

AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201024

Preconditioning/Receiving Chow, 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 sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)
000.00	1		0.0000													
000.01	1		2.2550													
000.02	1		1.0100													
001.00	15	11	7.3440	0.5635	7.4164	0.3343	0.0713	4.51%	0.5615	0.0677	0.5656	7.65%	0.92%	7.70%	8.3524	0.0754
001.03	5	5	7.3870	0.4232	7.3870	0.4232	0.1338	5.73%	0.4206	0.0669	0.4259	5.69%	0.91%	5.77%	6.3698	0.0820
001.05	1		7.3900													
001.07	35	34	7.3247	0.9710	7.4947	0.2337	0.0283	3.12%	0.9676	0.1151	0.9744	13.21%	1.57%	13.30%	8.4659	0.1080
001.08	1		7.3950													
001.99	17	14	7.4569	0.2896	7.4979	0.2381	0.0450	3.18%	0.2832	0.0855	0.2959	3.80%	1.15%	3.97%	3.4594	0.0886
002.00	7	6	12.6842	0.6540	12.7036	0.7066	0.2040	5.56%	0.6429	0.1692	0.6648	5.07%	1.33%	5.24%	3.9284	0.1850
002.01	12	10	12.5064	0.2870	12.5171	0.2133	0.0477	1.70%	0.2231	0.2554	0.3391	1.78%	2.04%	2.71%	1.3278	0.2394
002.02	7	7	12.5704	0.4422	12.6182	0.3921	0.1048	3.11%	0.4351	0.1118	0.4493	3.46%	0.89%	3.57%	4.0186	0.1402
002.04	8	8	12.7175	0.6804	12.5354	0.3482	0.0870	2.78%	0.6726	0.1445	0.6880	5.29%	1.14%	5.41%	4.7617	0.1575
002.05	25	24	12.6396	0.3648	12.6412	0.3352	0.0484	2.65%	0.3524	0.1334	0.3768	2.79%	1.06%	2.98%	2.8251	0.1482
002.06	197	124	12.7639	0.5578	12.7658	0.5405	0.0343	4.23%	0.5189	0.2895	0.5942	4.07%	2.27%	4.66%	2.0527	0.2922
002.08	2	2	12.5950	0.2051												
002.10	10	10	12.7689	0.3362	12.6746	0.0852	0.0191	0.67%	0.3087	0.1883	0.3616	2.42%	1.47%	2.83%	1.9205	0.2105
002.11	8	8	11.7924	0.9279	11.6528	0.5177	0.1294	4.44%	0.9077	0.2725	0.9477	7.70%	2.31%	8.04%	3.4783	0.2764
002.99	2	2	13.2575	0.2157												
003.00	21	21	2.6426	0.4542	2.6770	0.1820	0.0281	6.80%	0.4494	0.0922	0.4588	17.01%	3.49%	17.36%	4.9749	0.0941
003.01	1		2.9000													
003.06	24	23	2.5573	0.3939	2.4913	0.2361	0.0348	9.48%	0.3897	0.0813	0.3981	15.24%	3.18%	15.57%	4.8958	0.0853
003.09	28	28	2.6006	0.1973	2.6159	0.1622	0.0217	6.20%	0.1865	0.0911	0.2075	7.17%	3.50%	7.98%	2.2790	0.0887
003.10	32	32	2.4368	0.2428	2.4352	0.1739	0.0217	7.14%	0.2223	0.1382	0.2617	9.12%	5.67%	10.74%	1.8942	0.1399
003.11	8	8	2.1819	0.3811	2.2315	0.3131	0.0783	14.03%	0.3765	0.0836	0.3857	17.26%	3.83%	17.68%	4.6105	0.0909
003.12	4	4	2.4625	0.3561	2.4625	0.3561	0.1259	14.46%	0.3544	0.0492	0.3578	14.39%	2.00%	14.53%	7.2658	0.0650
003.13	6	6	2.5248	0.1904	2.5248	0.2159	0.0623	8.55%	0.1814	0.0820	0.1990	7.18%	3.25%	7.88%	2.4284	0.1000

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)
003.14	19	19	2.4032	0.3679	2.3838	0.1707	0.0277	7.16%	0.3558	0.1323	0.3796	14.80%	5.50%	15.79%	2.8699	0.1416
003.99	13	10	2.6950	0.2862	2.6945	0.3010	0.0673	11.17%	0.1962	0.2947	0.3540	7.28%	10.93%	13.13%	1.2014	0.3320
004.00	30	29	24.2070	1.7705	24.2231	1.7503	0.2298	7.23%	1.7508	0.3730	1.7901	7.23%	1.54%	7.39%	4.7990	0.3469
004.01	2	2	25.2500	0.1414												
004.03	2	2	26.2630	1.6447												
004.06	34	33	23.5098	5.5274	24.6907	1.0870	0.1338	4.40%	5.5205	0.3882	5.5342	23.48%	1.65%	23.54%	14.2545	0.3529
004.07	43	41	24.2515	1.3971	24.2163	1.2466	0.1377	5.15%	1.3495	0.5117	1.4432	5.56%	2.11%	5.95%	2.8206	0.4984
004.11	8	8	23.5484	1.8569	23.7716	1.3737	0.3434	5.78%	1.8383	0.3707	1.8753	7.81%	1.57%	7.96%	5.0586	0.4001
004.99	4	4	23.4300	1.3199	23.4300	1.3199	0.4667	5.63%	1.2547	0.5795	1.3821	5.36%	2.47%	5.90%	2.3849	0.6250
005.00	183	119	6.5930	0.2229	6.5891	0.1862	0.0121	2.83%	0.2143	0.0864	0.2311	3.25%	1.31%	3.50%	2.6752	0.0930
005.02	1		6.6750													
005.03	1		6.6450													
005.05	14	14	6.7237	0.4358	6.7858	0.2737	0.0517	4.03%	0.4352	0.0313	0.4363	6.47%	0.47%	6.49%	13.9469	0.0344
005.11	7	7	7.3064	0.5775	7.2293	0.4788	0.1280	6.62%	0.5702	0.1293	0.5847	7.80%	1.77%	8.00%	4.5229	0.1606
005.99	10	10	6.7794	0.2246	6.7644	0.1888	0.0422	2.79%	0.2036	0.1342	0.2438	3.00%	1.98%	3.60%	1.8174	0.1420
006.99	1		4.1400													
008.02	15	14	32.7171	1.0215	32.6979	0.5104	0.0965	1.56%	0.9518	0.5246	1.0868	2.91%	1.60%	3.32%	2.0716	0.5557
008.05	1		33.3000													
008.08	24	24	31.8115	1.8341	31.8549	1.6075	0.2320	5.05%	1.7795	0.6282	1.8871	5.59%	1.97%	5.93%	3.0041	0.6667
008.99	4	4	26.7565	3.9680	26.7565	3.9680	1.4029	14.83%	3.9456	0.5961	3.9903	14.75%	2.23%	14.91%	6.6939	0.6495
009.04	1		46.8650													
009.07	7	7	45.3179	1.1056	45.4517	0.9374	0.2505	2.06%	0.9294	0.8469	1.2574	2.05%	1.87%	2.77%	1.4847	0.9186
009.09	18	18	44.3327	3.8579	44.8688	2.1905	0.3651	4.88%	3.8370	0.5678	3.8788	8.65%	1.28%	8.75%	6.8307	0.6411
009.99	6	6	44.6497	4.0444	45.2643	2.4183	0.6981	5.34%	4.0168	0.6660	4.0717	9.00%	1.49%	9.12%	6.1137	0.7100
010.03	2	2	4.5736	0.2566												
010.11	8	8	7.3375	0.5430	7.2921	0.5067	0.1267	6.95%	0.5392	0.0905	0.5468	7.35%	1.23%	7.45%	6.0390	0.0939
010.99	14	14	7.6327	0.9896	7.4658	0.4471	0.0845	5.99%	0.9830	0.1606	0.9961	12.88%	2.10%	13.05%	6.2004	0.1354
011.01	150	81	8.3897	0.3975	8.4038	0.3364	0.0264	4.00%	0.3913	0.0989	0.4036	4.66%	1.18%	4.81%	4.0796	0.0994
011.02	1		7.8700													
011.99	5	5	7.7970	0.6108	7.7970	0.6108	0.1931	7.83%	0.5821	0.2616	0.6382	7.47%	3.36%	8.18%	2.4392	0.2940
012.00	6	6	17.1258	0.9992	17.1258	1.1331	0.3271	6.62%	0.9074	0.5918	1.0833	5.30%	3.46%	6.33%	1.8305	0.5417
012.01	3	3	16.8189	0.0735	16.8189	0.0735	0.0300	0.44%		0.5064			3.01%			0.6368
012.03	2	2	16.6500	0.4950												
012.04	3	3	16.4033	1.7774	16.4033	1.7774	0.7256	10.84%	1.7759	0.1015	1.7788	10.83%	0.62%	10.84%	17.5274	0.1333
012.11	6	6	15.6251	2.8692	15.8662	2.8454	0.8214	17.93%	2.7961	0.9104	2.9405	17.89%	5.83%	18.82%	3.2299	0.9968
012.99	1		35.4000													
013.00	6	6	3.1033	0.4925	3.1182	0.5283	0.1525	16.94%	0.4886	0.0880	0.4964	15.74%	2.84%	16.00%	5.6389	0.0967
013.02	97	33	3.4593	0.7400	3.4714	0.4262	0.0525	12.28%	0.7316	0.1579	0.7484	21.15%	4.57%	21.63%	4.7386	0.1583

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)
013.10	13	11	2.7852	0.7035	2.9157	0.4104	0.0875	14.08%	0.6921	0.1789	0.7148	24.85%	6.42%	25.66%	3.9960	0.2143
013.11	2	2	2.9200	0.6647												
013.12	3	3	1.5600	0.6413	1.5600	0.6413	0.2618	41.11%	0.6410	0.0289	0.6417	41.09%	1.85%	41.13%	22.2281	0.0267
013.13	1		4.6500													
015.41	3	3	81.5203	16.9573	81.5203	16.9573	6.9228	20.80%	16.7482	3.7540	17.1638	20.54%	4.60%	21.05%	4.5722	5.1407
015.42	3	3	62.6317	11.0781	62.6317	11.0781	4.5226	17.69%	11.0710	0.5607	11.0851	17.68%	0.90%	17.70%	19.7713	0.6967
015.43	4	4	73.6375	5.3657	73.6375	5.3657	1.8971	7.29%	5.2755	1.3854	5.4544	7.16%	1.88%	7.41%	3.9371	1.7700
015.52	1		89.5000													
016.00	1		0.0680													
017.41	1		8.5550													
017.42	2	2	9.4325	0.3642												
017.43	4	4	9.7475	1.5420	9.7475	1.5420	0.5452	15.82%	1.5184	0.3800	1.5653	15.58%	3.90%	16.06%	4.1195	0.3750
018.34	1		0.0685													
018.41	1		0.0650													
018.42	1		0.0938													
018.43	1		0.2070													
018.52	1		0.1100													
019.00	12	12	0.7375	0.0518	0.7369	0.0308	0.0063	4.18%	0.0478	0.0283	0.0556	6.48%	3.84%	7.53%	1.9603	0.0329
019.03	3	3	0.7764	0.0881	0.7764	0.0881	0.0360	11.35%	0.0879	0.0092	0.0884	11.32%	1.18%	11.38%	9.6256	0.0108
019.05	1		0.6200													
019.08	8	8	0.7606	0.0638	0.7558	0.0627	0.0157	8.29%	0.0627	0.0168	0.0649	8.25%	2.20%	8.54%	3.8713	0.0213
019.31	28	27	0.7259	0.0443	0.7230	0.0373	0.0051	5.16%	0.0428	0.0161	0.0457	5.90%	2.22%	6.30%	2.8430	0.0184
019.32	13	13	0.6925	0.1057	0.7165	0.0630	0.0124	8.80%	0.1052	0.0146	0.1062	15.20%	2.11%	15.34%	7.2798	0.0150
019.33	1		0.7450													
019.41	38	37	0.7248	0.0443	0.7223	0.0442	0.0051	6.12%	0.0386	0.0308	0.0494	5.33%	4.24%	6.81%	1.6059	0.0323
019.42	21	20	0.7458	0.0567	0.7409	0.0464	0.0073	6.26%	0.0548	0.0205	0.0585	7.35%	2.74%	7.84%	2.8579	0.0202
019.43	13	13	0.7544	0.0714	0.7543	0.0700	0.0137	9.28%	0.0699	0.0207	0.0728	9.26%	2.74%	9.66%	3.5258	0.0245
019.52	1		0.7666													
019.53	1		0.7010													
019.99	4	4	0.8123	0.1248	0.8123	0.1248	0.0441	15.36%	0.1237	0.0223	0.1258	15.24%	2.75%	15.48%	5.6266	0.0235
020.31	1		9.5000													
020.32	1		7.9464													
020.41	1		12.1975													
020.42	3	3	15.0500	7.8901	15.0500	7.8901	3.2211	52.43%	7.8569	1.0222	7.9232	52.21%	6.79%	52.65%	7.7513	1.3200
020.43	2	2	21.4115	1.2777												
020.99	1		15.3450													
021.31	3	3	2.4917	0.2504	2.4917	0.2504	0.1022	10.05%	0.2146	0.1826	0.2818	8.61%	7.33%	11.31%	1.5428	0.2033
021.32	1		5.3690													

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 %/scl	Reproducibility %RSD	sR/sr	Average Range (R-bar)
021.33	1		1.9420													
021.34	1		2.0000													
021.41	6	6	2.2071	0.2362	2.2304	0.2209	0.0638	9.90%	0.2235	0.1081	0.2483	10.13%	4.90%	11.25%	2.2973	0.1170
021.42	4	4	2.1760	0.3852	2.1760	0.3852	0.1362	17.70%	0.3684	0.1590	0.4012	16.93%	7.31%	18.44%	2.5231	0.2140
021.43	4	4	2.8651	0.4016	2.8651	0.4016	0.1420	14.02%	0.3801	0.1831	0.4219	13.27%	6.39%	14.73%	2.3043	0.2343
021.52	1		2.9000													
022.31	17	16	17.6034	3.4295	17.0869	2.5354	0.4482	14.84%	3.3839	0.7876	3.4744	19.22%	4.47%	19.74%	4.4112	0.8598
022.32	5	5	34.3839	24.7996	34.3839	24.7996	7.8423	72.13%	24.7706	1.6980	24.8287	72.04%	4.94%	72.21%	14.6227	2.2364
022.41	31	28	16.2962	3.9340	16.2236	3.7294	0.4984	22.99%	3.8790	0.9267	3.9882	23.80%	5.69%	24.47%	4.3037	0.8776
022.42	19	19	24.6774	2.9908	24.5396	2.8945	0.4696	11.80%	2.9326	0.8304	3.0479	11.88%	3.36%	12.35%	3.6704	1.0137
022.43	14	14	23.5954	3.2991	23.2147	2.6475	0.5003	11.40%	3.1732	1.2767	3.4204	13.45%	5.41%	14.50%	2.6790	1.3978
022.52	1		29.0000													
022.53	1		23.7000													
023.01	3	3	0.0011	0.0001	0.0011	0.0001	0.0000	10.19%	0.0001	0.0000	0.0001	10.19%	0.00%	10.19%		0.0000
024.99	1		1.8000													
025.31	15	15	237.0633	17.8407	237.4581	19.3576	3.5342	8.15%	17.4338	5.3581	18.2386	7.35%	2.26%	7.69%	3.4039	5.7440
025.32	3	3	252.5318	40.5261	252.5318	40.5261	16.5447	16.05%	40.3289	5.6470	40.7223	15.97%	2.24%	16.13%	7.2113	7.4357
025.41	30	29	228.7647	30.2905	230.1163	19.7129	2.5884	8.57%	29.5791	9.2295	30.9856	12.93%	4.03%	13.54%	3.3572	8.9966
025.42	15	14	224.5825	47.7734	224.2100	53.3838	10.0886	23.81%	46.8319	13.3466	48.6966	20.85%	5.94%	21.68%	3.6486	14.2250
025.43	12	11	234.3310	35.3587	236.9944	28.4990	6.0760	12.03%	35.2285	4.2870	35.4884	15.03%	1.83%	15.14%	8.2782	4.5322
025.52	1		246.5000													
026.34	1		0.5080													
026.99	1		0.0000													
027.03	1		0.1900													
027.31	19	19	0.1924	0.0140	0.1913	0.0084	0.0014	4.39%	0.0131	0.0067	0.0148	6.83%	3.49%	7.67%	2.2002	0.0067
027.32	8	8	0.1921	0.0331	0.2008	0.0150	0.0038	7.47%	0.0330	0.0043	0.0333	17.18%	2.26%	17.33%	7.6530	0.0041
027.41	32	29	0.1946	0.0148	0.1934	0.0132	0.0017	6.81%	0.0142	0.0060	0.0154	7.29%	3.06%	7.91%	2.5835	0.0055
027.42	21	20	0.1965	0.0145	0.1952	0.0132	0.0021	6.78%	0.0140	0.0056	0.0151	7.12%	2.86%	7.67%	2.6874	0.0062
027.43	11	11	0.1925	0.0066	0.1924	0.0072	0.0015	3.77%	0.0052	0.0058	0.0078	2.68%	3.02%	4.04%	1.3379	0.0055
027.52	1		0.1930													
027.53	1		0.1915													
028.31	16	16	75.7850	5.3769	75.4066	4.9565	0.8762	6.57%	4.8528	3.2743	5.8542	6.40%	4.32%	7.72%	1.7879	4.1100
028.32	4	4	81.8359	10.2045	81.8359	10.2045	3.6078	12.47%	9.8033	4.0066	10.5905	11.98%	4.90%	12.94%	2.6433	4.6799
028.41	31	30	75.0239	8.8463	74.7212	7.8784	1.0171	10.54%	8.6812	2.4063	9.0085	11.57%	3.21%	12.01%	3.7437	2.4644
028.42	19	19	86.4968	8.3265	85.7511	5.8056	0.9418	6.77%	8.1378	2.4930	8.5111	9.41%	2.88%	9.84%	3.4140	2.6253
028.43	12	12	82.7536	6.6075	83.5734	5.7032	1.1642	6.82%	6.2724	2.9384	6.9265	7.58%	3.55%	8.37%	2.3573	3.0333
028.52	1		86.0000													
028.53	1		85.6000													

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)
029.99	1		0.0310													
031.00	2	2	0.3724	0.0119												
031.01	48	47	0.3699	0.0201	0.3698	0.0224	0.0023	6.06%	0.0183	0.0115	0.0217	4.96%	3.11%	5.85%	1.8832	0.0114
031.02	3	3	0.3683	0.0162	0.3683	0.0162	0.0066	4.40%	0.0120	0.0153	0.0195	3.27%	4.15%	5.29%	1.2727	0.0201
031.03	7	7	0.3815	0.0322	0.3795	0.0318	0.0085	8.39%	0.0310	0.0123	0.0334	8.13%	3.24%	8.75%	2.7053	0.0151
031.04	1		0.3650													
031.05	1		0.3300													
031.06	1		0.3450													
031.41	35	34	0.3727	0.0260	0.3724	0.0268	0.0032	7.19%	0.0236	0.0155	0.0282	6.34%	4.15%	7.58%	1.8241	0.0155
031.42	21	20	0.3641	0.0224	0.3658	0.0213	0.0034	5.83%	0.0201	0.0141	0.0245	5.52%	3.86%	6.74%	1.7434	0.0142
031.43	13	13	0.3650	0.0196	0.3635	0.0191	0.0037	5.25%	0.0174	0.0127	0.0216	4.77%	3.49%	5.91%	1.6959	0.0144
031.52	1		0.3584													
031.53	1		0.3530													
031.99	6	6	0.3811	0.0279	0.3730	0.0126	0.0036	3.39%	0.0245	0.0187	0.0309	6.44%	4.91%	8.10%	1.6491	0.0168
032.02	5	5	1.0119	0.0851	1.0119	0.0851	0.0269	8.41%	0.0701	0.0682	0.0978	6.93%	6.74%	9.67%	1.4343	0.0690
032.05	1		0.8700													
032.31	21	20	0.9193	0.1589	0.9624	0.0604	0.0095	6.27%	0.1586	0.0145	0.1593	17.25%	1.58%	17.32%	10.9708	0.0155
032.32	9	9	0.9578	0.1584	1.0231	0.0250	0.0059	2.44%	0.1581	0.0138	0.1587	16.51%	1.44%	16.57%	11.4703	0.0152
032.41	35	34	0.9623	0.0867	0.9665	0.0543	0.0066	5.62%	0.0843	0.0286	0.0890	8.76%	2.97%	9.25%	3.1110	0.0251
032.42	21	21	1.0314	0.0492	1.0315	0.0435	0.0067	4.22%	0.0481	0.0148	0.0503	4.66%	1.43%	4.88%	3.4063	0.0145
032.43	12	12	1.0292	0.0572	1.0224	0.0511	0.0104	5.00%	0.0557	0.0182	0.0586	5.41%	1.77%	5.69%	3.2139	0.0182
032.52	1		1.0225													
032.53	1		1.0125													
032.99	1		0.9300													
033.00	24	23	0.7448	0.1450	0.7728	0.0677	0.0100	8.76%	0.1443	0.0198	0.1457	19.38%	2.65%	19.56%	7.3722	0.0198
033.01	33	33	0.8020	0.0463	0.7965	0.0344	0.0042	4.31%	0.0440	0.0202	0.0484	5.49%	2.51%	6.04%	2.4022	0.0221
033.03	9	9	0.7108	0.1067	0.7265	0.0857	0.0202	11.80%	0.1048	0.0286	0.1086	14.74%	4.03%	15.28%	3.7929	0.0310
033.05	2	2	0.7525	0.0389												
033.99	10	10	0.8404	0.3360	0.7604	0.1074	0.0240	14.12%	0.3353	0.0316	0.3368	39.90%	3.76%	40.08%	10.6638	0.0361
034.01	1		0.5210													
034.04	8	7	0.4554	0.0756	0.4554	0.0857	0.0229	18.82%	0.0715	0.0349	0.0795	15.69%	7.66%	17.46%	2.2795	0.0323
034.41	3	3	0.4120	0.2538	0.4120	0.2538	0.1036	61.60%	0.2529	0.0305	0.2547	61.38%	7.40%	61.82%	8.3549	0.0347
034.42	1		1.1850													
034.52	2	2	0.6378	0.2082												
034.99	2	2	0.5943	0.1282												
035.01	1		0.2050													
035.03	1		0.2400													
035.05	6	6	0.2481	0.0080	0.2485	0.0081	0.0023	3.27%		0.0167			6.73%			0.0187

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)
035.31	19	19	0.2309	0.0254	0.2295	0.0233	0.0038	10.16%	0.0247	0.0081	0.0261	10.72%	3.52%	11.28%	3.2014	0.0085
035.32	6	6	0.2498	0.0326	0.2602	0.0156	0.0045	5.98%	0.0324	0.0043	0.0327	12.97%	1.71%	13.09%	7.6499	0.0042
035.41	33	32	0.2438	0.0324	0.2399	0.0236	0.0029	9.82%	0.0317	0.0098	0.0332	12.99%	4.02%	13.60%	3.3805	0.0104
035.42	19	19	0.2533	0.0337	0.2439	0.0203	0.0033	8.34%	0.0327	0.0115	0.0347	12.92%	4.56%	13.70%	3.0069	0.0108
035.43	11	11	0.2451	0.0129	0.2453	0.0125	0.0027	5.11%	0.0119	0.0071	0.0138	4.84%	2.90%	5.64%	1.9465	0.0075
035.52	1		0.2503													
035.53	1		0.2460													
036.00	1		0.3150													
036.03	1		0.1600													
036.04	1		0.1750													
036.42	17	17	0.1750	0.0142	0.1772	0.0117	0.0020	6.59%	0.0137	0.0051	0.0146	7.82%	2.92%	8.35%	2.8575	0.0062
036.43	11	11	0.1980	0.0445	0.1853	0.0157	0.0034	8.50%	0.0443	0.0045	0.0446	22.39%	2.25%	22.50%	9.9809	0.0042
036.99	1		0.2065													
037.31	18	18	75.7241	12.8781	76.2043	10.9915	1.8319	14.42%	12.6241	3.5996	13.1272	16.67%	4.75%	17.34%	3.6468	3.9604
037.32	6	6	92.3629	14.9202	92.9200	15.6982	4.5317	16.89%	14.6292	4.1473	15.2057	15.84%	4.49%	16.46%	3.6664	4.0981
037.41	31	29	82.2028	20.0388	80.2016	16.1872	2.1255	20.18%	19.9087	3.2238	20.1680	24.22%	3.92%	24.53%	6.2560	2.9936
037.42	20	20	98.6048	21.3762	94.2772	7.8179	1.2361	8.29%	21.2588	3.1635	21.4929	21.56%	3.21%	21.80%	6.7940	3.2995
037.43	13	12	92.9311	16.1127	88.5400	6.0877	1.2426	6.88%	16.0614	1.8170	16.1639	17.28%	1.96%	17.39%	8.8958	2.1488
037.52	1		90.0000													
037.53	1		85.6000													
038.31	1		2.0000													
038.34	1		0.4820													
038.41	2	2	2.0620	0.0396												
038.42	3	3	1.4810	0.4751	1.4810	0.4751	0.1940	32.08%	0.4512	0.2102	0.4978	30.47%	14.20%	33.61%	2.3679	0.2427
038.43	4	4	1.6955	1.1430	1.6955	1.1430	0.4041	67.41%	1.1269	0.2696	1.1587	66.47%	15.90%	68.34%	4.2978	0.2140
038.52	1		2.5500													
039.31	1		9.8500													
039.41	1		12.3495													
039.42	2	2	9.7200	4.9780												
039.43	1		12.5875													
039.52	1		14.1000													
040.42	1		6.0000													
040.43	1		5.8820													
041.41	1		0.5670													
041.43	1		1.0905													
051.00	8	7	60.6106	7.0234	62.0814	4.2927	1.1473	6.91%	6.9319	1.5986	7.1138	11.44%	2.64%	11.74%	4.4501	2.0116
051.03	6	6	69.8492	17.7650	66.9337	13.4355	3.8785	20.07%	17.3941	5.1068	18.1283	24.90%	7.31%	25.95%	3.5498	5.0417
051.99	1		71.7750													

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)
073.00	1		66.5000													
082.00	2	2	0.0066	0.0001												
082.01	8	8	0.0059	0.0016	0.0060	0.0011	0.0003	18.79%	0.0016	0.0003	0.0016	27.51%	5.30%	28.02%	5.2826	0.0004
082.02	3	3	20.0047	34.6369	20.0047	34.6369	14.1405	173.14%	34.6177	1.6330	34.6562	173.05%	8.16%	173.24%	21.2225	1.3335
104.00	1		3.1900													
105.00	1		0.6680													
106.00	1		22.4000													
106.02	16	15	5.8176	1.6690	5.5261	0.9857	0.1800	17.84%	1.6508	0.3479	1.6870	28.38%	5.98%	29.00%	4.8499	0.3392
108.02	3	3	0.5417	0.0884	0.5417	0.0884	0.0361	16.31%	0.0849	0.0349	0.0917	15.67%	6.44%	16.94%	2.6302	0.0367
109.02	6	5	7.3620	5.8551	7.3620	5.8551	1.8515	79.53%	5.8535	0.1888	5.8566	79.51%	2.56%	79.55%	31.0224	0.2040
120.00	15	15	0.5951	0.1445	0.5617	0.0402	0.0073	7.15%	0.1439	0.0178	0.1450	24.18%	2.99%	24.37%	8.1400	0.0177
120.05	3	3	0.5365	0.0298	0.5365	0.0298	0.0122	5.56%	0.0256	0.0218	0.0336	4.76%	4.06%	6.26%	1.5424	0.0270
120.99	1		0.5900													
121.00	15	15	0.6395	0.2026	0.5886	0.0456	0.0083	7.74%	0.2021	0.0197	0.2031	31.60%	3.08%	31.75%	10.2926	0.0181
121.05	3	3	0.6067	0.0088	0.6067	0.0088	0.0036	1.45%		0.0470			7.75%			0.0633
121.99	1		0.5100													
122.00	14	14	0.9380	0.3393	0.8524	0.0672	0.0127	7.89%	0.3388	0.0278	0.3399	36.11%	2.96%	36.23%	12.2378	0.0268
122.05	3	3	0.8812	0.0495	0.8812	0.0495	0.0202	5.62%	0.0233	0.0618	0.0660	2.64%	7.01%	7.50%	1.0685	0.0750
122.99	1		1.0600													
123.99	1		1.7200													
124.00	14	13	0.2033	0.0769	0.1751	0.0071	0.0014	4.05%	0.0768	0.0076	0.0771	37.75%	3.74%	37.94%	10.1340	0.0060
124.02	1		0.1850													
124.05	1		0.2265													
124.99	1		0.185													
125.00	15	13	1.5145731	0.0727071	1.5145731	0.0824499	0.01617	5.44%	0.0677275	0.037398	0.0773668	4.47%	2.47%	5.11%	2.068742	0.040177
125.05	3	3	1.4821667	0.0602834	1.4821667	0.0602834	0.024611	4.07%	0.011547	0.083675	0.0844679	0.78%	5.65%	5.70%	1.009477	0.107667
126.00	15	13	0.4660769	0.0307231	0.4658883	0.0344395	0.006754	7.39%	0.0289015	0.014739	0.0324427	6.20%	3.16%	6.96%	2.201181	0.014769
126.05	3	3	0.4645	0.0306309	0.4645	0.0306309	0.012505	6.59%	0.0246272	0.025758	0.0356371	5.30%	5.55%	7.67%	1.383507	0.036333
126.99	1		0.49													
127.00	15	15	0.2813833	0.0847922	0.2568871	0.0216518	0.003953	8.43%	0.0843991	0.011534	0.0851836	29.99%	4.10%	30.27%	7.385197	0.0129
127.05	3	3	0.2655	0.0261868	0.2655	0.0261868	0.010691	9.86%	0.0218556	0.0204	0.029897	8.23%	7.68%	11.26%	1.46553	0.028333
127.99	1		0.27													
128.00	15	14	0.3681071	0.1123943	0.3423506	0.0324238	0.006128	9.47%	0.112046	0.012503	0.1127414	30.44%	3.40%	30.63%	9.017253	0.012643
128.05	3	3	0.3321667	0.0334527	0.3321667	0.0334527	0.013657	10.07%	0.0321092	0.013273	0.0347443	9.67%	4.00%	10.46%	2.617711	0.017667
128.99	1		0.395													
129.00	15	15	0.8027167	0.2616866	0.7380994	0.0581123	0.01061	7.87%	0.2609727	0.027317	0.2623985	32.51%	3.40%	32.69%	9.605742	0.025887
129.05	3	3	0.7333333	0.0424392	0.7333333	0.0424392	0.017326	5.79%	0.0367684	0.029972	0.0474368	5.01%	4.09%	6.47%	1.582693	0.039333
129.99	1		0.91													

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)
130.00	15	14	0.4581429	0.0345133	0.4598214	0.0308763	0.005835	6.71%	0.0327051	0.015591	0.0362314	7.14%	3.40%	7.91%	2.323828	0.015129
130.05	4	4	0.452125	0.0361164	0.452125	0.0361164	0.012769	7.99%	0.0302131	0.027984	0.041182	6.68%	6.19%	9.11%	1.471608	0.02825
130.99	1		0.55													
131.00	14	14	0.158975	0.0759211	0.1417354	0.0131032	0.002476	9.24%	0.0757657	0.006866	0.0760762	47.66%	4.32%	47.85%	11.08048	0.007593
131.02	1		0.1695													
131.05	2	2	0.1175	0.046669												
131.99	2	2	0.1525	0.0318198												
132.00	15	15	0.44799	0.1499307	0.4168844	0.0332588	0.006072	7.98%	0.1496717	0.012459	0.1501893	33.41%	2.78%	33.53%	12.05493	0.01306
132.05	3	3	0.439	0.0320468	0.439	0.0320468	0.013083	7.30%	0.0243653	0.029439	0.0382143	5.55%	6.71%	8.70%	1.298075	0.041333
132.99	1		0.44													
133.00	15	15	0.6850067	0.2503214	0.6062244	0.0518371	0.009464	8.55%	0.2499711	0.018723	0.2506713	36.49%	2.73%	36.59%	13.38864	0.01784
133.05	3	3	0.6238333	0.0452337	0.6238333	0.0452337	0.018467	7.25%	0.0436692	0.016678	0.0467458	7.00%	2.67%	7.49%	2.802785	0.022333
133.99	1		0.67													
134.00	15	14	0.4993357	0.1703854	0.4565135	0.0392506	0.007418	8.60%	0.1703059	0.007361	0.1704649	34.11%	1.47%	34.14%	23.15938	0.007457
134.05	3	3	0.4766667	0.025658	0.4766667	0.025658	0.010475	5.38%	0.0220605	0.018529	0.0288097	4.63%	3.89%	6.04%	1.554823	0.026
134.99	1		0.52													
135.00	15	15	0.4314567	0.1473246	0.3882687	0.0283651	0.005179	7.31%	0.1470779	0.012053	0.1475709	34.09%	2.79%	34.20%	12.24344	0.01162
135.05	4	4	0.39425	0.0137447	0.39425	0.0137447	0.004859	3.49%	0.008827	0.0149	0.0173181	2.24%	3.78%	4.39%	1.162315	0.019
135.99	1		0.42													
136.00	2	2	0.09075	0.003182												
136.01	4	4	0.1124625	0.0318301	0.1124625	0.0318301	0.011254	28.30%	0.0302454	0.014026	0.0333395	26.89%	12.47%	29.64%	2.376931	0.011675
136.03	2	2	0.11025	0.0144957												
136.99	3	3	0.1345	0.059146	0.1345	0.059146	0.024146	43.97%	0.0587012	0.010239	0.0595875	43.64%	7.61%	44.30%	5.819762	0.011
137.00	8	8	0.2991125	0.0329831	0.2930689	0.0186991	0.004675	6.38%	0.0311868	0.015183	0.0346865	10.43%	5.08%	11.60%	2.284506	0.01745
137.05	3	3	0.2941667	0.0447446	0.2941667	0.0447446	0.018267	15.21%	0.0432127	0.016416	0.0462259	14.69%	5.58%	15.71%	2.815827	0.015
137.99	1		0.36													
138.00	14	14	0.4723214	0.1044109	0.451203	0.0450926	0.008522	9.99%	0.1038248	0.015624	0.1049938	21.98%	3.31%	22.23%	6.720062	0.015643
138.05	3	3	0.4288333	0.0391354	0.4288333	0.0391354	0.015977	9.13%	0.0366265	0.019498	0.041493	8.54%	4.55%	9.68%	2.128078	0.026333
138.99	1		0.49													
139.00	2	2	0.294925	0.3463763												
140.01	1		0.029													
142.00	1		0.029													
300.01	1		1.7													
300.20	1		0.56													