

AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201225

Dry Cat 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 %rds	Reproducibility %RSD	sR/sr	Average Range (R-bar)
000.01	2	2	0.25000	0.35355												
001.00	11	8	7.3767	0.25378	7.3767	0.28778	0.07195	3.90%	0.23540	0.13410	0.27091	3.19%	1.82%	3.67%	2.0202	0.13563
001.03	26	25	7.2690	0.13761	7.2801	0.11380	0.01609	1.56%	0.13651	0.02449	0.13869	1.88%	0.34%	1.91%	5.6624	0.02334
001.05	2	2	7.4350	0.37477												
001.07	38	36	7.2099	0.37230	7.2470	0.23524	0.02772	3.25%	0.35664	0.15112	0.38734	4.95%	2.10%	5.37%	2.5632	0.14060
001.08	4	4	28.578	42.735	28.578	42.735	15.109	149.54%	42.735	0.13407	42.735	149.54%	0.47%	149.54%	318.75	0.17000
001.99	20	18	7.0925	0.52793	7.2162	0.28758	0.04793	3.99%	0.52379	0.09335	0.53204	7.39%	1.32%	7.50%	5.6995	0.10944
002.00	6	6	27.872	10.622	32.003	0.72408	0.20903	2.26%	10.622	0.06671	10.622	38.11%	0.24%	38.11%	159.23	0.07333
002.01	14	13	32.008	0.29645	32.035	0.26885	0.05273	0.84%	0.28473	0.11671	0.30772	0.89%	0.36%	0.96%	2.6365	0.11214
002.02	7	7	32.026	0.32735	32.121	0.10944	0.02925	0.34%	0.32516	0.05336	0.32951	1.02%	0.17%	1.03%	6.1748	0.06541
002.04	7	6	32.395	3.4828	31.939	1.6770	0.48410	5.25%	3.4808	0.16432	3.4847	10.74%	0.51%	10.76%	21.207	0.18667
002.05	51	50	32.227	0.32889	32.236	0.32551	0.03255	1.01%	0.31920	0.11205	0.33830	0.99%	0.35%	1.05%	3.0190	0.09543
002.06	224	137	32.437	0.48643	32.472	0.26418	0.01596	0.81%	0.46813	0.18688	0.50406	1.44%	0.58%	1.55%	2.6972	0.17277
002.07	1		29.860													
002.08	3	3	32.333	0.34034	32.333	0.34034	0.13894	1.05%	0.33292	0.10000	0.34761	1.03%	0.31%	1.08%	3.4761	0.13333
002.10	2	2	32.288	0.00955												
002.11	8	8	32.485	1.1979	32.732	0.85556	0.21389	2.61%	1.1904	0.18900	1.2053	3.66%	0.58%	3.71%	6.3773	0.20438
002.99	3	3	31.967	0.24507	31.967	0.24507	0.10005	0.77%		0.36171			1.13%			0.34000
003.00	20	19	7.9967	1.0127	7.7429	0.32689	0.05303	4.22%	1.0088	0.12666	1.0167	12.61%	1.58%	12.71%	8.0271	0.13013
003.01	1		7.5000													
003.05	1		7.6500													
003.06	17	16	7.5400	0.13063	7.5520	0.10699	0.01891	1.42%	0.11329	0.09196	0.14592	1.50%	1.22%	1.94%	1.5868	0.06625
003.09	19	18	7.7274	0.42251	7.6355	0.15676	0.02613	2.05%	0.42130	0.04526	0.42372	5.45%	0.59%	5.48%	9.3613	0.05268
003.10	37	32	7.5184	0.20779	7.5039	0.17243	0.02155	2.30%	0.19808	0.08882	0.21708	2.63%	1.18%	2.89%	2.4441	0.08150
003.11	8	8	9.1426	2.0869	9.1426	2.3666	0.59164	25.89%	2.0858	0.09798	2.0881	22.81%	1.07%	22.84%	21.311	0.10513
003.12	23	23	7.7331	0.35504	7.7017	0.25335	0.03735	3.29%	0.35313	0.05212	0.35695	4.57%	0.67%	4.62%	6.8489	0.05969
003.13	7	7	8.2405	1.1970	7.6817	0.28295	0.07562	3.68%	1.1955	0.08639	1.1986	14.51%	1.05%	14.55%	13.874	0.09671

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003.14	22	22	7.4057	0.32942	7.4371	0.21367	0.03221	2.87%	0.31251	0.14737	0.34551	4.22%	1.99%	4.67%	2.3446	0.13391
003.99	11	8	8.3787	0.99093	8.3534	1.0810	0.27024	12.94%	0.98989	0.06423	0.99197	11.81%	0.77%	11.84%	15.445	0.07750
004.00	27	27	1.6917	0.46700	1.6277	0.35561	0.04839	21.85%	0.46256	0.09083	0.47140	27.34%	5.37%	27.87%	5.1899	0.09593
004.01	2	2	2.2825	0.51972												
004.03	2	2	1.1275	0.24395												
004.06	49	47	1.6541	0.41473	1.6344	0.33694	0.03475	20.62%	0.41107	0.07776	0.41836	24.85%	4.70%	25.29%	5.3798	0.06318
004.07	58	56	1.6907	0.53551	1.5911	0.34836	0.03292	21.89%	0.52827	0.12410	0.54265	31.25%	7.34%	32.10%	4.3728	0.13049
004.11	6	6	2.2477	0.64476	2.1799	0.58150	0.16786	26.68%	0.64109	0.09717	0.64841	28.52%	4.32%	28.85%	6.6731	0.09833
004.99	3	3	1.2833	0.27260	1.2833	0.27260	0.11129	21.24%		0.42028			32.75%			0.42000
005.00	198	120	6.6998	0.12461	6.7092	0.08260	0.00533	1.23%	0.11812	0.05613	0.13077	1.76%	0.84%	1.95%	2.3300	0.05371
005.02	2	2	6.8175	0.01768												
005.05	33	32	6.7648	0.13576	6.7502	0.07800	0.00975	1.16%	0.13451	0.02598	0.13699	1.99%	0.38%	2.03%	5.2735	0.02423
005.11	4	4	6.7374	2.7626	6.7374	2.7626	0.97671	41.00%	2.7625	0.02147	2.7626	41.00%	0.32%	41.00%	128.65	0.02825
005.99	10	10	6.6195	0.37200	6.6926	0.10967	0.02452	1.64%	0.36998	0.05473	0.37401	5.59%	0.83%	5.65%	6.8342	0.05900
006.00	3	3	2.2265	1.2072	2.2265	1.2072	0.49282	54.22%	1.2053	0.09454	1.2090	54.13%	4.25%	54.30%	12.789	0.11167
006.01	1		2.4500													
006.99	2	2	1.6723	1.0999												
008.02	12	12	4.3825	1.6505	4.0479	0.97127	0.19826	23.99%	1.6472	0.14877	1.6539	37.58%	3.39%	37.74%	11.117	0.16500
008.05	2	2	4.8040	0.57134												
008.08	29	28	4.3301	2.0415	3.9996	1.2189	0.16288	30.48%	2.0369	0.19382	2.0461	47.04%	4.48%	47.25%	10.557	0.19644
008.99	4	4	5.7463	1.4000	5.7463	1.4000	0.49499	24.36%	1.3911	0.22375	1.4090	24.21%	3.89%	24.52%	6.2971	0.24750
009.04	1		13.370													
009.07	11	10	13.161	6.7350	11.484	1.9884	0.44461	17.31%	6.7307	0.34186	6.7394	51.14%	2.60%	51.21%	19.714	0.34910
009.09	26	26	10.122	2.0264	9.9193	1.6872	0.23398	17.01%	1.9928	0.51971	2.0594	19.69%	5.13%	20.35%	3.9626	0.49276
009.99	2	2	14.898	12.385												
010.03	5	5	6.4023	1.2146	6.4023	1.2146	0.38408	18.97%	1.2020	0.24597	1.2270	18.78%	3.84%	19.16%	4.9882	0.27900
010.11	5	5	7.3803	0.60134	7.3803	0.60134	0.19016	8.15%	0.59818	0.08713	0.60449	8.11%	1.18%	8.19%	6.9374	0.07300
010.99	18	18	7.1585	0.49586	7.1546	0.36532	0.06089	5.11%	0.49406	0.05968	0.49765	6.90%	0.83%	6.95%	8.3383	0.06326
011.01	163	86	7.7728	0.29550	7.8034	0.25373	0.01935	3.25%	0.29063	0.07554	0.30029	3.74%	0.97%	3.86%	3.9751	0.08344
011.02	3	2	7.7800	0.15556	7.7800	0.15556	0.07778	2.00%		0.26926			3.46%			0.33000
011.99	4	4	7.6600	0.34417	7.6600	0.34417	0.12168	4.49%	0.34185	0.05635	0.34646	4.46%	0.74%	4.52%	6.1487	0.06000
012.00	10	10	32.871	0.44483	32.857	0.47277	0.10571	1.44%	0.37487	0.33866	0.50519	1.14%	1.03%	1.54%	1.4917	0.36200
012.01	4	4	30.150	1.3147	30.150	1.3147	0.46480	4.36%	1.2072	0.73624	1.4140	4.00%	2.44%	4.69%	1.9205	0.84940
012.03	4	4	28.208	3.6366	28.208	3.6366	1.2857	12.89%	3.6226	0.45058	3.6505	12.84%	1.60%	12.94%	8.1018	0.47000
012.04	8	7	33.363	5.7927	31.334	0.87914	0.23496	2.81%	5.7906	0.22216	5.7949	17.36%	0.67%	17.37%	26.084	0.21143
012.11	5	5	30.615	3.2203	30.615	3.2203	1.0183	10.52%	3.2192	0.11498	3.2213	10.52%	0.38%	10.52%	28.017	0.13720
013.00	24	22	10.455	0.70743	10.461	0.41192	0.06210	3.94%	0.69016	0.21976	0.72430	6.60%	2.10%	6.93%	3.2959	0.22684
013.02	111	39	10.742	0.30780	10.752	0.22598	0.02559	2.10%	0.29090	0.14226	0.32382	2.71%	1.32%	3.01%	2.2763	0.13654

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013.03	1		8.3600													
013.10	17	16	10.057	0.72653	10.181	0.35575	0.06289	3.49%	0.72157	0.11993	0.73147	7.17%	1.19%	7.27%	6.0991	0.10759
013.12	1		9.8000													
013.13	5	5	10.831	0.42589	10.831	0.42589	0.13468	3.93%	0.30298	0.42328	0.52054	2.80%	3.91%	4.81%	1.2298	0.55450
015.41	5	5	56.639	8.3038	56.639	8.3038	2.6259	14.66%	8.2445	1.4012	8.3627	14.56%	2.47%	14.77%	5.9680	1.3840
015.42	3	3	62.567	0.93586	62.567	0.93586	0.38206	1.50%	0.51072	1.1091	1.2210	0.82%	1.77%	1.95%	1.1009	1.4667
015.43	4	4	62.589	4.9839	62.589	4.9839	1.7621	7.96%	4.6748	2.4434	5.2749	7.47%	3.90%	8.43%	2.1588	2.8275
015.52	1		65.025													
015.53	1		70.000													
016.00	1		0.11350													
016.42	1		0.00000													
016.52	1		0.14000													
016.53	1		0.00200													
017.41	2	2	7.4825	0.28638												
017.42	4	4	6.0775	4.2248	6.0775	4.2248	1.4937	69.52%	4.2179	0.33985	4.2316	69.40%	5.59%	69.63%	12.451	0.36000
017.43	5	5	5.9290	0.83491	5.9290	0.83491	0.26402	14.08%	0.79948	0.34028	0.86889	13.48%	5.74%	14.65%	2.5534	0.35400
017.53	1		7.8000													
018.34	1		0.05550													
018.42	1		0.00000													
018.52	1		0.07150													
018.53	1		0.06020													
019.00	36	34	1.2965	0.06793	1.2920	0.06070	0.00736	4.70%	0.06722	0.01383	0.06863	5.19%	1.07%	5.29%	4.9641	0.01510
019.02	1		1.2500													
019.03	5	5	1.3662	0.05604	1.3662	0.05604	0.01772	4.10%	0.05141	0.03155	0.06032	3.76%	2.31%	4.42%	1.9120	0.03944
019.08	11	11	1.3152	0.06076	1.3170	0.05280	0.01126	4.01%	0.05988	0.01453	0.06162	4.55%	1.11%	4.69%	4.2398	0.01518
019.31	33	32	1.2847	0.09160	1.2985	0.04321	0.00540	3.33%	0.09056	0.01943	0.09262	7.05%	1.51%	7.21%	4.7664	0.01939
019.32	8	7	1.2964	0.04600	1.3047	0.03267	0.00873	2.50%	0.04447	0.01663	0.04748	3.43%	1.28%	3.66%	2.8555	0.01883
019.33	4	4	1.3913	0.04131	1.3913	0.04131	0.01460	2.97%	0.03708	0.02574	0.04514	2.67%	1.85%	3.24%	1.7537	0.03250
019.41	39	38	1.3002	0.06800	1.3066	0.05780	0.00663	4.42%	0.06611	0.02252	0.06984	5.08%	1.73%	5.37%	3.1015	0.02228
019.42	20	20	1.3696	0.07632	1.3616	0.05656	0.00894	4.15%	0.06997	0.04308	0.08217	5.11%	3.15%	6.00%	1.9072	0.03976
019.43	18	17	1.3251	0.11011	1.3209	0.10519	0.01804	7.96%	0.10712	0.03606	0.11302	8.08%	2.72%	8.53%	3.1347	0.03540
019.52	2	2	1.2965	0.14641												
019.53	4	4	1.3168	0.04085	1.3168	0.04085	0.01444	3.10%	0.04011	0.01098	0.04158	3.05%	0.83%	3.16%	3.7881	0.00950
019.99	3	3	1.1450	0.14731	1.1450	0.14731	0.06014	12.87%	0.12810	0.10288	0.16429	11.19%	8.98%	14.35%	1.5970	0.09667
020.41	2	2	3.3446	0.36115												
020.42	2	2	1.2250	1.7324												
020.43	3	3	4.9333	1.9935	4.9333	1.9935	0.81383	40.41%	1.2096	2.2409	2.5465	24.52%	45.42%	51.62%	1.1364	2.1000
020.52	1		3.9700													

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020.53	1		1.7460													
021.31	2	2	1.4750	0.17678												
021.33	1		0.92800													
021.41	4	4	1.2466	0.27157	1.2466	0.27157	0.09601	21.78%	0.27026	0.03768	0.27287	21.68%	3.02%	21.89%	7.2410	0.03975
021.42	4	4	1.2620	0.42857	1.2620	0.42857	0.15152	33.96%	0.42592	0.06734	0.43121	33.75%	5.34%	34.17%	6.4036	0.08850
021.43	8	8	1.4249	0.16762	1.4781	0.08547	0.02137	5.78%	0.16246	0.05838	0.17263	11.40%	4.10%	12.11%	2.9572	0.06938
021.52	1		1.4315													
021.53	3	3	0.77650	0.47886	0.77650	0.47886	0.19549	61.67%	0.47760	0.04901	0.48011	61.51%	6.31%	61.83%	9.7972	0.04100
022.31	18	17	14.401	1.0760	14.369	1.0546	0.18086	7.34%	1.0114	0.51931	1.1369	7.02%	3.61%	7.89%	2.1893	0.55571
022.32	3	3	14.898	4.4661	14.898	4.4661	1.8233	29.98%	4.4194	0.91105	4.5123	29.66%	6.12%	30.29%	4.9529	0.99667
022.33	1		16.635													
022.41	29	28	13.922	2.3625	14.130	1.1506	0.15376	8.14%	2.2559	0.99241	2.4645	16.20%	7.13%	17.70%	2.4834	0.91946
022.42	19	19	14.756	2.1649	14.800	1.6041	0.26021	10.84%	1.9901	1.2055	2.3267	13.49%	8.17%	15.77%	1.9301	1.2015
022.43	16	15	13.032	1.9445	13.422	0.91791	0.16759	6.84%	1.9245	0.39414	1.9644	14.77%	3.02%	15.07%	4.9841	0.43337
022.44	1		12.700													
022.52	1		13.782													
022.53	3	3	14.250	1.6210	14.250	1.6210	0.66175	11.38%	1.6073	0.29721	1.6345	11.28%	2.09%	11.47%	5.4996	0.30000
022.99	2	2	13.176	3.0766												
025.31	20	19	370.33	41.650	375.65	28.175	4.5705	7.50%	41.339	7.1836	41.958	11.16%	1.94%	11.33%	5.8408	8.1270
025.32	3	3	396.61	6.5431	396.61	6.5431	2.6712	1.65%	5.7181	4.4978	7.2751	1.44%	1.13%	1.83%	1.6175	4.1567
025.33	1		303.38													
025.41	30	29	386.48	28.694	383.15	16.604	2.1802	4.33%	27.670	10.744	29.683	7.16%	2.78%	7.68%	2.7627	10.978
025.42	17	17	388.35	73.359	392.99	65.816	11.287	16.75%	71.466	23.415	75.204	18.40%	6.03%	19.36%	3.2117	23.918
025.43	16	15	390.85	32.456	391.00	36.487	6.6617	9.33%	29.071	20.411	35.521	7.44%	5.22%	9.09%	1.7402	18.008
025.52	1		355.58													
025.53	2	2	380.00	0.00000												
025.99	2	2	358.27	17.346												
026.31	1		1.5000													
026.34	1		0.06550													
026.42	1		0.00000													
026.52	1		0.13850													
026.53	1		0.12500													
027.31	16	15	0.11893	0.00592	0.11872	0.00543	0.00099	4.57%	0.00425	0.00583	0.00722	3.57%	4.91%	6.07%	1.2370	0.00319
027.32	5	5	0.12359	0.00591	0.12359	0.00591	0.00187	4.78%	0.00591	0.00035	0.00592	4.78%	0.28%	4.79%	17.008	0.00022
027.33	1		1,009.0													
027.34	1		0.10650													
027.41	26	26	0.12368	0.01269	0.12147	0.00707	0.00098	5.82%	0.01239	0.00386	0.01298	10.02%	3.12%	10.49%	3.3654	0.00352
027.42	17	17	0.12088	0.00957	0.12046	0.00823	0.00141	6.83%	0.00908	0.00429	0.01004	7.51%	3.55%	8.31%	2.3428	0.00403

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rstd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
027.43	14	13	0.11501	0.00697	0.11548	0.00681	0.00134	5.90%	0.00638	0.00399	0.00752	5.55%	3.47%	6.54%	1.8876	0.00403
027.52	1		0.10375													
027.53	2	2	0.11925	0.00106												
027.99	1		0.16500													
028.31	16	16	24.336	3.2573	25.082	1.9647	0.34731	7.83%	3.1825	0.98188	3.3305	13.08%	4.03%	13.69%	3.3920	0.93031
028.32	3	3	26.582	6.0046	26.582	6.0046	2.4514	22.59%	5.8345	2.0067	6.1700	21.95%	7.55%	23.21%	3.0747	2.1633
028.33	1		24.225													
028.41	31	30	25.355	2.0425	25.196	1.4923	0.19265	5.92%	1.9930	0.63231	2.0909	7.86%	2.49%	8.25%	3.3067	0.71517
028.42	18	18	27.492	2.2578	27.420	1.6981	0.28301	6.19%	2.0367	1.3779	2.4590	7.41%	5.01%	8.94%	1.7847	1.2926
028.43	16	15	24.363	2.9104	24.971	1.4117	0.25773	5.65%	2.8747	0.64311	2.9457	11.80%	2.64%	12.09%	4.5805	0.75917
028.52	1		19.964													
028.53	3	3	25.848	2.4095	25.848	2.4095	0.98366	9.32%	2.3823	0.51031	2.4363	9.22%	1.97%	9.43%	4.7742	0.58333
028.99	1		24.646													
029.99	3	3	0.00115	0.00100	0.00115	0.00100	0.00041	87.28%	0.00099	0.00020	0.00101	86.37%	17.75%	88.18%	4.9679	0.00017
031.01	74	72	1.0043	0.03455	1.0061	0.02948	0.00246	2.93%	0.03333	0.01284	0.03572	3.32%	1.28%	3.56%	2.7812	0.01230
031.02	4	4	1.0252	0.02427	1.0252	0.02427	0.00858	2.37%	0.02385	0.00636	0.02468	2.33%	0.62%	2.41%	3.8780	0.00873
031.03	8	8	1.0082	0.03801	0.99908	0.01964	0.00491	1.97%	0.03722	0.01092	0.03879	3.69%	1.08%	3.85%	3.5532	0.01158
031.04	1		1.0300													
031.06	3	3	0.98083	0.09684	0.98083	0.09684	0.03953	9.87%	0.09561	0.02170	0.09804	9.75%	2.21%	10.00%	4.5184	0.02500
031.41	38	37	1.0096	0.05015	1.0080	0.04230	0.00492	4.20%	0.04825	0.01931	0.05197	4.78%	1.91%	5.15%	2.6920	0.01877
031.42	21	21	1.0165	0.04188	1.0142	0.02105	0.00325	2.08%	0.03196	0.03826	0.04985	3.14%	3.76%	4.90%	1.3030	0.03946
031.43	18	17	1.0048	0.05307	1.0038	0.05489	0.00941	5.47%	0.05075	0.02194	0.05529	5.05%	2.18%	5.50%	2.5197	0.02491
031.52	1		0.74160													
031.53	3	3	0.97900	0.05885	0.97900	0.05885	0.02402	6.01%	0.05859	0.00770	0.05910	5.99%	0.79%	6.04%	7.6724	0.00867
031.99	5	5	0.98800	0.15259	0.98800	0.15259	0.04825	15.44%	0.15176	0.02236	0.15340	15.36%	2.26%	15.53%	6.8604	0.02400
032.02	4	4	0.71213	0.07693	0.71213	0.07693	0.02720	10.80%	0.07681	0.00597	0.07704	10.79%	0.84%	10.82%	12.908	0.00775
032.31	20	20	0.66995	0.06418	0.68129	0.03690	0.00583	5.42%	0.06290	0.01803	0.06543	9.39%	2.69%	9.77%	3.6292	0.01814
032.32	3	3	0.70167	0.04311	0.70167	0.04311	0.01760	6.14%	0.04262	0.00913	0.04359	6.07%	1.30%	6.21%	4.7749	0.01000
032.33	1		0.66250													
032.41	24	24	0.70135	0.05914	0.69644	0.04861	0.00702	6.98%	0.05777	0.01792	0.06049	8.24%	2.56%	8.62%	3.3750	0.01685
032.42	17	17	0.71615	0.04774	0.71250	0.04582	0.00786	6.43%	0.04394	0.02641	0.05126	6.14%	3.69%	7.16%	1.9413	0.02558
032.43	14	14	0.70260	0.05126	0.69408	0.03448	0.00652	4.97%	0.05022	0.01449	0.05227	7.15%	2.06%	7.44%	3.6081	0.01582
032.44	1		0.68000													
032.52	1		0.66735													
032.53	3	3	2.8295	3.7418	2.8295	3.7418	1.5276	132.24%	3.7417	0.04156	3.7419	132.24%	1.47%	132.25%	90.047	0.03967
032.99	1		30.815													
033.00	38	37	0.90898	0.13140	0.93015	0.08946	0.01040	9.62%	0.13067	0.01952	0.13212	14.38%	2.15%	14.54%	6.7671	0.01930
033.01	37	37	1.0202	0.08832	1.0344	0.02417	0.00281	2.34%	0.08801	0.01034	0.08862	8.63%	1.01%	8.69%	8.5742	0.01018

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033.03	4	4	0.82125	0.13344	0.82125	0.13344	0.04718	16.25%	0.12826	0.05208	0.13843	15.62%	6.34%	16.86%	2.6579	0.06250
033.05	1		1.0500													
033.99	7	7	0.97229	0.21961	0.97229	0.24904	0.06656	25.61%	0.21641	0.05285	0.22277	22.26%	5.44%	22.91%	4.2153	0.04714
034.01	1		0.75650													
034.04	3	3	0.68167	0.07286	0.68167	0.07286	0.02974	10.69%	0.07211	0.01472	0.07360	10.58%	2.16%	10.80%	5.0000	0.01667
034.42	1		0.00000													
034.52	1		0.68200													
034.53	1		0.82000													
035.01	4	4	0.49200	0.01525	0.49200	0.01525	0.00539	3.10%	0.01440	0.00711	0.01606	2.93%	1.44%	3.26%	2.2599	0.00550
035.05	7	7	0.49397	0.02674	0.50296	0.01385	0.00370	2.75%	0.02623	0.00740	0.02725	5.31%	1.50%	5.52%	3.6813	0.00831
035.31	23	22	0.48454	0.05998	0.48656	0.03017	0.00455	6.20%	0.05941	0.01167	0.06054	12.26%	2.41%	12.49%	5.1879	0.01170
035.32	5	5	0.52618	0.07251	0.52618	0.07251	0.02293	13.78%	0.06963	0.02864	0.07529	13.23%	5.44%	14.31%	2.6291	0.02004
035.33	1		0.47950													
035.41	31	31	0.49769	0.02381	0.49754	0.02422	0.00308	4.87%	0.02082	0.01634	0.02647	4.18%	3.28%	5.32%	1.6199	0.01701
035.42	18	18	0.50196	0.04485	0.50573	0.03048	0.00508	6.03%	0.04336	0.01625	0.04630	8.64%	3.24%	9.22%	2.8488	0.01534
035.43	14	13	0.49756	0.03718	0.49357	0.02366	0.00464	4.79%	0.03649	0.01005	0.03785	7.33%	2.02%	7.61%	3.7658	0.01244
035.52	1		0.47315													
035.53	2	2	0.49600	0.00566												
035.99	1		13.165													
036.00	1		0.64500													
036.04	4	4	0.64875	0.07432	0.64875	0.07432	0.02627	11.46%	0.07402	0.00935	0.07461	11.41%	1.44%	11.50%	7.9762	0.01250
036.42	19	18	0.63588	0.02356	0.63788	0.02125	0.00354	3.33%	0.02178	0.01269	0.02521	3.43%	2.00%	3.96%	1.9863	0.01149
036.43	10	10	0.60958	0.05919	0.62237	0.03445	0.00770	5.54%	0.05868	0.01098	0.05970	9.63%	1.80%	9.79%	5.4389	0.01213
036.53	1		0.57000													
036.99	1		0.59500													
037.31	23	23	175.32	12.658	176.68	8.8697	1.3078	5.02%	12.478	3.0070	12.835	7.12%	1.72%	7.32%	4.2684	3.1861
037.32	4	4	181.34	8.8865	181.34	8.8865	3.1418	4.90%	8.8068	1.6790	8.9654	4.86%	0.93%	4.94%	5.3396	1.6400
037.33	4	4	177.72	11.503	177.72	11.503	4.0668	6.47%	11.450	1.5597	11.556	6.44%	0.88%	6.50%	7.4086	1.6375
037.41	33	32	177.24	12.447	178.20	11.630	1.4538	6.53%	12.234	3.2447	12.657	6.90%	1.83%	7.14%	3.9007	3.4825
037.42	19	18	185.94	7.9862	185.07	7.2672	1.2112	3.93%	6.5046	6.5528	9.2330	3.50%	3.52%	4.97%	1.4090	5.7772
037.43	18	17	183.84	14.844	182.75	14.536	2.4930	7.95%	14.660	3.2968	15.026	7.97%	1.79%	8.17%	4.5578	3.4522
037.52	2	2	154.70	21.146												
037.53	4	4	183.38	26.656	183.38	26.656	9.4245	14.54%	26.153	7.2887	27.150	14.26%	3.97%	14.81%	3.7250	7.2500
037.99	2	2	179.55	14.072												
038.41	1		1.1160													
038.42	4	4	1.1846	0.44240	1.1846	0.44240	0.15641	37.35%	0.43878	0.07986	0.44599	37.04%	6.74%	37.65%	5.5846	0.08525
038.43	8	8	1.0881	0.61575	0.96075	0.39215	0.09804	40.82%	0.59920	0.20055	0.63187	55.07%	18.43%	58.07%	3.1507	0.19875
038.52	1		1.0500													

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038.53	1		1.0100													
039.31	1		2.2850													
039.41	1		2.9205													
039.42	2	2	2.4075	1.1208												
039.43	1		4.9450													
039.52	1		3.1305													
039.53	1		2.7060													
040.42	1		5.1500													
040.43	1		4.9900													
041.42	1		0.00000													
057.99	1		0.00630													
101.02	2	2	827.50	11.314												
102.01	2	2	33.082	13.460												
102.02	1		0.00785													
103.01	2	2	6.6175	0.44901												
104.00	1		3.4200													
104.03	4	4	2.7613	0.23690	2.7613	0.23690	0.08376	8.58%	0.22114	0.12016	0.25168	8.01%	4.35%	9.11%	2.0946	0.13250
105.00	5	5	9.8360	6.4302	9.8360	6.4302	2.0334	65.37%	6.4282	0.22490	6.4321	65.35%	2.29%	65.39%	28.600	0.28400
105.01	1		12.400													
106.00	1		5.7500													
106.01	2	2	5.4725	0.37830												
106.02	22	21	466.99	2,111.0	6.1038	1.6202	0.25000	26.54%	2,111.0	0.24656	2,111.0	452.04%	0.05%	452.04%	8,561.5	0.23541
106.99	1		2.8700													
107.00	1		13.700													
107.99	1		27.317													
108.01	2	2	0.38675	0.54695												
108.02	5	5	0.94030	1.4946	0.94030	1.4946	0.47263	158.95%	1.4872	0.21014	1.5020	158.16%	22.35%	159.73%	7.1475	0.15280
108.99	1		43.850													
109.00	1		87.000													
109.02	19	19	56.976	14.733	55.896	12.391	2.0101	22.17%	14.624	2.5311	14.842	25.67%	4.44%	26.05%	5.8638	2.7484
110.99	1		15.225													
112.00	1		5.6600													
112.99	1		14.310													
113.01	2	2	1.3650	1.0748												
113.99	2	2	2.1563	0.97404												
114.01	2	2	0.25900	0.01556												
114.99	1		0.47295													
120.00	19	18	2.0915	0.14045	2.0540	0.05268	0.00878	2.56%	0.13956	0.02234	0.14133	6.67%	1.07%	6.76%	6.3272	0.02504

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120.02	2	2	2.0935	0.09044												
120.05	2	2	2.0628	0.03429												
120.99	1		2.0400													
121.00	19	18	1.8442	0.05536	1.8390	0.03837	0.00640	2.09%	0.05299	0.02267	0.05764	2.87%	1.23%	3.13%	2.5428	0.01646
121.01	1		1.9940													
121.02	2	2	1.9830	0.13654												
121.05	2	2	1.7243	0.10006												
121.99	1		1.7000													
122.00	19	19	2.4781	0.06802	2.4718	0.04569	0.00741	1.85%	0.06438	0.03104	0.07147	2.60%	1.25%	2.88%	2.3029	0.03096
122.01	1		2.5735													
122.02	2	2	2.5478	0.05335												
122.05	2	2	2.5268	0.32562												
122.99	1		2.4000													
123.99	2	2	5.0450	0.14142												
124.00	19	19	0.63699	0.03463	0.63656	0.03840	0.00623	6.03%	0.03404	0.00902	0.03522	5.34%	1.42%	5.53%	3.9062	0.01077
124.01	1		0.62000													
124.02	2	2	0.67708	0.08072												
124.05	1		0.64500													
124.99	1		0.46000													
125.00	17	17	5.0847	0.21069	5.1025	0.19065	0.03270	3.74%	0.20791	0.04817	0.21342	4.09%	0.95%	4.20%	4.4304	0.04620
125.01	2	2	2.8183	3.9644												
125.02	2	2	5.1771	0.03026												
125.05	2	2	5.1638	0.46704												
126.00	19	18	1.9781	0.05532	1.9808	0.05421	0.00904	2.74%	0.05171	0.02781	0.05871	2.61%	1.41%	2.97%	2.1114	0.02803
126.01	1		2.4415													
126.02	2	2	2.0288	0.07955												
126.05	2	2	1.9963	0.08591												
126.99	1		2.1400													
127.00	19	18	0.67139	0.05497	0.65831	0.02841	0.00473	4.31%	0.05438	0.01138	0.05556	8.10%	1.69%	8.27%	4.8833	0.01165
127.01	1		0.61100													
127.02	2	2	0.71383	0.07662												
127.05	2	2	0.68900	0.13011												
127.99	1		0.56500													
128.00	19	19	1.2760	0.07128	1.2860	0.04763	0.00773	3.70%	0.06991	0.01964	0.07262	5.48%	1.54%	5.69%	3.6968	0.01859
128.01	1		1.4235													
128.02	2	2	1.3763	0.05123												
128.05	2	2	1.3955	0.01909												
128.99	1		1.2850													

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129.00	19	18	3.0994	0.10392	3.1003	0.08893	0.01482	2.87%	0.10273	0.02213	0.10509	3.31%	0.71%	3.39%	4.7477	0.02289
129.01	1		3.1595													
129.02	2	2	3.2238	0.03574												
129.05	2	2	3.1573	0.01167												
129.99	1		3.2900													
130.00	19	18	1.2576	0.05370	1.2489	0.03236	0.00539	2.59%	0.05301	0.01210	0.05438	4.22%	0.96%	4.32%	4.4936	0.01234
130.01	1		1.2705													
130.02	2	2	1.5841	0.34924												
130.05	3	3	1.3737	0.09487	1.3737	0.09487	0.03873	6.91%	0.08436	0.06137	0.10432	6.14%	4.47%	7.59%	1.6998	0.05333
130.99	1		1.2150													
131.00	19	18	0.77760	0.06568	0.76554	0.03318	0.00553	4.33%	0.06480	0.01511	0.06654	8.33%	1.94%	8.56%	4.4035	0.01272
131.01	1		0.64600													
131.02	3	3	0.80908	0.02439	0.80908	0.02439	0.00996	3.01%	0.02332	0.01009	0.02541	2.88%	1.25%	3.14%	2.5195	0.01350
131.05	3	3	0.79217	0.03894	0.79217	0.03894	0.01590	4.92%	0.03287	0.02953	0.04419	4.15%	3.73%	5.58%	1.4963	0.02633
131.99	1		0.84500													
132.00	19	19	1.5523	0.08879	1.5423	0.04414	0.00716	2.86%	0.08600	0.03122	0.09149	5.54%	2.01%	5.89%	2.9305	0.02740
132.01	1		1.5875													
132.02	2	2	1.6098	0.04059												
132.05	2	2	1.4845	0.10677												
132.99	1		1.5800													
133.00	19	19	2.4245	0.12216	2.4353	0.08284	0.01344	3.40%	0.11901	0.03896	0.12523	4.91%	1.61%	5.17%	3.2142	0.04242
133.05	2	2	2.3143	0.29946												
133.99	1		2.6200													
134.00	19	19	1.7912	0.11223	1.8091	0.06844	0.01110	3.78%	0.11060	0.02697	0.11384	6.17%	1.51%	6.36%	4.2208	0.02883
134.01	1		2.0130													
134.02	2	2	1.7279	0.00555												
134.05	2	2	1.6790	0.17890												
134.99	1		1.9250													
135.00	19	18	1.2105	0.05195	1.2100	0.05469	0.00911	4.52%	0.05046	0.01747	0.05340	4.17%	1.44%	4.41%	3.0571	0.02038
135.01	1		1.3300													
135.02	2	2	1.2232	0.00325												
135.05	3	3	1.1580	0.07629	1.1580	0.07629	0.03115	6.59%	0.07531	0.01727	0.07727	6.50%	1.49%	6.67%	4.4734	0.01800
135.99	1		1.2300													
136.00	5	5	0.27817	0.03570	0.27817	0.03570	0.01129	12.83%	0.03487	0.01080	0.03651	12.54%	3.88%	13.12%	3.3792	0.00942
136.01	4	4	0.26838	0.03447	0.26838	0.03447	0.01219	12.84%	0.03437	0.00369	0.03457	12.81%	1.38%	12.88%	9.3653	0.00375
136.03	3	3	0.27193	0.00327	0.27193	0.00327	0.00133	1.20%		0.00543			2.00%			0.00740
136.99	3	3	0.27450	0.01311	0.27450	0.01311	0.00535	4.77%	0.00574	0.01666	0.01762	2.09%	6.07%	6.42%	1.0578	0.01633
137.00	12	11	1.0859	0.06029	1.0834	0.05720	0.01219	5.28%	0.05968	0.01212	0.06089	5.50%	1.12%	5.61%	5.0246	0.01525

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rstd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
137.02	2	2	1.2233	0.01867												
137.05	2	2	1.0915	0.19940												
137.99	1		1.2050													
138.00	19	19	1.5949	0.08986	1.5924	0.05233	0.00849	3.29%	0.08801	0.02565	0.09167	5.52%	1.61%	5.75%	3.5738	0.02598
138.02	2	2	1.7824	0.12813												
138.05	2	2	1.7243	0.09652												
138.99	1		1.5200													
139.00	6	5	0.19420	0.06186	0.19420	0.06186	0.01956	31.85%	0.06169	0.00643	0.06202	31.77%	3.31%	31.94%	9.6397	0.00640
139.02	2	2	0.14585	0.01011												
139.05	2	2	0.15200	0.06647												
139.99	1		0.25000													
140.01	1		0.01000													
141.00	2	2	0.24150	0.00707												
142.00	1		0.02300													
210.99	9	9	6.2600	8.4420	2.3487	0.85376	0.20123	36.35%	8.4414	0.13968	8.4426	134.85%	2.23%	134.87%	60.441	0.12667
300.07	2	2	3.1250	0.74246												