5039	218.01	8.8794	1.2557	4.07%	8.0812	3.7445	8.9066	3.70%	1.71%	4.08%	2.3786	4.0160	7.11%
037.42	16	13	229.06	9.8724	225.62	7.9443	1.4504	3.52%	9.2021	5.0566	10.500	4.02%	2.21%	4.58%	2.0765	6.3720	7.08%
037.43	19	17	217.85	12.249	218.66	14.033	2.3388	6.42%	12.119	2.5171	12.377	5.56%	1.16%	5.68%	4.9172	3.1256	7.11%
037.44	1		217.00														
037.52	1		235.00														
037.53	3	2	233.75	8.8388	235.00	6.6144	2.7003	2.81%	8.8318	0.50000	8.8459	3.78%	0.21%	3.78%	17.692	3.3333	7.03%
037.99	3	3	216.83	13.475	216.83	13.475	5.5013	6.21%	13.323	2.8577	13.626	6.14%	1.32%	6.28%	4.7681	3.6667	7.12%
038.41	2	0															
038.42	3	3	0.65533	0.04858	0.65533	0.04858	0.01983	7.41%		0.22848			34.86%			0.26267	17.05%
038.43	6	4	0.66750	0.33540	0.69000	0.29479	0.09322	42.72%	0.33532	0.01000	0.33547	50.24%	1.50%	50.26%	33.547	0.02400	16.92%
038.52	1		0.77500														
038.53	6	6	0.80547	0.08237	0.80547	0.09340	0.02696	11.60%	0.07930	0.03151	0.08533	9.84%	3.91%	10.59%	2.7081	0.03517	16.53%
040.42	1		5.8000														
040.52	1		5.8000														
040.53	1		5.1575														
041.53	1		0.30500														
042.00	2	0															
101.01	2	0															
101.99	1		2,677.0														
104.00	1		11.350														
104.03	1		14.250														
105.00	2	0															
106.00	1		11.650														

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106.01	1		11.250														
106.02	14	13	11.540	3.2291	11.197	2.9391	0.55544	26.25%	3.2091	0.50814	3.2491	27.81%	4.40%	28.15%	6.3940	0.68922	27.92%
108.01	2	0															
108.02	3	2	2.0200	1.5627	2.7567	1.6879	0.68909	61.23%	1.5626	0.02550	1.5628	77.36%	1.26%	77.37%	61.298	0.14667	34.48%
108.99	1		1.0095														
109.02	15	13	82.340	23.246	80.163	24.014	4.3843	29.96%	23.021	4.5654	23.469	27.96%	5.54%	28.50%	5.1407	5.9228	8.27%
109.99	1		52.400														
120.00	14	12	2.1620	0.05046	2.1523	0.05718	0.01121	2.66%	0.04851	0.01965	0.05234	2.24%	0.91%	2.42%	2.6634	0.02148	3.56%
120.01	1		1.9640														
120.02	2	0															
120.05	4	4	2.0249	0.15461	2.0249	0.15461	0.05466	7.64%	0.14629	0.07075	0.16251	7.22%	3.49%	8.03%	2.2968	0.06975	3.60%
121.00	13	11	1.6690	0.03529	1.6657	0.03938	0.00804	2.36%	0.03399	0.01344	0.03655	2.04%	0.81%	2.19%	2.7190	0.01456	3.70%
121.01	1		1.7665														
121.02	2	0															
121.05	4	3	1.7725	0.06959	1.7238	0.11285	0.03990	6.55%	0.06910	0.01155	0.07006	3.90%	0.65%	3.95%	6.0640	0.10150	3.69%
122.00	14	12	2.5419	0.04128	2.5419	0.03540	0.00694	1.39%	0.03664	0.02691	0.04546	1.44%	1.06%	1.79%	1.6890	0.02853	3.48%
122.01	1		2.5415														
122.02	2	0															
122.05	4	4	2.5776	0.03149	2.5776	0.03149	0.01113	1.22%		0.06479			2.51%			0.08125	3.47%
124.00	15	13	0.48313	0.02593	0.48041	0.02000	0.00378	4.16%	0.02552	0.00654	0.02634	5.28%	1.35%	5.45%	4.0294	0.00759	4.47%
124.01	1		0.45250														
124.02	2	0															
124.05	2	0															
124.99	1		0.30250														
125.00	13	11	5.8253	0.21318	5.7630	0.18972	0.03873	3.29%	0.21177	0.03468	0.21459	3.64%	0.60%	3.68%	6.1884	0.05084	3.07%
125.01	1		5.8480														
125.02	2	0															
125.05	4	4	5.6083	0.17590	5.6083	0.17590	0.06219	3.14%	0.14819	0.13403	0.19981	2.64%	2.39%	3.56%	1.4908	0.14500	3.09%
126.00	13	11	1.6403	0.03369	1.6368	0.03867	0.00789	2.36%	0.03320	0.00805	0.03416	2.02%	0.49%	2.08%	4.2429	0.01134	3.71%
126.01	1		1.6185														
126.02	2	0															
126.05	4	4	1.6430	0.04041	1.6430	0.04041	0.01429	2.46%	0.03630	0.02509	0.04413	2.21%	1.53%	2.69%	1.7589	0.03150	3.71%
127.00	14	12	0.73890	0.02181	0.73564	0.02008	0.00394	2.73%	0.02120	0.00724	0.02240	2.87%	0.98%	3.03%	3.0946	0.00892	4.19%
127.01	1		0.58150														
127.02	2	0															
127.05	4	4	0.73850	0.00928	0.73850	0.00928	0.00328	1.26%		0.02642			3.58%			0.03450	4.19%
128.00	14	12	1.2149	0.04649	1.2183	0.04923	0.00930	4.04%	0.04562	0.01263	0.04734	3.76%	1.04%	3.90%	3.7467	0.01574	3.88%
128.01	1		1.3580														

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128.02	2	0															
128.05	4	4	1.1911	0.09091	1.1911	0.09091	0.03214	7.63%	0.08942	0.02320	0.09238	7.51%	1.95%	7.76%	3.9824	0.02425	3.90%
129.00	13	10	3.4886	0.06477	3.4634	0.09420	0.01923	2.72%	0.06288	0.02197	0.06661	1.80%	0.63%	1.91%	3.0317	0.03354	3.32%
129.01	1		3.4030														
129.02	2	0															
129.05	4	2	3.4588	0.02581	3.3755	0.15150	0.05356	4.49%	0.02565	0.00403	0.02597	0.74%	0.12%	0.75%	6.4415	0.05700	3.33%
130.00	14	12	1.3713	0.03812	1.3646	0.04566	0.00895	3.35%	0.03772	0.00785	0.03853	2.75%	0.57%	2.81%	4.9094	0.01288	3.82%
130.01	1		1.3540														
130.02	2	0															
130.05	6	5	1.3770	0.02796	1.3881	0.04193	0.01210	3.02%	0.01841	0.02975	0.03498	1.34%	2.16%	2.54%	1.1761	0.02600	3.81%
131.00	15	13	0.72432	0.04216	0.72624	0.05165	0.00943	7.11%	0.04153	0.01027	0.04278	5.73%	1.42%	5.91%	4.1648	0.01555	4.20%
131.01	1		0.71650														
131.02	2	0															
131.05	3	3	0.74433	0.06401	0.74433	0.06401	0.02613	8.60%	0.05894	0.03532	0.06871	7.92%	4.75%	9.23%	1.9453	0.04467	4.18%
131.99	1		0.65000														
132.00	14	12	1.6133	0.05390	1.6147	0.05797	0.01183	3.59%	0.05313	0.01286	0.05466	3.29%	0.80%	3.39%	4.2490	0.01495	3.72%
132.01	1		1.6370														
132.02	2	0															
132.05	4	4	1.5916	0.04714	1.5916	0.04714	0.01667	2.96%	0.03748	0.04043	0.05513	2.35%	2.54%	3.46%	1.3637	0.03825	3.73%
133.00	14	11	2.3209	0.07270	2.3104	0.06234	0.01223	2.70%	0.07000	0.02774	0.07530	3.02%	1.20%	3.24%	2.7145	0.04833	3.53%
133.05	4	3	2.3288	0.10862	2.3581	0.10629	0.03758	4.51%	0.10830	0.01187	0.10894	4.65%	0.51%	4.68%	9.1802	0.06025	3.52%
133.99	1		3.1150														
134.00	13	10	1.5275	0.04279	1.5110	0.03977	0.00812	2.63%	0.04117	0.01652	0.04436	2.70%	1.08%	2.90%	2.6858	0.02306	3.76%
134.01	1		1.5530														
134.02	2	0															
134.05	4	4	1.5050	0.08358	1.5050	0.08358	0.02955	5.55%	0.08081	0.03016	0.08626	5.37%	2.00%	5.73%	2.8597	0.03650	3.76%
135.00	14	11	1.1249	0.01534	1.1266	0.01766	0.00361	1.57%	0.01101	0.01511	0.01870	0.98%	1.34%	1.66%	1.2374	0.01583	3.93%
135.01	1		1.1525														
135.02	2	0															
135.05	4	4	1.1101	0.03506	1.1101	0.03506	0.01240	3.16%	0.03402	0.01199	0.03607	3.06%	1.08%	3.25%	3.0073	0.01325	3.94%
136.00	3	3	0.26810	0.06871	0.26810	0.06871	0.02805	25.63%	0.06797	0.01429	0.06945	25.35%	5.33%	25.91%	4.8587	0.01553	4.88%
136.01	4	4	0.26863	0.03185	0.26863	0.03185	0.01126	11.86%	0.03179	0.00281	0.03191	11.83%	1.04%	11.88%	11.372	0.00375	4.87%
136.02	2	0															
136.03	3	3	0.28700	0.00377	0.28700	0.00377	0.00154	1.32%	0.00290	0.00342	0.00448	1.01%	1.19%	1.56%	1.3120	0.00467	4.83%
136.99	1		0.31500														
137.00	10	9	1.2053	0.11924	1.2276	0.05257	0.01176	4.28%	0.11655	0.03560	0.12187	9.67%	2.95%	10.11%	3.4237	0.03430	3.88%
137.01	1		1.2825														
137.02	2	0															



Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sR	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
137.05	4	4	1.0783	0.10253	1.0783	0.10253	0.03625	9.51%	0.09993	0.03248	0.10507	9.27%	3.01%	9.74%	3.2352	0.03900	3.95%
138.00	14	13	1.4262	0.06461	1.4301	0.02422	0.00458	1.69%	0.06217	0.02487	0.06696	4.36%	1.74%	4.70%	2.6922	0.02721	3.79%
138.01	1		1.6870														
138.02	2	0															
138.05	4	4	1.4393	0.13095	1.4393	0.13095	0.04630	9.10%	0.13063	0.01284	0.13126	9.08%	0.89%	9.12%	10.227	0.01650	3.79%
139.00	4	3	0.10900	0.01752	0.16300	0.10894	0.03852	66.84%	0.01641	0.00868	0.01857	15.06%	7.96%	17.03%	2.1390	0.04500	5.26%
139.02	2	0															
139.05	1		0.12850														
139.99	1		0.10850														
160.99	4	3	0.03898	0.03382	0.07461	0.07642	0.02702	102.42%	0.03381	0.00124	0.03383	86.72%	3.19%	86.78%	27.246	0.00413	5.91%
161.99	2	0															
162.99	3	2	0.01040	0.01471	0.01443	0.01253	0.00511	86.80%	0.01471	0.00010	0.01471	141.42%	0.96%	141.42%	147.08	0.00107	7.57%
163.99	3	0			0.00000	0.00000	0.00000									0.00000	#DIV/0!
164.99	3	2	0.00000	0.00000	0.06333	0.10970	0.04478	173.21%	0.00000	0.00000	0.00000					0.01333	6.06%
165.99	6	6	2.0590	0.25831	2.0537	0.26087	0.07531	12.70%	0.25653	0.04282	0.26008	12.46%	2.08%	12.63%	6.0732	0.04567	3.59%
166.99	1		0.25700														
167.99	1		1.1300														
200.99	1		0.03000														
210.99	1		3.1950														
400.01	3	3	0.37787	0.07862	0.37787	0.07862	0.03210	20.81%	0.07855	0.00444	0.07868	20.79%	1.18%	20.82%	17.709	0.00527	#DIV/0!
516.00	3	2	0.09095	0.01280	0.08230	0.01750	0.00715	21.27%	0.01279	0.00050	0.01280	14.07%	0.55%	14.08%	25.607	0.00367	23.29%
516.53	6	4	0.11038	0.01994	0.09852	0.02980	0.00860	30.24%	0.01962	0.00509	0.02026	17.77%	4.61%	18.36%	3.9839	0.00992	22.67%
518.33	1		0.06000														
518.34	2	0															
518.41	3	2	0.02500	0.00707	0.02683	0.00592	0.00242	22.07%	0.00707	0.00000	0.00707	28.28%	0.00%	28.28%		0.00200	27.57%
518.43	1		0.00000														
518.53	6	6	0.02270	0.00271	0.02301	0.00208	0.00060	9.05%		0.00499			21.99%			0.00520	28.22%
520.31	1		3.2150														
520.41	2	0															
520.43	1		0.78500														
520.52	1		0.66500														
520.53	4	4	1.7234	0.47549	1.7234	0.47549	0.16811	27.59%	0.33830	0.47253	0.58115	19.63%	27.42%	33.72%	1.2299	0.51695	14.74%
520.99	1		3.2440														
526.31	1		2.2200														
526.34	2	0															
526.41	2	0															
526.43	1		1.4000														
526.52	1		1.4000														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
526.53	6	6	1.3507	0.15492	1.3756	0.12008	0.03466	8.73%	0.14830	0.06336	0.16127	10.98%	4.69%	11.94%	2.5454	0.07378	15.25%
529.00	2	0															
529.99	2	0															
539.41	2	0															
539.52	1		3.1500														
539.53	3	3	2.6293	0.18580	2.6293	0.18580	0.07585	7.07%	0.15300	0.14908	0.21362	5.82%	5.67%	8.12%	1.4329	0.19190	13.83%
600.01	1		1.9400														
600.03	1		3.5000														
600.12	1		2.3500														
600.20	1		0.00000														
620.04	1		100.00														