

AAFCO Check Sample Program

Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201227

Sheep and Goat Grower/Finisher, 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
000.01	2	2	0.65000	0.91924													
001.00	11	8	9.0663	0.65600	9.0663	0.74390	0.18598	8.21%	0.65084	0.11614	0.66112	7.18%	1.28%	7.29%	5.6926	0.10250	2.87%
001.03	25	22	8.5116	0.25692	8.4734	0.18683	0.02817	2.20%	0.25668	0.01574	0.25716	3.02%	0.18%	3.02%	16.334	0.01902	2.90%
001.07	38	36	8.4678	0.55947	8.5759	0.37579	0.04429	4.38%	0.47870	0.10817	0.49077	5.65%	1.28%	5.80%	4.5372	0.12539	2.89%
001.08	4	4	8.6925	0.29806	8.6925	0.29806	0.10538	3.43%	0.28448	0.12580	0.31105	3.27%	1.45%	3.58%	2.4727	0.16000	2.89%
001.99	17	16	8.6203	0.77727	8.7556	0.58169	0.10283	6.64%	0.77060	0.14371	0.78389	8.94%	1.67%	9.09%	5.4546	0.13938	2.88%
002.00	5	5	15.015	0.42220	15.015	0.42220	0.13351	2.81%	0.41164	0.13270	0.43250	2.74%	0.88%	2.88%	3.2592	0.10600	2.66%
002.01	11	10	15.098	0.19527	15.075	0.15134	0.03384	1.00%	0.19370	0.03492	0.19682	1.28%	0.23%	1.30%	5.6370	0.04080	2.66%
002.02	7	6	15.186	0.22564	15.159	0.19094	0.05512	1.26%	0.22342	0.04464	0.22784	1.47%	0.29%	1.50%	5.1039	0.04225	2.65%
002.03	1		15.240														
002.04	8	7	15.747	1.5780	15.356	0.77298	0.20659	5.03%	0.54436	0.10559	0.55451	3.46%	0.67%	3.52%	5.2514	0.11714	2.65%
002.05	50	47	15.171	0.68945	15.159	0.22852	0.02357	1.51%	0.24019	0.05331	0.24604	1.58%	0.35%	1.62%	4.6156	0.05071	2.65%
002.06	222	141	15.292	0.36826	15.286	0.32249	0.01920	2.11%	0.32039	0.14386	0.35120	2.10%	0.94%	2.30%	2.4412	0.13261	2.65%
002.08	4	4	15.112	0.34461	15.112	0.34461	0.12184	2.28%	0.34088	0.07153	0.34830	2.26%	0.47%	2.30%	4.8695	0.05885	2.66%
002.10	2	2	15.210	0.07071													
002.11	7	7	15.040	0.68940	14.939	0.55608	0.14862	3.72%	0.68708	0.07982	0.69170	4.57%	0.53%	4.60%	8.6656	0.09714	2.66%
002.99	5	5	15.463	0.37294	15.463	0.37294	0.11793	2.41%	0.35339	0.16849	0.39151	2.29%	1.09%	2.53%	2.3236	0.19800	2.65%
003.00	23	22	4.0140	0.44087	4.0433	0.41988	0.06330	10.38%	0.34294	0.10764	0.35944	8.54%	2.68%	8.95%	3.3393	0.09621	3.24%
003.01	1		2.8450														
003.05	1		3.6650														
003.06	20	20	3.6725	0.24966	3.7109	0.16592	0.02623	4.47%	0.13911	0.07664	0.15883	3.79%	2.09%	4.32%	2.0724	0.08500	3.28%
003.09	22	22	3.9307	0.33673	3.8901	0.20444	0.03082	5.26%	0.21494	0.04977	0.22063	5.47%	1.27%	5.61%	4.4329	0.05152	3.25%
003.10	42	40	3.6248	0.23822	3.6067	0.19407	0.02170	5.38%	0.20467	0.08575	0.22191	5.65%	2.37%	6.12%	2.5879	0.08128	3.29%
003.11	7	6	3.9375	0.50074	3.7468	0.17399	0.05023	4.64%	0.50032	0.02901	0.50116	12.71%	0.74%	12.73%	17.274	0.03167	3.27%
003.12	23	22	3.6577	0.35275	3.6752	0.17599	0.02653	4.79%	0.25746	0.03151	0.25938	7.04%	0.86%	7.09%	8.2317	0.03015	3.28%
003.13	7	7	3.7536	0.25496	3.7228	0.21733	0.05808	5.84%	0.24791	0.08420	0.26182	6.60%	2.24%	6.98%	3.1095	0.08514	3.28%
003.14	30	29	3.7802	0.26627	3.7710	0.27463	0.03606	7.28%	0.25248	0.11960	0.27938	6.68%	3.16%	7.39%	2.3359	0.11355	3.27%

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003.99	9	7	3.3243	0.48278	3.3107	0.52731	0.14093	15.93%	0.38377	0.41425	0.56469	11.54%	12.46%	16.99%	1.3632	0.31429	3.33%
004.00	26	26	14.625	0.71317	14.577	0.55214	0.07657	3.79%	0.69759	0.20965	0.72842	4.77%	1.43%	4.98%	3.4744	0.21973	2.67%
004.01	2	2	16.425	0.31820													
004.03	4	4	14.568	1.3897	14.568	1.3897	0.49134	9.54%	1.3809	0.22119	1.3985	9.48%	1.52%	9.60%	6.3226	0.28500	2.67%
004.06	49	48	14.697	1.0554	14.698	0.79794	0.08144	5.43%	1.0495	0.15712	1.0612	7.14%	1.07%	7.22%	6.7538	0.14104	2.67%
004.07	62	62	14.775	1.1464	14.607	0.86526	0.07770	5.92%	1.0442	0.26135	1.0764	7.07%	1.77%	7.29%	4.1186	0.27469	2.67%
004.11	7	7	13.761	1.3090	13.839	1.3055	0.34890	9.43%	1.3061	0.12395	1.3120	9.49%	0.90%	9.53%	10.584	0.13857	2.69%
004.99	5	5	13.825	1.2647	13.825	1.2647	0.39993	9.15%	1.2471	0.29707	1.2820	9.02%	2.15%	9.27%	4.3156	0.37000	2.69%
005.00	198	120	7.5818	0.28271	7.5938	0.29285	0.01890	3.86%	0.27758	0.07585	0.28775	3.66%	1.00%	3.80%	3.7939	0.07613	2.94%
005.03	1		7.2000														
005.05	31	29	7.7386	0.36972	7.7567	0.23585	0.03097	3.04%	0.28865	0.02343	0.28960	3.73%	0.30%	3.74%	12.361	0.02440	2.93%
005.11	4	4	8.3113	1.2659	8.3113	1.2659	0.44758	15.23%	1.2625	0.13281	1.2694	15.19%	1.60%	15.27%	9.5585	0.14250	2.90%
005.99	13	12	7.6913	0.41701	7.7601	0.27444	0.05602	3.54%	0.19013	0.15365	0.24445	2.47%	2.00%	3.18%	1.5909	0.14583	2.93%
006.00	2	2	2.4570	2.5074													
006.99	3	3	5.2850	2.2504	5.2850	2.2504	0.91871	42.58%	2.2449	0.22275	2.2559	42.48%	4.21%	42.68%	10.127	0.25667	3.11%
008.02	13	13	18.882	1.1629	18.976	1.0387	0.20371	5.47%	1.1523	0.22131	1.1734	6.10%	1.17%	6.21%	5.3021	0.24615	2.57%
008.05	1		19.550														
008.08	31	31	18.361	0.90757	18.326	0.70443	0.08946	3.84%	0.86988	0.36600	0.94375	4.74%	1.99%	5.14%	2.5785	0.36312	2.58%
008.99	3	3	16.882	3.1886	16.882	3.1886	1.3017	18.89%	3.1873	0.12916	3.1899	18.88%	0.77%	18.90%	24.697	0.13667	2.61%
009.04	1		38.035														
009.07	11	10	37.668	1.0192	37.777	0.89196	0.19945	2.36%	0.97860	0.40259	1.0582	2.60%	1.07%	2.81%	2.6284	0.42700	2.31%
009.09	27	27	35.552	1.3209	35.483	1.2057	0.16408	3.40%	1.3035	0.30212	1.3380	3.67%	0.85%	3.76%	4.4288	0.34207	2.34%
009.99	2	2	34.190	3.4931													
010.03	4	4	7.9914	2.1272	7.9914	2.1272	0.75208	26.62%	2.1234	0.18049	2.1310	26.57%	2.26%	26.67%	11.807	0.20903	2.92%
010.11	5	5	8.7130	0.99885	8.7130	0.99885	0.31587	11.46%	0.99616	0.10368	1.0015	11.43%	1.19%	11.49%	9.6597	0.12200	2.88%
010.99	12	11	8.6881	0.54705	8.5396	0.16959	0.03616	1.99%	0.22398	0.09801	0.24448	2.58%	1.13%	2.81%	2.4946	0.10756	2.89%
011.01	160	81	9.8329	0.55842	9.8140	0.42333	0.03326	4.31%	0.44240	0.17072	0.47419	4.50%	1.74%	4.82%	2.7776	0.14209	2.83%
011.02	4	2	9.2700	0.09899	9.2700	0.09899	0.04950	1.07%								0.10000	2.86%
011.99	2	2	9.3225	0.10960													
012.00	10	9	16.533	0.43364	16.493	0.24219	0.05709	1.47%	0.42401	0.12854	0.44306	2.56%	0.78%	2.68%	3.4469	0.13333	2.62%
012.01	6	6	13.897	1.1630	13.826	1.1624	0.33557	8.41%	1.0282	0.76861	1.2838	7.40%	5.53%	9.24%	1.6702	0.80755	2.69%
012.03	4	4	14.478	1.4302	14.478	1.4302	0.50566	9.88%	1.4174	0.27042	1.4430	9.79%	1.87%	9.97%	5.3361	0.30000	2.67%
012.04	6	6	14.952	1.8488	14.248	0.58417	0.16864	4.10%	1.8473	0.10559	1.8503	12.36%	0.71%	12.38%	17.523	0.11000	2.68%
012.11	3	3	18.268	2.1765	18.268	2.1765	0.88855	11.91%	2.1660	0.30114	2.1869	11.86%	1.65%	11.97%	7.2621	0.30333	2.58%
013.00	19	18	4.8184	0.55144	4.8552	0.52083	0.08681	10.73%	0.54286	0.13704	0.55989	11.27%	2.84%	11.62%	4.0857	0.14909	3.15%
013.02	104	32	4.9399	0.48140	4.9079	0.42504	0.05313	8.66%	0.35727	0.12828	0.37961	7.23%	2.60%	7.68%	2.9591	0.14468	3.14%
013.03	1		2.0877														
013.10	11	9	4.5580	0.38680	4.6448	0.18163	0.04281	3.91%	0.32804	0.28986	0.43775	7.20%	6.36%	9.60%	1.5102	0.26561	3.17%

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013.12	3	2	9.2450	7.2761	9.2450	7.2761	3.6381	78.70%								0.01000	2.86%
013.13	3	3	5.1150	0.53752	5.1150	0.53752	0.21944	10.51%	0.52398	0.16956	0.55073	10.24%	3.31%	10.77%	3.2480	0.22333	3.12%
015.41	5	5	61.286	8.8693	61.286	8.8693	2.8047	14.47%	8.7810	1.7662	8.9568	14.33%	2.88%	14.61%	5.0713	2.3638	8.57%
015.42	2	2	53.600	14.001													
015.43	3	3	66.713	10.122	66.713	10.122	4.1322	15.17%	10.042	1.7916	10.201	15.05%	2.69%	15.29%	5.6936	1.9800	8.46%
015.52	1		84.629														
015.53	1		70.000														
016.00	1		0.06600														
016.42	1		0.00000														
016.53	1		0.00000														
017.41	2	2	8.5225	0.66822													
017.42	4	4	6.3200	4.2571	6.3200	4.2571	1.5051	67.36%	4.1254	1.4860	4.3849	65.28%	23.51%	69.38%	2.9507	1.2800	12.05%
017.43	3	3	9.4467	0.82616	9.4467	0.82616	0.33728	8.75%	0.80108	0.28566	0.85049	8.48%	3.02%	9.00%	2.9773	0.32000	11.34%
017.53	1		8.4000														
018.34	1		0.06455														
018.41	1		0.11775														
018.42	1		0.00000														
018.52	1		0.11550														
018.53	1		0.11705														
019.00	34	33	1.3206	0.06385	1.3135	0.05224	0.00643	3.98%	0.05032	0.01716	0.05316	3.81%	1.30%	4.03%	3.0981	0.01690	3.83%
019.03	4	4	1.3525	0.06038	1.3525	0.06038	0.02135	4.46%	0.05959	0.01373	0.06115	4.41%	1.02%	4.52%	4.4540	0.01750	3.81%
019.08	10	10	1.3090	0.09414	1.3121	0.09319	0.02084	7.10%	0.09324	0.01841	0.09504	7.12%	1.41%	7.26%	5.1613	0.01994	3.83%
019.31	31	31	1.2854	0.11053	1.3084	0.05178	0.00658	3.96%	0.07841	0.02608	0.08263	6.10%	2.03%	6.43%	3.1685	0.02536	3.83%
019.32	9	8	1.3431	0.02743	1.3431	0.03111	0.00778	2.32%	0.02535	0.01482	0.02937	1.89%	1.10%	2.19%	1.9818	0.01201	3.82%
019.33	3	3	1.3872	0.09048	1.3872	0.09048	0.03694	6.52%	0.08488	0.04431	0.09575	6.12%	3.19%	6.90%	2.1609	0.05300	3.80%
019.41	43	43	1.3342	0.05764	1.3350	0.04288	0.00462	3.21%	0.05260	0.03332	0.06227	3.94%	2.50%	4.67%	1.8687	0.03360	3.82%
019.42	22	21	1.3504	0.07882	1.3529	0.05568	0.00859	4.12%	0.05650	0.02521	0.06187	4.18%	1.87%	4.58%	2.4541	0.02607	3.81%
019.43	14	13	1.3411	0.07689	1.3568	0.04897	0.00960	3.61%	0.07632	0.01329	0.07747	5.69%	0.99%	5.78%	5.8309	0.01592	3.81%
019.52	2	2	1.2824	0.09560													
019.53	4	4	1.3339	0.05465	1.3339	0.05465	0.01932	4.10%	0.05059	0.02924	0.05843	3.79%	2.19%	4.38%	1.9982	0.02525	3.82%
019.99	4	4	1.0025	0.43990	1.0025	0.43990	0.15553	43.88%	0.43974	0.01658	0.44005	43.86%	1.65%	43.90%	26.536	0.02000	3.99%
020.41	2	2	4.4976	0.35691													
020.42	1		2.3550														
020.43	2	2	4.8050	2.3405													
020.52	1		3.6560														
020.53	1		4.2055														
021.31	1		1.7000														
021.33	1		0.89000														

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021.41	6	6	1.5416	0.43995	1.5485	0.48530	0.14009	31.34%	0.43850	0.05060	0.44141	28.44%	3.28%	28.63%	8.7238	0.05700	14.88%
021.42	4	4	1.4741	0.55609	1.4741	0.55609	0.19661	37.72%	0.55287	0.08451	0.55929	37.50%	5.73%	37.94%	6.6184	0.09175	14.99%
021.43	4	4	1.6988	0.11448	1.6988	0.11448	0.04048	6.74%	0.03376	0.15470	0.15834	1.99%	9.11%	9.32%	1.0235	0.16700	14.67%
021.52	2	2	1.0560	0.20365													
021.53	3	3	1.1315	0.54456	1.1315	0.54456	0.22231	48.13%	0.52039	0.22689	0.56770	45.99%	20.05%	50.17%	2.5021	0.25367	15.59%
022.31	13	13	13.815	2.2595	14.095	1.8834	0.36936	13.36%	2.2158	0.62580	2.3024	16.04%	4.53%	16.67%	3.6792	0.60100	10.68%
022.32	2	2	12.155	0.21920													
022.33	1		15.235														
022.35	1		14.000														
022.41	27	27	13.776	1.5800	13.765	1.7076	0.23237	12.40%	1.5185	0.61748	1.6392	11.02%	4.48%	11.90%	2.6547	0.62529	10.72%
022.42	17	16	15.625	1.7618	15.394	1.3242	0.23409	8.60%	1.6192	0.98181	1.8936	10.36%	6.28%	12.12%	1.9287	0.64938	10.54%
022.43	11	10	14.283	1.8620	13.923	1.0703	0.23932	7.69%	0.58641	0.77497	0.97183	4.11%	5.43%	6.80%	1.2540	0.76400	10.70%
022.52	1		12.638														
022.53	2	2	15.275	1.0960													
022.99	1		11.000														
025.31	16	15	268.94	52.101	261.36	21.518	3.9287	8.23%	29.645	3.1644	29.813	11.02%	1.18%	11.09%	9.4215	3.2567	6.89%
025.32	2	2	265.66	0.89449													
025.33	2	2	240.65	3.9209													
025.41	35	35	249.19	18.553	247.23	10.675	1.2760	4.32%	12.192	6.9829	14.050	4.89%	2.80%	5.64%	2.0120	7.2730	6.95%
025.42	19	19	236.08	62.677	247.40	17.276	2.8025	6.98%	25.660	9.0728	27.217	10.87%	3.84%	11.53%	2.9998	9.5616	6.95%
025.43	13	12	250.78	23.876	247.12	10.687	2.1814	4.32%	14.366	5.6274	15.429	5.73%	2.24%	6.15%	2.7417	6.1008	6.95%
025.52	1		200.23														
025.53	2	2	271.75	44.901													
025.99	1		225.50														
026.32	1		0.00000														
026.34	1		0.08350														
026.42	1		0.00000														
026.52	1		0.08530														
026.53	1		0.08550														
027.31	13	13	0.34468	0.03378	0.33907	0.01803	0.00354	5.32%	0.02269	0.00503	0.02324	6.58%	1.46%	6.74%	4.6172	0.00502	4.69%
027.32	5	5	0.34032	0.02083	0.34032	0.02083	0.00659	6.12%	0.01972	0.00949	0.02189	5.80%	2.79%	6.43%	2.3070	0.00604	4.69%
027.33	1		0.28750														
027.34	1		0.29950														
027.41	29	28	0.33566	0.01564	0.33627	0.01400	0.00187	4.16%	0.01501	0.00623	0.01625	4.47%	1.86%	4.84%	2.6084	0.00675	4.70%
027.42	17	16	0.34319	0.01392	0.34349	0.01465	0.00259	4.27%	0.01144	0.01123	0.01603	3.33%	3.27%	4.67%	1.4276	0.01172	4.68%
027.43	11	11	0.33650	0.01930	0.33689	0.02003	0.00427	5.95%	0.01907	0.00422	0.01953	5.67%	1.25%	5.80%	4.6324	0.00427	4.70%
027.52	1		0.27905														
027.53	2	2	0.32700	0.00424													

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)	Horwitz %RSD
027.99	1		0.24000														
028.31	15	15	110.77	5.0031	110.79	4.1180	0.75185	3.72%	4.8611	1.6741	5.1413	4.39%	1.51%	4.64%	3.0710	2.1013	7.84%
028.32	2	2	114.64	1.6157													
028.33	2	2	108.01	4.1557													
028.41	34	34	111.36	7.5546	110.44	5.6709	0.68770	5.13%	5.5208	3.0516	6.3081	4.96%	2.74%	5.66%	2.0671	2.7870	7.84%
028.42	20	20	115.27	6.7408	115.47	6.5660	1.0382	5.69%	6.1031	4.0472	7.3231	5.29%	3.51%	6.35%	1.8094	4.0445	7.79%
028.43	14	14	112.47	7.0868	113.79	4.9634	0.93800	4.36%	6.4648	4.1059	7.6584	5.75%	3.65%	6.81%	1.8652	3.8957	7.81%
028.52	1		101.40														
028.53	3	3	105.32	16.790	105.32	16.790	6.8544	15.94%	15.533	9.0153	17.959	14.75%	8.56%	17.05%	1.9921	11.900	7.90%
029.99	4	4	0.07114	0.13991	0.07114	0.13991	0.04947	196.68%	0.00104	0.00061	0.00121	1.47%	0.86%	1.70%	1.9754	0.02238	23.62%
031.01	70	67	0.64177	0.03409	0.64286	0.02321	0.00200	3.61%	0.03119	0.00918	0.03251	4.86%	1.43%	5.07%	3.5397	0.00971	4.26%
031.02	4	4	0.64826	0.01937	0.64826	0.01937	0.00685	2.99%	0.01696	0.01323	0.02151	2.62%	2.04%	3.32%	1.6258	0.01503	4.26%
031.03	7	7	0.63624	0.02885	0.63172	0.02139	0.00572	3.39%	0.02810	0.00926	0.02959	4.42%	1.46%	4.65%	3.1938	0.00881	4.28%
031.04	1		0.69500														
031.06	3	3	0.62067	0.03156	0.62067	0.03156	0.01289	5.09%	0.03017	0.01314	0.03290	4.86%	2.12%	5.30%	2.5041	0.01533	4.29%
031.41	42	41	0.63850	0.02672	0.63916	0.02456	0.00271	3.84%	0.02574	0.01012	0.02766	4.03%	1.58%	4.33%	2.7335	0.01066	4.27%
031.42	23	22	0.63882	0.03019	0.63975	0.02850	0.00430	4.46%	0.02604	0.02160	0.03383	4.08%	3.38%	5.30%	1.5666	0.01696	4.27%
031.43	14	13	0.66750	0.07299	0.65276	0.03376	0.00662	5.17%	0.02534	0.01200	0.02804	3.80%	1.80%	4.20%	2.3365	0.00946	4.25%
031.44	1		0.71000														
031.52	1		0.53430														
031.53	4	4	0.64600	0.02404	0.64600	0.02404	0.00850	3.72%	0.01926	0.02034	0.02801	2.98%	3.15%	4.34%	1.3772	0.02400	4.26%
031.99	6	6	0.65083	0.03666	0.64172	0.02059	0.00594	3.21%	0.03498	0.01555	0.03828	5.37%	2.39%	5.88%	2.4621	0.01833	4.27%
032.02	6	6	1.1180	0.08738	1.1180	0.09909	0.02861	8.86%	0.08357	0.03613	0.09104	7.47%	3.23%	8.14%	2.5200	0.04167	3.92%
032.31	17	16	1.1062	0.17102	1.1510	0.07411	0.01310	6.44%	0.17088	0.00981	0.17116	15.45%	0.89%	15.47%	17.444	0.00925	3.91%
032.32	3	3	1.1417	0.10153	1.1417	0.10153	0.04145	8.89%	0.10149	0.00408	0.10157	8.89%	0.36%	8.90%	24.880	0.00333	3.91%
032.33	1		1.2555														
032.41	27	25	1.1557	0.04163	1.1577	0.04222	0.00597	3.65%	0.03901	0.02053	0.04409	3.38%	1.78%	3.81%	2.1475	0.02295	3.90%
032.42	20	20	1.1816	0.05705	1.1808	0.05651	0.00893	4.79%	0.05310	0.02949	0.06074	4.49%	2.50%	5.14%	2.0600	0.02953	3.89%
032.43	11	11	1.1161	0.19569	1.1738	0.05168	0.01102	4.40%	0.05546	0.02467	0.06070	4.97%	2.21%	5.44%	2.4601	0.02036	3.90%
032.52	1		1.1014														
032.53	2	2	1.2225	0.03889													
032.99	1		1.0400														
033.00	43	42	1.3399	0.07475	1.3444	0.05706	0.00623	4.24%	0.05266	0.01529	0.05484	3.93%	1.14%	4.09%	3.5863	0.01590	3.82%
033.01	41	40	1.4260	0.08383	1.4205	0.02427	0.00271	1.71%	0.05709	0.02357	0.06177	4.00%	1.65%	4.33%	2.6207	0.01946	3.79%
033.03	7	7	1.2436	0.19362	1.2176	0.06524	0.01744	5.36%	0.19165	0.03901	0.19558	15.41%	3.14%	15.73%	5.0141	0.04429	3.87%
033.05	4	4	1.3038	0.08577	1.3038	0.08577	0.03032	6.58%	0.08515	0.01458	0.08639	6.53%	1.12%	6.63%	5.9260	0.01250	3.83%
033.99	10	9	1.1979	0.40623	1.2418	0.32834	0.07739	26.44%	0.40617	0.00959	0.40629	33.91%	0.80%	33.92%	42.358	0.01289	3.86%
034.04	9	8	0.51825	0.05086	0.52180	0.04983	0.01246	9.55%	0.04944	0.01686	0.05224	9.54%	3.25%	10.08%	3.0978	0.02200	17.51%

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034.42	2	2	0.00000	0.00000													
034.43	1		0.54000														
034.52	1		0.78000														
034.53	3	3	0.59117	0.08230	0.59117	0.08230	0.03360	13.92%	0.04183	0.10024	0.10862	7.08%	16.96%	18.37%	1.0836	0.11567	17.19%
035.01	3	3	0.34733	0.07679	0.34733	0.07679	0.03135	22.11%	0.07622	0.01314	0.07735	21.95%	3.78%	22.27%	5.8863	0.01533	4.68%
035.05	7	7	0.30011	0.01846	0.30011	0.02094	0.00560	6.98%	0.01778	0.00703	0.01912	5.92%	2.34%	6.37%	2.7200	0.00836	4.78%
035.31	17	16	0.32864	0.06767	0.30974	0.01249	0.00221	4.03%	0.06734	0.00948	0.06800	20.49%	2.89%	20.69%	7.1716	0.01025	4.76%
035.32	5	5	0.31081	0.03822	0.31081	0.03822	0.01209	12.30%	0.03783	0.00775	0.03861	12.17%	2.49%	12.42%	4.9801	0.00822	4.76%
035.33	1		0.30050														
035.41	31	30	0.29509	0.01359	0.29476	0.01354	0.00175	4.59%	0.01314	0.00492	0.01403	4.45%	1.67%	4.75%	2.8538	0.00390	4.79%
035.42	17	16	0.30719	0.02599	0.30298	0.01191	0.00210	3.93%	0.01099	0.00663	0.01283	3.58%	2.16%	4.18%	1.9355	0.00708	4.77%
035.43	11	11	0.29391	0.02701	0.29741	0.02045	0.00436	6.87%	0.01456	0.00926	0.01726	4.95%	3.15%	5.87%	1.8636	0.00982	4.79%
035.52	1		0.30340														
035.53	2	2	0.30675	0.01167													
036.00	1		0.24000														
036.04	3	3	0.23167	0.01155	0.23167	0.01155	0.00471	4.98%		0.00707			3.05%			0.01000	4.97%
036.42	19	18	0.23081	0.01327	0.23063	0.01360	0.00227	5.90%	0.01286	0.00459	0.01366	5.57%	1.99%	5.92%	2.9745	0.00521	4.97%
036.43	7	7	0.24143	0.02340	0.24214	0.02413	0.00645	9.97%	0.02181	0.01200	0.02489	9.03%	4.97%	10.31%	2.0743	0.01200	4.94%
036.53	1		0.21000														
036.99	1		0.19500														
037.31	17	17	113.16	7.2956	112.52	6.7324	1.1546	5.98%	6.9470	3.1511	7.6283	6.14%	2.78%	6.74%	2.4208	3.5491	7.82%
037.32	2	2	118.59	4.1224													
037.33	3	3	124.85	2.2833	124.85	2.2833	0.93217	1.83%	0.90188	2.9666	3.1006	0.72%	2.38%	2.48%	1.0452	3.0700	7.70%
037.41	35	34	112.04	9.8446	112.26	7.6106	0.92292	6.78%	8.0541	3.1775	8.6582	7.19%	2.84%	7.73%	2.7249	2.8792	7.83%
037.42	19	18	116.03	9.6024	118.94	5.3357	0.88928	4.49%	7.0003	3.0364	7.6305	6.03%	2.62%	6.58%	2.5130	3.4533	7.76%
037.43	13	13	115.88	10.574	115.02	7.7310	1.5162	6.72%	9.3852	6.8885	11.642	8.10%	5.94%	10.05%	1.6900	7.0679	7.80%
037.52	1		110.55														
037.53	3	3	109.67	8.0052	109.67	8.0052	3.2681	7.30%	6.7762	6.0277	9.0692	6.18%	5.50%	8.27%	1.5046	6.6667	7.85%
037.99	1		100.50														
038.41	3	3	1.6667	0.27039	1.6667	0.27039	0.11038	16.22%	0.25993	0.10529	0.28045	15.60%	6.32%	16.83%	2.6635	0.11300	14.71%
038.42	4	4	1.5700	0.42299	1.5700	0.42299	0.14955	26.94%	0.41497	0.11587	0.43085	26.43%	7.38%	27.44%	3.7185	0.15000	14.85%
038.43	5	5	1.7385	0.32664	1.7385	0.32664	0.10329	18.79%	0.31833	0.10355	0.33474	18.31%	5.96%	19.25%	3.2326	0.12740	14.62%
038.52	1		1.4135														
038.53	3	3	1.7968	0.05136	1.7968	0.05136	0.02097	2.86%		0.25558			14.22%			0.31033	14.55%
039.41	1		3.8620														
039.42	2	2	3.2400	1.8526													
039.52	1		3.2755														
039.53	1		3.2200														

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040.42	1		14.850														
041.42	1		0.00000														
054.01	6	6	5.8320	0.58868	5.8839	0.55609	0.16053	9.45%	0.57622	0.17040	0.60089	9.88%	2.92%	10.30%	3.5264	0.18867	10.82%
054.02	6	6	5.7583	0.24675	5.7769	0.24054	0.06944	4.16%	0.21651	0.16738	0.27367	3.76%	2.91%	4.75%	1.6350	0.18667	10.85%
100.01	1		0.05500														
101.02	2	2	518.68	120.95													
104.00	1		3.0000														
104.03	1		0.05855														
105.00	1		3.3150														
106.00	1		3.6500														
106.01	1		2.6450														
106.02	23	23	3.2216	0.89899	3.1771	0.92041	0.13571	28.97%	0.82377	0.50909	0.96838	25.57%	15.80%	30.06%	1.9022	0.49297	
106.99	1		2.5550														
108.01	2	2	0.41250	0.58336													
108.02	3	3	0.66167	0.34425	0.66167	0.34425	0.14054	52.03%	0.34015	0.07494	0.34831	51.41%	11.33%	52.64%	4.6475	0.07667	
109.00	1		58.000														
109.02	17	17	60.569	19.805	63.057	13.859	2.3767	21.98%	12.491	2.2508	12.692	20.62%	3.72%	20.95%	5.6388	2.1375	8.53%
120.00	18	17	0.71234	0.03265	0.70554	0.01652	0.00283	2.34%	0.02352	0.00978	0.02548	3.30%	1.37%	3.58%	2.6041	0.01101	4.20%
120.01	1		0.73200														
120.02	2	2	0.72755	0.01846													
120.05	3	3	0.68202	0.01575	0.68202	0.01575	0.00643	2.31%		0.02812			4.12%			0.03437	4.23%
120.99	1		0.73500														
121.00	18	17	0.85847	0.03531	0.85748	0.02121	0.00364	2.47%	0.02297	0.01262	0.02621	2.68%	1.47%	3.05%	2.0771	0.01249	4.08%
121.01	2	2	0.89375	0.02015													
121.02	2	2	0.88033	0.06177													
121.05	3	3	0.78117	0.04268	0.78117	0.04268	0.01742	5.46%	0.03810	0.02721	0.04682	4.88%	3.48%	5.99%	1.7208	0.03367	4.14%
121.99	1		1.0000														
122.00	18	18	1.1803	0.04559	1.1727	0.03295	0.00549	2.81%	0.04431	0.01520	0.04684	3.75%	1.29%	3.97%	3.0822	0.01677	3.90%
122.01	2	2	1.1583	0.00460													
122.02	2	2	1.1826	0.00983													
122.05	3	3	1.1380	0.05803	1.1380	0.05803	0.02369	5.10%	0.04642	0.04923	0.06767	4.08%	4.33%	5.95%	1.3744	0.05733	3.91%
122.99	1		1.0600														
123.99	2	2	2.2525	0.18031													
124.00	17	17	0.27218	0.02144	0.27263	0.02332	0.00400	8.55%	0.02045	0.00913	0.02239	7.51%	3.35%	8.23%	2.4537	0.00881	4.85%
124.01	2	2	0.25000	0.01414													
124.02	3	3	0.31447	0.07155	0.31447	0.07155	0.02921	22.75%	0.07155	0.00091	0.07155	22.75%	0.29%	22.75%	78.382	0.00100	4.75%
124.05	2	2	0.23875	0.10076													
124.99	1		0.21500														

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125.00	17	17	2.3695	0.11347	2.3561	0.10031	0.01720	4.26%	0.11074	0.03503	0.11615	4.67%	1.48%	4.90%	3.3154	0.03892	3.51%
125.01	2	2	2.3605	0.12092													
125.02	2	2	2.3274	0.07082													
125.05	3	3	2.1898	0.16561	2.1898	0.16561	0.06761	7.56%	0.14532	0.11232	0.18367	6.64%	5.13%	8.39%	1.6352	0.13300	3.55%
126.00	18	18	0.78238	0.03003	0.77944	0.02039	0.00340	2.62%	0.02734	0.01759	0.03251	3.49%	2.25%	4.15%	1.8478	0.01896	4.14%
126.01	2	2	0.82050	0.06081													
126.02	2	2	0.76913	0.04897													
126.05	3	3	0.76000	0.03592	0.76000	0.03592	0.01466	4.73%	0.02914	0.02969	0.04161	3.83%	3.91%	5.47%	1.4012	0.03067	4.16%
126.99	1		0.86000														
127.00	17	16	0.37459	0.02552	0.37429	0.02109	0.00373	5.64%	0.02463	0.00944	0.02638	6.57%	2.52%	7.04%	2.7929	0.01008	4.62%
127.01	2	2	0.32125	0.02581													
127.02	2	2	0.41435	0.07587													
127.05	3	3	0.34883	0.03027	0.34883	0.03027	0.01236	8.68%	0.02780	0.01692	0.03254	7.97%	4.85%	9.33%	1.9239	0.01767	4.67%
127.99	1		0.38500														
128.00	17	17	0.47306	0.02785	0.47197	0.01767	0.00303	3.74%	0.02546	0.01596	0.03005	5.38%	3.37%	6.35%	1.8825	0.01388	4.47%
128.01	2	2	0.50375	0.02581													
128.02	2	2	0.49625	0.01237													
128.05	3	3	0.44800	0.03512	0.44800	0.03512	0.01434	7.84%	0.02977	0.02634	0.03975	6.65%	5.88%	8.87%	1.5093	0.02733	4.50%
128.99	1		0.45000														
129.00	18	18	0.92218	0.02092	0.91996	0.01365	0.00228	1.48%	0.01955	0.01053	0.02220	2.12%	1.14%	2.41%	2.1088	0.01199	4.04%
129.01	2	2	0.92925	0.01591													
129.02	2	2	0.95620	0.00820													
129.05	3	3	0.89000	0.02100	0.89000	0.02100	0.00857	2.36%		0.04103			4.61%			0.04467	4.06%
129.99	1		0.93000														
130.00	17	17	0.66814	0.03197	0.66149	0.01453	0.00249	2.20%	0.01405	0.01121	0.01797	2.10%	1.68%	2.69%	1.6039	0.01185	4.25%
130.01	2	2	0.62175	0.02864													
130.02	2	2	0.63670	0.11766													
130.05	4	4	0.66450	0.02049	0.66450	0.02049	0.00724	3.08%		0.03270			4.92%			0.03500	4.24%
130.99	1		0.72000														
131.00	17	16	0.19033	0.01678	0.18763	0.01147	0.00203	6.11%	0.01156	0.00564	0.01286	6.07%	2.96%	6.76%	2.2807	0.00778	5.13%
131.01	2	2	0.18750	0.00283													
131.02	3	3	0.19815	0.01373	0.19815	0.01373	0.00560	6.93%	0.01336	0.00448	0.01409	6.74%	2.26%	7.11%	3.1470	0.00483	5.09%
131.05	3	3	0.16367	0.04972	0.16367	0.04972	0.02030	30.38%	0.04931	0.00902	0.05013	30.13%	5.51%	30.63%	5.5586	0.00800	5.24%
131.99	1		0.17500														
132.00	18	18	0.55727	0.02552	0.55695	0.02827	0.00471	5.08%	0.02469	0.00915	0.02633	4.43%	1.64%	4.72%	2.8767	0.01020	4.36%
132.01	2	2	0.55025	0.01520													
132.02	2	2	0.56183	0.02429													
132.05	3	3	0.50850	0.01882	0.50850	0.01882	0.00768	3.70%		0.02973			5.85%			0.02767	4.42%

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)	Horwitz %RSD
132.99	1		0.56500														
133.00	18	18	0.89362	0.05894	0.88737	0.04521	0.00754	5.09%	0.05814	0.01364	0.05972	6.51%	1.53%	6.68%	4.3769	0.01503	4.06%
133.04	1		0.87250														
133.05	4	4	0.89263	0.07001	0.89263	0.07001	0.02475	7.84%	0.06630	0.03179	0.07353	7.43%	3.56%	8.24%	2.3129	0.04075	4.06%
133.99	1		0.95500														
134.00	18	18	0.65083	0.06152	0.64378	0.02781	0.00463	4.32%	0.04041	0.01623	0.04355	6.21%	2.49%	6.69%	2.6826	0.01682	4.26%
134.01	2	2	0.63475	0.02581													
134.02	2	2	0.62585	0.07799													
134.05	3	3	0.62233	0.04846	0.62233	0.04846	0.01978	7.79%	0.04552	0.02350	0.05123	7.31%	3.78%	8.23%	2.1797	0.02400	4.28%
134.99	1		0.69000														
135.00	18	17	0.50348	0.03163	0.49774	0.01025	0.00176	2.06%	0.00646	0.01187	0.01351	1.28%	2.36%	2.68%	1.1387	0.01429	4.43%
135.01	2	2	0.48950	0.01202													
135.02	2	2	0.50000	0.02404													
135.05	3	3	0.48800	0.01555	0.48800	0.01555	0.00635	3.19%	0.00711	0.01955	0.02081	1.46%	4.01%	4.26%	1.0641	0.02267	4.44%
135.99	1		0.51500														
136.00	4	4	0.15626	0.04429	0.15626	0.04429	0.01566	28.35%	0.04387	0.00865	0.04471	28.07%	5.54%	28.61%	5.1682	0.00753	5.27%
136.01	5	5	0.17910	0.02328	0.17910	0.02328	0.00736	13.00%	0.02315	0.00348	0.02341	12.93%	1.94%	13.07%	6.7303	0.00380	5.16%
136.03	2	2	0.17550	0.00849													
136.99	3	3	0.16233	0.02875	0.16233	0.02875	0.01174	17.71%	0.02848	0.00548	0.02901	17.55%	3.37%	17.87%	5.2957	0.00600	5.24%
137.00	11	11	0.43766	0.04272	0.43525	0.04321	0.00921	9.93%	0.04179	0.01250	0.04362	9.55%	2.86%	9.97%	3.4900	0.01312	4.52%
137.01	2	2	0.47600	0.00849													
137.02	2	2	0.44665	0.06413													
137.05	3	3	0.36350	0.06201	0.36350	0.06201	0.02531	17.06%	0.06035	0.02012	0.06362	16.60%	5.54%	17.50%	3.1618	0.02100	4.64%
137.99	1		0.47500														
138.00	18	18	0.65089	0.04347	0.65435	0.03607	0.00601	5.51%	0.04129	0.01920	0.04554	6.34%	2.95%	7.00%	2.3724	0.01886	4.25%
138.01	2	2	0.69500	0.06647													
138.02	2	2	0.69895	0.03048													
138.05	3	3	0.55550	0.06110	0.55550	0.06110	0.02494	11.00%		0.12222			22.00%			0.12833	4.36%
138.99	1		0.68000														
139.00	2	2	0.13500	0.10607													
139.02	1		0.00000														
139.05	1		0.00000														
140.01	1		0.02400														
141.00	1		0.00400														
142.00	1		0.09250														
300.07	1		4.7000														