

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201230

Beef Feedlot special, Medicated



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 sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.02	1		4.6600														
000.99	2	2	10.308	4.6492													
001.00	12	8	8.9206	2.1074	8.4429	1.0989	0.27472	13.02%	0.80311	0.05612	0.80507	9.77%	0.68%	9.79%	14.344	0.06625	2.90%
001.03	18	17	8.2335	0.84361	7.9937	0.25507	0.04374	3.19%	0.40329	0.01862	0.40372	5.01%	0.23%	5.01%	21.677	0.02118	2.93%
001.05	1		7.6500														
001.07	37	36	7.9976	0.57588	7.9808	0.39165	0.04616	4.91%	0.42304	0.14724	0.44793	5.29%	1.84%	5.60%	3.0422	0.13840	2.93%
001.08	4	4	8.5900	0.11525	8.5900	0.11525	0.04075	1.34%		0.19919			2.32%			0.24500	2.89%
001.99	18	16	8.3996	1.2805	8.4129	1.2321	0.21781	14.65%	1.3225	0.06061	1.3239	15.71%	0.72%	15.73%	21.842	0.07025	2.90%
002.00	4	4	43.036	0.44455	43.036	0.44455	0.15717	1.03%	0.36158	0.36574	0.51430	0.84%	0.85%	1.20%	1.4062	0.38750	2.27%
002.01	12	11	42.822	0.40917	42.834	0.43883	0.09356	1.02%	0.38150	0.11373	0.39809	0.89%	0.27%	0.93%	3.5003	0.17218	2.27%
002.02	6	6	42.698	0.62122	42.501	0.32483	0.09377	0.76%	0.65583	0.09675	0.66293	1.53%	0.23%	1.55%	6.8522	0.21000	2.27%
002.03	1		55.140														
002.04	7	7	42.456	1.6127	42.337	1.5716	0.42002	3.71%	1.6103	0.12564	1.6152	3.79%	0.30%	3.80%	12.855	0.13714	2.28%
002.05	48	47	42.828	1.0540	42.811	0.48659	0.05019	1.14%	0.68492	0.15115	0.70140	1.60%	0.35%	1.64%	4.6403	0.13814	2.27%
002.06	225	140	43.135	2.6647	43.411	0.44248	0.02644	1.02%	0.80837	0.19351	0.83121	1.86%	0.45%	1.91%	4.2954	0.22382	2.27%
002.07	1		43.535														
002.08	3	3	42.912	0.22713	42.912	0.22713	0.09272	0.53%	0.22461	0.04772	0.22962	0.52%	0.11%	0.54%	4.8114	0.05603	2.27%
002.10	2	2	42.309	0.40217													
002.11	6	6	42.643	3.2517	43.221	2.3118	0.66736	5.35%	3.2506	0.12090	3.2529	7.62%	0.28%	7.63%	26.906	0.12333	2.27%
002.99	3	3	42.598	0.10004	42.598	0.10004	0.04084	0.23%		0.45374			1.07%			0.53000	2.27%
003.00	21	20	2.6243	0.73709	2.5051	0.55433	0.08765	22.13%	0.72939	0.15023	0.74470	27.79%	5.72%	28.38%	4.9570	0.14346	3.48%
003.01	2	2	2.2000	0.52326													
003.06	21	20	1.9995	0.45460	1.8982	0.08895	0.01406	4.69%	0.22111	0.06525	0.23054	11.57%	3.42%	12.07%	3.5329	0.06865	3.63%
003.07	1		4.1000														
003.09	24	23	2.2388	0.23396	2.2409	0.24927	0.03675	11.12%	0.22969	0.06292	0.23815	10.26%	2.81%	10.64%	3.7847	0.06997	3.54%
003.10	38	36	1.8652	0.27809	1.8404	0.23272	0.02743	12.65%	0.21469	0.06135	0.22329	11.69%	3.34%	12.16%	3.6395	0.06585	3.65%
003.11	5	5	3.5810	3.7135	3.5810	3.7135	1.1743	103.70%	0.48857	0.08374	0.49569	25.30%	4.34%	25.67%	5.9194	0.18600	3.30%

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003.12	18	17	1.9121	0.16401	1.9137	0.17955	0.03079	9.38%	0.16908	0.01447	0.16970	8.84%	0.76%	8.87%	11.728	0.02176	3.63%
003.13	8	7	1.8831	0.15797	1.8522	0.10850	0.02900	5.86%	0.15472	0.04506	0.16115	8.22%	2.39%	8.56%	3.5766	0.05414	3.65%
003.14	35	33	2.1512	0.48346	2.1045	0.38865	0.04784	18.47%	0.39087	0.07042	0.39717	18.56%	3.34%	18.86%	5.6398	0.08071	3.58%
003.99	9	7	2.4036	0.46419	2.2609	0.25282	0.06757	11.18%	0.46328	0.04114	0.46510	19.27%	1.71%	19.35%	11.304	0.05000	3.54%
004.00	29	29	8.9654	1.0654	9.0485	0.55200	0.07248	6.10%	0.96397	0.19300	0.98310	10.87%	2.18%	11.09%	5.0938	0.22534	2.87%
004.01	2	2	11.025	1.3789													
004.03	3	3	6.4433	3.8007	6.4433	3.8007	1.5516	58.99%	3.8000	0.10646	3.8015	58.98%	1.65%	59.00%	35.709	0.14667	3.02%
004.06	47	46	9.1327	0.91408	9.1160	0.67438	0.07031	7.40%	0.75680	0.10815	0.76449	8.40%	1.20%	8.48%	7.0690	0.12302	2.87%
004.07	59	57	10.308	1.7686	10.475	1.3122	0.12290	12.53%	1.3599	0.22704	1.3788	13.01%	2.17%	13.19%	6.0729	0.24771	2.81%
004.11	5	5	9.0240	1.5550	9.0240	1.5550	0.49172	17.23%	1.5538	0.08556	1.5561	17.22%	0.95%	17.24%	18.188	0.10000	2.87%
004.99	5	5	8.7270	0.56235	8.7270	0.56235	0.17783	6.44%	0.55107	0.15846	0.57340	6.31%	1.82%	6.57%	3.6185	0.18200	2.89%
005.00	189	111	21.391	0.89720	21.450	0.79517	0.05337	3.71%	0.82718	0.14715	0.84017	3.86%	0.69%	3.92%	5.7098	0.19132	2.52%
005.01	1		21.415														
005.02	2	2	22.010	0.48083													
005.03	2	2	20.653	2.1956													
005.05	37	36	21.920	1.0800	21.861	0.73425	0.08653	3.36%	0.74053	0.10882	0.74848	3.40%	0.50%	3.44%	6.8780	0.13598	2.51%
005.11	2	2	18.208	4.6634													
005.99	16	15	21.377	1.1481	21.486	0.95358	0.17410	4.44%	0.75416	0.19107	0.77799	3.48%	0.88%	3.59%	4.0717	0.32680	2.52%
006.01	1		3.2500														
006.99	1		1.2450														
008.02	13	13	12.743	1.1451	12.820	1.0673	0.20931	8.33%	1.1387	0.17098	1.1515	8.94%	1.34%	9.04%	6.7346	0.20231	2.72%
008.05	2	2	14.727	0.24466													
008.08	31	31	12.163	1.1009	12.189	0.97807	0.12421	8.02%	1.0666	0.38591	1.1342	8.77%	3.17%	9.33%	2.9391	0.40326	2.75%
008.99	3	3	14.550	3.3470	14.550	3.3470	1.3664	23.00%	3.3328	0.43466	3.3610	22.91%	2.99%	23.10%	7.7325	0.52000	2.67%
009.04	1		21.265														
009.07	13	13	22.218	1.6521	22.218	1.8735	0.36742	8.43%	1.6404	0.27715	1.6637	7.38%	1.25%	7.49%	6.0028	0.32554	2.51%
009.09	28	28	21.497	2.5203	21.160	1.7527	0.23421	8.28%	1.5460	0.65592	1.6794	7.35%	3.12%	7.98%	2.5604	0.83678	2.53%
009.99	3	3	25.165	4.1024	25.165	4.1024	1.6748	16.30%	4.0974	0.28604	4.1074	16.28%	1.14%	16.32%	14.360	0.33667	2.46%
010.03	5	5	6.6058	0.86719	6.6058	0.86719	0.27423	13.13%	0.85536	0.20192	0.87887	12.95%	3.06%	13.30%	4.3526	0.22776	3.01%
010.11	2	2	8.0675	1.4460													
010.99	14	13	8.3260	0.63934	8.2705	0.43237	0.08480	5.23%	0.41753	0.13145	0.43773	5.10%	1.61%	5.34%	3.3299	0.13726	2.91%
011.01	162	82	10.656	0.94076	10.742	0.83012	0.06482	7.73%	0.88814	0.14366	0.89968	8.30%	1.34%	8.41%	6.2625	0.16690	2.80%
011.02	5	3	9.0950	0.45351	9.0950	0.45351	0.18515	4.99%	0.43973	0.15690	0.46689	4.83%	1.73%	5.13%	2.9758	0.18333	2.87%
011.99	2	2	9.4350	0.26163													
012.00	8	7	4.3164	1.2926	4.2766	1.3836	0.36977	32.35%	1.2921	0.05203	1.2931	29.93%	1.21%	29.96%	24.854	0.05857	3.21%
012.01	6	5	3.7662	0.56472	3.7662	0.56472	0.17858	14.99%	0.55125	0.17335	0.57787	14.64%	4.60%	15.34%	3.3336	0.20840	3.28%
012.02	1		4.1950														
012.03	2	2	4.4100	0.53740													

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012.04	6	6	3.9842	1.8730	3.6008	0.96224	0.27777	26.72%	0.75240	0.09407	0.75826	23.00%	2.88%	23.18%	8.0602	0.17833	3.30%
012.11	1		5.2550														
013.00	19	18	3.0793	0.40911	3.0691	0.44081	0.07347	14.36%	0.34593	0.15461	0.37891	11.42%	5.10%	12.50%	2.4507	0.18117	3.38%
013.02	101	28	3.2077	0.54282	3.1462	0.44791	0.05985	14.24%	0.39285	0.10939	0.40779	12.63%	3.52%	13.11%	3.7278	0.11882	3.37%
013.08	2	2	2.4325	0.63993													
013.10	12	11	2.7018	0.70586	2.6937	0.62849	0.13400	23.33%	0.69432	0.17978	0.71721	25.70%	6.65%	26.55%	3.9893	0.19640	3.45%
013.12	2	2	2.7325	0.23688													
013.13	3	3	3.0667	0.58859	3.0667	0.58859	0.24029	19.19%	0.58144	0.12936	0.59565	18.96%	4.22%	19.42%	4.6047	0.14000	3.38%
015.41	6	6	2,048.0	210.81	2,069.9	192.41	55.544	9.30%	188.87	132.44	230.68	9.22%	6.47%	11.26%	1.7417	127.98	5.07%
015.42	1		1,372.0														
015.43	3	3	1,297.3	673.04	1,297.3	673.04	274.77	51.88%	670.81	77.525	675.27	51.71%	5.98%	52.05%	8.7103	81.767	5.44%
015.52	1		1,772.0														
017.41	2	2	12.788	0.35002													
017.42	2	2	11.458	2.1814													
017.43	3	3	13.763	1.6737	13.763	1.6737	0.68328	12.16%	2.3541	0.07000	2.3552	17.23%	0.51%	17.24%	33.646	0.44667	10.78%
019.00	29	28	5.5157	0.16050	5.5273	0.14397	0.01924	2.60%	0.12796	0.04056	0.13423	2.31%	0.73%	2.42%	3.3097	0.05056	3.09%
019.02	1		6.7650														
019.03	4	4	5.8420	0.30678	5.8420	0.30678	0.10846	5.25%	0.30362	0.06208	0.30990	5.20%	1.06%	5.30%	4.9916	0.07350	3.07%
019.08	10	9	5.5072	0.22258	5.5552	0.13037	0.03073	2.35%	0.08469	0.09780	0.12937	1.52%	1.75%	2.32%	1.3228	0.10260	3.09%
019.31	30	28	5.4833	0.28099	5.4767	0.30039	0.04014	5.48%	0.27445	0.08874	0.28844	5.00%	1.62%	5.25%	3.2503	0.10050	3.10%
019.32	7	7	5.3624	0.20428	5.3563	0.21929	0.05861	4.09%	0.21221	0.05564	0.21939	3.94%	1.03%	4.08%	3.9427	0.10769	3.11%
019.33	3	3	5.5802	0.25990	5.5802	0.25990	0.10610	4.66%	0.25398	0.07800	0.26569	4.55%	1.40%	4.76%	3.4064	0.09033	3.09%
019.41	44	43	5.5032	0.40593	5.5286	0.22586	0.02436	4.09%	0.24366	0.10159	0.26399	4.39%	1.83%	4.75%	2.5986	0.11644	3.09%
019.42	17	16	5.6012	0.35308	5.5795	0.20659	0.03652	3.70%	0.20909	0.06336	0.21848	3.78%	1.15%	3.95%	3.4479	0.10200	3.09%
019.43	13	13	5.5856	0.40515	5.5631	0.27052	0.05305	4.86%	0.39895	0.09990	0.41126	7.14%	1.79%	7.36%	4.1169	0.10492	3.09%
019.44	3	3	4.0299	2.6355	4.0299	2.6355	1.0759	65.40%	2.6354	0.02409	2.6355	65.40%	0.60%	65.40%	109.42	0.02967	3.24%
019.52	1		4.9525														
019.53	2	2	5.6475	0.12374													
019.99	6	6	4.8783	1.0756	5.2541	0.42768	0.12346	8.14%	0.45103	0.17118	0.48242	8.54%	3.24%	9.13%	2.8182	0.16150	3.12%
021.31	3	3	9.2083	2.0935	9.2083	2.0935	0.85467	22.74%	2.0930	0.06745	2.0941	22.73%	0.73%	22.74%	31.044	0.08333	11.45%
021.34	1		8.5250														
021.41	5	5	8.6535	2.3694	8.6535	2.3694	0.74927	27.38%	0.44217	0.25471	0.51028	4.56%	2.63%	5.26%	2.0034	0.24830	11.56%
021.42	2	2	9.7525	0.56215													
021.43	4	4	9.0790	0.75558	9.0790	0.75558	0.26714	8.32%	0.73702	0.23535	0.77368	8.12%	2.59%	8.52%	3.2874	0.27250	11.48%
021.52	2	2	9.1028	0.42815													
021.53	2	2	8.7725	1.5662													
022.31	18	18	183.03	8.8500	183.61	5.5589	0.92648	3.03%	6.7640	3.1988	7.4822	3.66%	1.73%	4.05%	2.3391	4.2398	7.30%
022.32	3	3	180.17	43.607	180.17	43.607	17.803	24.20%	43.541	3.3912	43.673	24.17%	1.88%	24.24%	12.878	3.6667	7.32%

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022.33	1		183.94														
022.41	31	30	181.35	17.510	181.66	16.031	2.0695	8.82%	14.645	5.0924	15.505	7.98%	2.78%	8.45%	3.0447	6.1043	7.31%
022.42	16	16	191.74	15.844	192.83	12.536	2.2160	6.50%	10.892	4.2427	11.689	5.58%	2.17%	5.99%	2.7551	4.7969	7.25%
022.43	12	12	186.21	10.126	186.30	6.7119	1.3701	3.60%	9.2391	5.8607	10.941	4.96%	3.15%	5.88%	1.8669	6.7850	7.28%
022.44	2	2	172.25	26.517													
022.52	1		150.73														
022.53	2	2	193.75	1.0607													
022.99	1		96.000														
025.31	19	18	1,110.3	123.50	1,107.4	103.57	17.262	9.35%	97.920	19.946	99.930	8.97%	1.83%	9.15%	5.0101	21.504	5.57%
025.32	2	2	756.24	90.177													
025.33	1		1,025.7														
025.41	34	33	1,042.4	122.99	1,064.3	79.744	9.8158	7.49%	108.99	16.621	110.25	10.34%	1.58%	10.46%	6.6334	24.814	5.60%
025.42	13	13	698.10	213.23	737.65	148.40	29.104	20.12%	155.30	28.503	157.89	20.98%	3.85%	21.33%	5.5394	30.401	5.92%
025.43	11	11	862.03	250.85	896.56	211.61	45.116	23.60%	249.78	32.712	251.91	28.98%	3.79%	29.22%	7.7010	40.066	5.75%
025.52	1		889.37														
025.53	1		990.00														
025.99	1		718.50														
027.31	18	17	0.37552	0.01742	0.37600	0.01619	0.00278	4.31%	0.01694	0.00855	0.01897	4.51%	2.28%	5.05%	2.2181	0.01101	4.63%
027.32	4	4	0.37550	0.01856	0.37550	0.01856	0.00656	4.94%	0.01836	0.00383	0.01875	4.89%	1.02%	4.99%	4.8904	0.00355	4.64%
027.34	1		0.34350														
027.41	35	34	0.37205	0.06098	0.37237	0.01697	0.00206	4.56%	0.02123	0.00837	0.02281	5.73%	2.26%	6.15%	2.7274	0.00901	4.64%
027.42	16	15	0.35940	0.01801	0.35985	0.01943	0.00355	5.40%	0.01729	0.00715	0.01871	4.81%	1.99%	5.21%	2.6180	0.00753	4.66%
027.43	12	11	0.36194	0.02406	0.36138	0.01989	0.00424	5.50%	0.02384	0.00450	0.02427	6.59%	1.24%	6.70%	5.3870	0.00492	4.66%
027.44	2	2	0.34700	0.00354													
027.52	1		0.30660														
027.53	2	2	1,735.2	2,453.4													
027.99	1		0.29500														
028.31	17	17	381.37	33.085	381.09	29.121	4.9941	7.64%	33.810	6.4053	34.411	8.88%	1.68%	9.03%	5.3723	8.2712	6.54%
028.32	3	3	277.83	171.36	277.83	171.36	69.957	61.68%	171.30	6.3377	171.42	61.66%	2.28%	61.70%	27.047	6.3333	6.86%
028.33	1		316.39														
028.41	33	31	359.02	24.712	362.46	14.525	1.8447	4.01%	18.711	4.4524	19.234	5.17%	1.23%	5.31%	4.3199	6.1227	6.59%
028.42	16	15	375.44	17.811	378.49	11.675	2.1316	3.08%	18.263	2.5956	18.447	4.87%	0.69%	4.92%	7.1069	5.3600	6.55%
028.43	13	12	356.40	22.560	358.89	20.273	4.1383	5.65%	17.299	4.5254	17.881	4.80%	1.25%	4.96%	3.9512	6.8725	6.60%
028.44	2	2	338.00	26.163													
028.52	1		346.45														
028.53	2	2	380.25	14.496													
031.01	67	65	1.0557	0.06524	1.0605	0.02575	0.00226	2.43%	0.04710	0.00858	0.04788	4.48%	0.82%	4.56%	5.5779	0.01093	3.96%
031.02	2	2	1.0539	0.00544													

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 sT	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.03	6	6	1.0547	0.03064	1.0494	0.02283	0.00659	2.18%	0.02648	0.02179	0.03429	2.51%	2.07%	3.25%	1.5740	0.02600	3.97%
031.06	3	3	1.0363	0.08823	1.0363	0.08823	0.03602	8.51%	0.08341	0.04071	0.09281	8.05%	3.93%	8.96%	2.2798	0.05067	3.98%
031.41	43	42	1.0528	0.08699	1.0492	0.06158	0.00672	5.87%	0.06178	0.01421	0.06339	5.92%	1.36%	6.08%	4.4619	0.01680	3.97%
031.42	18	17	1.0350	0.05558	1.0327	0.03501	0.00600	3.39%	0.04163	0.01866	0.04562	3.99%	1.79%	4.37%	2.4442	0.01939	3.98%
031.43	15	15	1.0432	0.05199	1.0426	0.05031	0.00918	4.83%	0.04845	0.02667	0.05531	4.64%	2.56%	5.30%	2.0740	0.02653	3.97%
031.44	3	3	0.92117	0.21501	0.92117	0.21501	0.08778	23.34%	0.21423	0.02583	0.21578	23.26%	2.80%	23.43%	8.3531	0.02733	4.05%
031.52	1		0.86445														
031.53	2	2	1.0823	0.10996													
031.99	6	6	1.0199	0.09891	1.0227	0.10779	0.03112	10.54%	0.09750	0.02349	0.10029	9.56%	2.30%	9.83%	4.2698	0.02683	3.99%
032.02	8	7	1.2377	0.34154	1.1249	0.08056	0.02153	7.16%	0.06605	0.00808	0.06654	5.95%	0.73%	5.99%	8.2323	0.00857	3.93%
032.31	24	22	1.0716	0.05015	1.0723	0.05410	0.00816	5.04%	0.04532	0.01396	0.04743	4.21%	1.30%	4.41%	3.3970	0.01773	3.96%
032.32	5	5	1.0650	0.06403	1.0650	0.06403	0.02025	6.01%	0.06384	0.00707	0.06423	5.99%	0.66%	6.03%	9.0830	0.00600	3.96%
032.33	1		1.0375														
032.41	36	35	1.1113	0.08562	1.1003	0.05996	0.00717	5.45%	0.06343	0.02225	0.06722	5.75%	2.02%	6.10%	3.0210	0.02656	3.94%
032.42	17	16	1.1202	0.05939	1.1181	0.06258	0.01106	5.60%	0.05838	0.01895	0.06137	5.20%	1.69%	5.46%	3.2394	0.02426	3.93%
032.43	15	14	1.1068	0.08169	1.0938	0.04081	0.00771	3.73%	0.03992	0.01549	0.04283	3.66%	1.42%	3.93%	2.7641	0.02579	3.95%
032.44	3	3	1.0735	0.01759	1.0735	0.01759	0.00718	1.64%	0.01294	0.01684	0.02124	1.21%	1.57%	1.98%	1.2613	0.01700	3.96%
032.52	1		1.0430														
032.53	2	2	1.0825	0.04596													
032.99	3	3	1.0025	0.06466	1.0025	0.06466	0.02640	6.45%	0.06432	0.00935	0.06500	6.42%	0.93%	6.48%	6.9488	0.01167	4.00%
033.00	38	36	3.1969	0.26322	3.2320	0.09265	0.01092	2.87%	0.14872	0.01671	0.14965	4.60%	0.52%	4.62%	8.9540	0.01919	3.35%
033.01	41	39	3.3034	0.12261	3.3176	0.07277	0.00824	2.19%	0.08276	0.02244	0.08575	2.50%	0.68%	2.59%	3.8217	0.02795	3.34%
033.03	6	6	3.8358	1.1696	3.3619	0.51585	0.14891	15.34%	1.1684	0.07433	1.1708	30.46%	1.94%	30.52%	15.751	0.08167	3.33%
033.05	4	4	2.9500	0.52591	2.9500	0.52591	0.18594	17.83%	0.21170	0.00913	0.21190	6.62%	0.29%	6.63%	23.212	0.03500	3.40%
033.99	11	11	3.2591	0.50465	3.3466	0.14891	0.03175	4.45%	0.17992	0.04448	0.18534	5.29%	1.31%	5.45%	4.1665	0.04899	3.33%
034.04	5	5	2.0117	0.53980	2.0117	0.53980	0.17070	26.83%	0.59761	0.14107	0.61404	28.89%	6.82%	29.69%	4.3527	0.31860	14.40%
034.34	1		2.1750														
034.42	1		2.1600														
034.43	2	2	2.2983	0.25915													
034.52	1		1.8320														
034.53	3	3	2.6183	0.61503	2.6183	0.61503	0.25108	23.49%	0.43277	0.61801	0.75447	16.53%	23.60%	28.81%	1.2208	0.72400	13.84%
034.99	2	2	2.5043	0.55968													
035.01	4	4	1.4173	0.06380	1.4173	0.06380	0.02256	4.50%	0.06344	0.00951	0.06415	4.48%	0.67%	4.53%	6.7435	0.00950	3.80%
035.05	7	7	1.4197	0.09376	1.4302	0.04098	0.01095	2.87%	0.08956	0.03927	0.09779	6.31%	2.77%	6.89%	2.4901	0.03721	3.79%
035.31	17	17	1.3865	0.12633	1.3657	0.08239	0.01413	6.03%	0.06867	0.03550	0.07730	5.04%	2.61%	5.68%	2.1777	0.03365	3.82%
035.32	4	4	1.4678	0.08216	1.4678	0.08216	0.02905	5.60%	0.08208	0.00502	0.08224	5.59%	0.34%	5.60%	16.388	0.00530	3.78%
035.41	32	32	1.4351	0.40731	1.3958	0.09384	0.01173	6.72%	0.11935	0.02178	0.12132	8.54%	1.56%	8.68%	5.5699	0.02973	3.80%
035.42	12	12	1.4592	0.04757	1.4522	0.03637	0.00742	2.50%	0.04385	0.02609	0.05102	3.01%	1.79%	3.50%	1.9559	0.02719	3.78%

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035.43	10	9	1.4115	0.08779	1.3834	0.04008	0.00945	2.90%	0.08687	0.01786	0.08869	6.15%	1.27%	6.28%	4.9661	0.02233	3.81%
035.52	1		1.3425														
035.53	1		1.4100														
036.00	1		0.46000														
036.04	3	3	0.34833	0.10420	0.34833	0.10420	0.04254	29.91%	0.10400	0.00913	0.10440	29.86%	2.62%	29.97%	11.437	0.01000	4.69%
036.42	15	14	0.40450	0.04210	0.40028	0.03840	0.00726	9.59%	0.04166	0.00854	0.04253	10.30%	2.11%	10.51%	4.9804	0.00759	4.59%
036.43	7	7	0.41549	0.04700	0.40770	0.03616	0.00966	8.87%	0.04550	0.01663	0.04845	10.95%	4.00%	11.66%	2.9129	0.01761	4.58%
036.99	1		0.28000														
037.31	19	18	621.75	66.408	631.64	40.295	6.7158	6.38%	51.706	10.993	52.861	8.26%	1.76%	8.45%	4.8087	16.571	6.06%
037.32	3	3	914.67	447.54	914.67	447.54	182.71	48.93%	447.51	7.7028	447.57	48.93%	0.84%	48.93%	58.105	8.6667	5.73%
037.33	1		640.93														
037.41	33	31	607.27	40.270	606.41	41.189	5.2310	6.79%	40.213	10.557	41.576	6.63%	1.74%	6.85%	3.9382	13.411	6.10%
037.42	15	14	635.68	26.862	635.68	30.461	5.7566	4.79%	25.813	10.512	27.871	4.06%	1.65%	4.38%	2.6513	11.267	6.06%
037.43	14	13	604.79	33.283	609.74	21.237	4.1648	3.48%	32.528	9.9667	34.021	5.38%	1.65%	5.63%	3.4134	11.651	6.09%
037.44	2	2	608.25	35.002													
037.52	1		471.68														
037.53	2	2	606.00	6.3640													
037.99	1		117.50														
038.41	3	3	1.4048	0.46820	1.4048	0.46820	0.19114	33.33%	0.46438	0.08438	0.47199	33.06%	6.01%	33.60%	5.5933	0.09933	15.20%
038.42	1		1.0950														
038.43	4	4	1.6313	0.40374	1.6313	0.40374	0.14274	24.75%	0.36807	0.23465	0.43651	22.56%	14.38%	26.76%	1.8602	0.26750	14.86%
038.52	1		1.6780														
041.41	1		2.8535														
065.00	4	4	267.46	3.8217	267.46	3.8217	1.3512	1.43%	4.1673	0.00000	4.1673	1.55%	0.00%	1.55%		1.8250	17.32%
065.01	2	2	231.93	17.077													
065.03	9	9	260.19	23.993	261.39	24.417	5.7551	9.34%	22.753	10.764	25.171	8.74%	4.14%	9.67%	2.3384	10.417	17.38%
065.04	4	4	265.63	15.819	265.63	15.819	5.5927	5.96%	15.708	2.6416	15.929	5.91%	0.99%	6.00%	6.0300	3.1700	17.34%
065.99	5	5	256.83	8.1219	256.83	8.1219	2.5684	3.16%	5.4543	8.5106	10.108	2.12%	3.31%	3.94%	1.1877	10.410	17.43%
079.03	1		0.00000														
091.01	1		0.00000														
101.01	1		273.00														
101.02	1		501.00														
104.00	1		4.5400														
105.00	1		2.4300														
106.00	4	4	25.395	1.8552	25.395	1.8552	0.65590	7.31%	1.7143	1.0029	1.9861	6.75%	3.95%	7.82%	1.9804	1.3193	
106.01	1		21.670														
106.02	25	23	25.014	6.8152	23.975	4.9763	0.73371	20.76%	5.1444	1.7923	5.4477	21.24%	7.40%	22.49%	3.0395	2.0426	
108.01	2	2	4.2025	0.66114													

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108.02	4	4	2.4718	1.4852	2.4718	1.4852	0.52511	60.09%	1.4753	0.24254	1.4951	59.69%	9.81%	60.49%	6.1644	0.30000	
109.02	9	9	11.078	7.6367	10.531	5.6846	1.3399	53.98%	8.1533	0.53942	8.1711	73.95%	4.89%	74.12%	15.148	0.72258	11.22%
110.00	1		9.3900														
115.00	2	2	20.847	0.18173													
120.00	15	14	1.0493	0.03235	1.0531	0.02871	0.00543	2.73%	0.03201	0.01193	0.03416	3.05%	1.14%	3.26%	2.8631	0.01654	3.97%
120.01	1		1.0700														
120.02	2	2	1.0430	0.08765													
120.05	3	3	1.0574	0.03950	1.0574	0.03950	0.01612	3.74%	0.03855	0.01217	0.04042	3.65%	1.15%	3.82%	3.3220	0.01620	3.97%
121.00	15	14	1.6938	0.08284	1.7098	0.04629	0.00875	2.71%	0.03898	0.01632	0.04226	2.28%	0.95%	2.47%	2.5891	0.01904	3.69%
121.01	2	2	1.6798	0.00742													
121.02	2	2	1.6782	0.11971													
121.05	3	3	1.6637	0.04551	1.6637	0.04551	0.01858	2.74%	0.03335	0.00559	0.03382	2.03%	0.34%	2.06%	6.0498	0.04133	3.70%
122.00	15	14	1.7656	0.04936	1.7667	0.04502	0.00851	2.55%	0.04451	0.01105	0.04586	2.51%	0.62%	2.59%	4.1505	0.01530	3.67%
122.01	2	2	1.7208	0.05763													
122.02	2	2	1.8048	0.00389													
122.05	3	3	1.7382	0.06535	1.7382	0.06535	0.02668	3.76%	0.06096	0.03331	0.06946	3.51%	1.92%	4.00%	2.0855	0.03433	3.68%
124.00	14	14	0.32606	0.03984	0.32825	0.03041	0.00575	9.26%	0.02799	0.00624	0.02868	8.38%	1.87%	8.59%	4.5935	0.00874	4.73%
124.01	2	2	0.31100	0.02404													
124.02	2	2	0.33828	0.03292													
124.05	3	3	0.33800	0.09449	0.33800	0.09449	0.03858	27.96%	0.09426	0.00931	0.09472	27.89%	2.75%	28.02%	10.175	0.00933	4.71%
125.00	15	14	3.6032	0.06844	3.6074	0.06728	0.01271	1.87%	0.06749	0.02653	0.07252	1.87%	0.74%	2.01%	2.7333	0.03536	3.30%
125.01	2	2	3.6105	0.33305													
125.02	2	2	3.6107	0.06817													
125.05	3	3	3.4673	0.16702	3.4673	0.16702	0.06818	4.82%	0.15667	0.08183	0.17676	4.52%	2.36%	5.10%	2.1600	0.07933	3.32%
126.00	15	14	0.89174	0.02473	0.89283	0.02600	0.00491	2.91%	0.02375	0.01002	0.02577	2.67%	1.13%	2.90%	2.5733	0.01384	4.07%
126.01	2	2	0.84400	0.00707													
126.02	2	2	0.92663	0.01008													
126.05	3	3	0.91233	0.02802	0.91233	0.02802	0.01144	3.07%	0.01737	0.03110	0.03562	1.90%	3.41%	3.90%	1.1454	0.03400	4.06%
127.00	14	14	0.54746	0.03571	0.54233	0.02461	0.00465	4.54%	0.02627	0.00831	0.02755	4.86%	1.54%	5.09%	3.3159	0.01172	4.39%
127.01	2	2	134.12	189.02													
127.02	2	2	0.58438	0.04685													
127.05	3	3	0.53367	0.01200	0.53367	0.01200	0.00490	2.25%		0.01698			3.18%			0.01600	4.40%
128.00	15	14	0.67508	0.06730	0.68965	0.02373	0.00448	3.44%	0.01690	0.01223	0.02087	2.44%	1.77%	3.01%	1.7058	0.01191	4.23%
128.01	2	2	0.73250	0.07849													
128.02	2	2	0.73028	0.00880													
128.05	3	3	0.63417	0.07833	0.63417	0.07833	0.03198	12.35%	0.05962	0.00550	0.05988	8.87%	0.82%	8.91%	10.887	0.03367	4.28%
129.00	15	14	1.3939	0.07919	1.4080	0.04388	0.00829	3.12%	0.03368	0.01100	0.03543	2.38%	0.78%	2.50%	3.2224	0.01610	3.80%
129.01	2	2	1.3975	0.04596													

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129.02	2	2	1.4734	0.01828													
129.05	3	3	1.3742	0.00965	1.3742	0.00965	0.00394	0.70%		0.04223			3.07%			0.04367	3.81%
130.00	15	15	0.93050	0.05861	0.93620	0.05037	0.00920	5.38%	0.04257	0.01695	0.04582	4.54%	1.81%	4.89%	2.7026	0.02019	4.04%
130.01	2	2	0.88475	0.06824													
130.02	2	2	0.88740	0.14906													
130.05	3	3	0.98633	0.10001	0.98633	0.10001	0.04083	10.14%	0.09732	0.03256	0.10262	9.87%	3.30%	10.40%	3.1520	0.03733	4.01%
131.00	14	13	0.28633	0.03232	0.28887	0.03025	0.00593	10.47%	0.02346	0.00682	0.02443	8.02%	2.33%	8.35%	3.5819	0.00688	4.82%
131.01	2	2	0.29625	0.02581													
131.02	2	2	0.29425	0.01308													
131.05	4	4	0.29850	0.04288	0.29850	0.04288	0.01516	14.37%	0.04182	0.01339	0.04391	14.01%	4.49%	14.71%	3.2800	0.01600	4.80%
132.00	15	15	0.97887	0.06337	0.98427	0.04079	0.00745	4.14%	0.03906	0.01324	0.04125	3.94%	1.34%	4.16%	3.1147	0.01438	4.01%
132.01	2	2	1.0023	0.07177													
132.02	2	2	1.0207	0.00332													
132.05	3	3	0.93683	0.02025	0.93683	0.02025	0.00827	2.16%	0.00998	0.02492	0.02684	1.07%	2.66%	2.87%	1.0773	0.02500	4.04%
133.00	15	15	1.1003	0.08179	1.1019	0.04297	0.00785	3.90%	0.06510	0.01298	0.06638	5.83%	1.16%	5.95%	5.1161	0.02084	3.94%
133.04	1		1.0950														
133.05	4	4	1.2506	0.15219	1.2506	0.15219	0.05381	12.17%	0.15165	0.01806	0.15272	12.13%	1.44%	12.21%	8.4569	0.01875	3.87%
134.00	15	15	0.88816	0.04687	0.89261	0.04190	0.00765	4.69%	0.03195	0.01968	0.03753	3.56%	2.20%	4.19%	1.9065	0.02129	4.07%
134.01	2	2	0.86700	0.03253													
134.02	2	2	0.86668	0.01015													
134.05	3	3	0.91250	0.04161	0.91250	0.04161	0.01699	4.56%	0.04148	0.00456	0.04173	4.55%	0.50%	4.57%	9.1433	0.00500	4.06%
135.00	15	14	0.77315	0.04296	0.78018	0.02882	0.00545	3.69%	0.03101	0.00852	0.03216	3.97%	1.09%	4.12%	3.7726	0.01245	4.15%
135.01	2	2	0.74825	0.00177													
135.02	2	2	0.80293	0.00718													
135.05	3	3	0.80783	0.07732	0.80783	0.07732	0.03157	9.57%	0.07664	0.01452	0.07800	9.49%	1.80%	9.66%	5.3719	0.02033	4.13%
136.00	2	2	0.20950	0.08061													
136.01	6	6	0.21233	0.03800	0.21542	0.03796	0.01096	17.62%	0.03789	0.00404	0.03811	17.84%	1.90%	17.95%	9.4287	0.00433	5.04%
136.03	2	2	0.21575	0.01096													
136.05	1		0.16250														
136.99	3	3	0.23667	0.01843	0.23667	0.01843	0.00752	7.79%	0.01695	0.01021	0.01979	7.16%	4.32%	8.36%	1.9377	0.01200	4.97%
137.00	11	10	0.58235	0.12357	0.61172	0.03280	0.00734	5.36%	0.02992	0.01036	0.03166	4.82%	1.67%	5.10%	3.0562	0.01170	4.31%
137.01	1		0.63450														
137.02	2	2	0.63825	0.05409													
137.05	3	3	0.53883	0.10225	0.53883	0.10225	0.04174	18.98%	0.10183	0.01294	0.10265	18.90%	2.40%	19.05%	7.9317	0.01633	4.39%
138.00	15	14	0.92541	0.11111	0.93921	0.05151	0.00974	5.48%	0.05641	0.02807	0.06301	5.93%	2.95%	6.63%	2.2445	0.02626	4.04%
138.01	1		0.88700														
138.02	2	2	1.0253	0.03065													
138.05	3	3	0.87433	0.04910	0.87433	0.04910	0.02004	5.62%	0.04874	0.00300	0.04884	5.45%	0.34%	5.46%	16.279	0.05067	4.08%

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)	Horwitz %RSD
139.00	3	3	0.06183	0.02540	0.06183	0.02540	0.01037	41.08%	0.02505	0.00590	0.02574	40.52%	9.54%	41.63%	4.3611	0.00767	6.08%
139.02	1		0.00000														
139.05	1		0.00300														
140.01	1		0.09800														
160.99	1		0.15250														
161.99	1		0.00000														
162.99	1		0.14600														
163.99	1		0.00000														
164.99	1		0.24150														
165.99	1		0.52100														
166.99	1		1.8975														
167.99	1		0.25750														
210.99	1		1.0300														
400.01	1		0.46800														
400.99	1		0.48550														
516.00	3	3	0.41783	0.05594	0.41783	0.05594	0.02284	13.39%	0.02420	0.07132	0.07532	5.79%	17.07%	18.03%	1.0560	0.07300	18.24%
518.34	1		0.15205														
518.41	3	3	0.14995	0.07131	0.14995	0.07131	0.02911	47.56%	0.09683	0.00424	0.09692	69.91%	3.06%	69.98%	22.844	0.02470	21.28%
518.52	1		0.26600														
520.41	2	2	7.5041	0.77198													
520.43	2	2	10.518	0.47023													
520.52	1		8.8245														
526.31	2	2	2.0563	1.8650													
526.34	1		0.36685														
526.41	2	2	0.41313	0.31378													
526.43	1		1.0950														
526.52	1		0.99200														
529.00	1		4.0890														
529.99	1		0.00000														
539.31	1		24.355														
539.41	1		13.818														
539.43	1		13.960														
539.52	1		14.739														
600.01	1		4.1000														
600.12	1		5.0000														
601.23	1		1.8000														
601.92	1		1.4400														
602.23	1		0.29000														

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 %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
610.01	1	1	250.00														
610.23	1	1	18.530														
610.25	1	1	36.000														
630.20	1	1	0.00000														
640.01	1	1	93.500														
640.23	1	1	0.00000														
640.25	1	1	0.00000														
650.01	1	1	33.000														
650.06	1	1	106.74														
650.24	1	1	0.00000														