

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201331

Cattle grower, Medicated



AAFCO

Check Sample Program

Issue Date : 12/31/2013

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fip - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/srd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.02	1		0.30000														
001.00	10	7	8.3833	0.58569	8.5880	0.31773	0.08492	3.70%	0.58524	0.03259	0.58614	6.98%	0.39%	6.99%	17.987	0.04229	2.89%
001.03	14	12	8.7575	0.08738	8.7935	0.06680	0.01262	0.76%	0.08640	0.01848	0.08835	0.99%	0.21%	1.01%	4.7810	0.02159	2.88%
001.05	1		8.4750														
001.07	37	32	8.6219	0.26727	8.5719	0.23626	0.02824	2.76%	0.25844	0.09632	0.27581	3.00%	1.12%	3.20%	2.8634	0.11017	2.89%
001.08	2	0															
001.99	17	15	8.7730	0.37140	8.7303	0.34278	0.06060	3.93%	0.36960	0.05169	0.37320	4.21%	0.59%	4.25%	7.2195	0.05606	2.89%
002.00	4	3	16.663	0.15885	16.664	0.12970	0.04586	0.78%	0.12275	0.14259	0.18815	0.74%	0.86%	1.13%	1.3195	0.59250	2.62%
002.01	11	11	16.570	0.30755	16.570	0.34877	0.07436	2.10%	0.30399	0.06605	0.31108	1.83%	0.40%	1.88%	4.7100	0.06727	2.62%
002.02	6	6	16.626	0.13713	16.626	0.15550	0.04489	0.94%	0.12694	0.07335	0.14661	0.76%	0.44%	0.88%	1.9989	0.09307	2.62%
002.03	1		16.706														
002.04	6	5	16.286	0.47522	16.301	0.48376	0.13965	2.97%	0.47492	0.02366	0.47551	2.92%	0.15%	2.92%	20.094	0.04500	2.63%
002.05	39	35	16.505	0.19869	16.515	0.16633	0.01908	1.01%	0.19701	0.03647	0.20036	1.19%	0.22%	1.21%	5.4932	0.04242	2.62%
002.06	229	137	16.763	0.26954	16.765	0.26027	0.01518	1.55%	0.25934	0.10392	0.27938	1.55%	0.62%	1.67%	2.6884	0.12548	2.62%
002.07	2	0															
002.08	2	0															
002.10	2	0															
002.11	6	6	17.153	0.55639	17.197	0.55832	0.16117	3.25%	0.54374	0.16683	0.56876	3.17%	0.97%	3.32%	3.4091	0.20333	2.61%
002.99	4	4	16.648	0.11376	16.648	0.11376	0.04022	0.68%	0.07586	0.11990	0.14188	0.46%	0.72%	0.85%	1.1833	0.15500	2.62%
003.00	17	15	4.4964	0.41599	4.4704	0.46891	0.08042	10.49%	0.39794	0.17143	0.43329	8.85%	3.81%	9.64%	2.5275	0.25648	3.19%
003.01	2	0															
003.06	19	18	4.0991	0.19784	4.0933	0.14680	0.02447	3.59%	0.19522	0.04541	0.20043	4.76%	1.11%	4.89%	4.4134	0.04982	3.24%
003.07	1		3.1550														
003.09	23	18	4.2443	0.22443	4.2050	0.21539	0.03406	5.12%	0.22343	0.02993	0.22543	5.26%	0.71%	5.31%	7.5318	0.03689	3.22%
003.10	35	32	3.9570	0.27543	3.9122	0.23152	0.02850	5.92%	0.26085	0.12506	0.28928	6.59%	3.16%	7.31%	2.3131	0.12163	3.26%
003.11	5	5	4.2280	0.30030	4.2280	0.30030	0.09496	7.10%	0.29972	0.02646	0.30089	7.09%	0.63%	7.12%	11.372	0.03200	3.22%
003.12	10	10	4.0207	0.14895	4.0521	0.11224	0.02510	2.77%	0.14513	0.04739	0.15267	3.61%	1.18%	3.80%	3.2218	0.05117	3.24%

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003.13	9	8	4.1029	0.24524	4.0091	0.13931	0.03284	3.47%	0.23893	0.07815	0.25139	5.82%	1.90%	6.13%	3.2166	0.10056	3.25%
003.14	37	33	4.0806	0.41922	4.0305	0.21632	0.02549	5.37%	0.41300	0.10180	0.42536	10.12%	2.49%	10.42%	4.1784	0.12956	3.24%
003.99	10	5	4.0560	0.38153	3.9683	0.45722	0.13199	11.52%	0.37955	0.05495	0.38351	9.36%	1.35%	9.46%	6.9786	0.11667	3.25%
004.00	20	18	12.131	0.46910	12.233	0.55465	0.08770	4.53%	0.40857	0.32597	0.52267	3.37%	2.69%	4.31%	1.6034	0.39850	2.74%
004.01	2	0															
004.03	5	5	13.337	1.6628	13.337	1.6628	0.52584	12.47%	1.3756	1.3211	1.9073	10.31%	9.91%	14.30%	1.4437	1.1900	2.71%
004.06	37	34	12.513	0.81661	12.403	0.54486	0.06334	4.39%	0.80868	0.16057	0.82447	6.46%	1.28%	6.59%	5.1346	0.19239	2.74%
004.07	53	48	12.009	0.65040	11.966	0.57308	0.05674	4.79%	0.63219	0.21611	0.66811	5.26%	1.80%	5.56%	3.0915	0.26686	2.75%
004.11	5	4	12.546	0.42040	11.947	1.3885	0.43910	11.62%	0.37192	0.27720	0.46385	2.96%	2.21%	3.70%	1.6734	0.27000	2.75%
004.99	3	3	12.385	0.69478	12.385	0.69478	0.28364	5.61%	0.69259	0.07788	0.69696	5.59%	0.63%	5.63%	8.9490	0.07803	2.74%
005.00	191	106	9.8373	0.14280	9.8515	0.14312	0.00952	1.45%	0.13733	0.05534	0.14806	1.40%	0.56%	1.51%	2.6757	0.06614	2.83%
005.02	1		9.6800														
005.03	2	0															
005.04	1		3.1150														
005.05	28	25	10.016	0.13115	10.022	0.13958	0.01936	1.39%	0.12838	0.03792	0.13386	1.28%	0.38%	1.34%	3.5302	0.04035	2.83%
005.11	4	4	7.7188	1.3061	7.7188	1.3061	0.46176	16.92%	1.3056	0.04650	1.3065	16.92%	0.60%	16.93%	28.094	0.06250	2.94%
005.99	16	13	10.055	0.11664	10.075	0.07074	0.01292	0.70%	0.10805	0.06212	0.12463	1.07%	0.62%	1.24%	2.0064	0.07747	2.83%
006.00	2	0															
006.01	1		5.3500														
006.03	1		6.0000														
006.05	1		20.600														
006.99	8	8	5.3037	1.7293	5.3037	1.9610	0.49026	36.98%	1.7287	0.06704	1.7300	32.59%	1.26%	32.62%	25.807	0.06883	3.11%
008.02	15	13	17.514	3.6330	18.501	2.0032	0.37856	10.83%	3.6293	0.23157	3.6367	20.72%	1.32%	20.76%	15.705	0.33871	2.58%
008.05	1		18.800														
008.08	37	34	16.950	1.6408	17.292	1.5041	0.17726	8.70%	1.6299	0.26687	1.6516	9.62%	1.57%	9.74%	6.1890	0.33556	2.60%
008.99	2	0															
009.04	2	0															
009.07	9	8	36.481	1.3572	36.481	1.0847	0.25568	2.97%	1.3474	0.23029	1.3669	3.69%	0.63%	3.75%	5.9358	0.38022	2.33%
009.09	32	30	33.426	1.5997	33.177	1.3338	0.16939	4.02%	1.5810	0.34469	1.6182	4.73%	1.03%	4.84%	4.6946	0.42097	2.36%
009.99	4	4	31.535	11.156	31.535	11.156	3.9442	35.38%	11.152	0.40364	11.159	35.36%	1.28%	35.39%	27.647	0.42000	2.38%
010.03	4	4	6.9050	1.3036	6.9050	1.3036	0.46089	18.88%	1.2932	0.23257	1.3139	18.73%	3.37%	19.03%	5.6496	0.25563	2.99%
010.11	5	4	9.1925	0.55888	8.8390	0.92686	0.29310	10.49%	0.55864	0.02291	0.55911	6.08%	0.25%	6.08%	24.402	0.05400	2.88%
010.99	12	10	8.6526	0.21392	8.6978	0.26226	0.05591	3.02%	0.20911	0.06376	0.21862	2.42%	0.74%	2.53%	3.4288	0.07717	2.89%
011.01	167	78	10.052	0.43917	10.098	0.40028	0.03126	3.96%	0.43398	0.09518	0.44429	4.32%	0.95%	4.42%	4.6679	0.11450	2.82%
011.02	5	5	9.8499	0.46339	9.8499	0.46339	0.14654	4.70%	0.40527	0.31775	0.51498	4.11%	3.23%	5.23%	1.6207	0.38834	2.83%
011.03	1		8.9050														
011.99	2	0															
012.00	11	9	12.349	0.54570	12.474	0.47595	0.10642	3.82%	0.54255	0.08280	0.54884	4.39%	0.67%	4.44%	6.6286	0.08300	2.74%

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012.01	5	5	11.316	1.1445	11.316	1.1445	0.36192	10.11%	1.1152	0.36397	1.1731	9.86%	3.22%	10.37%	3.2230	0.35840	2.78%
012.03	5	5	11.970	0.74882	11.970	0.74882	0.23680	6.26%	0.64430	0.53965	0.84044	5.38%	4.51%	7.02%	1.5574	0.53600	2.75%
012.04	5	5	10.873	1.6386	10.873	1.6386	0.51816	15.07%	1.6358	0.13480	1.6413	15.04%	1.24%	15.10%	12.176	0.13000	2.79%
012.11	4	4	13.776	1.8296	13.776	1.8296	0.64687	13.28%	1.8203	0.26036	1.8389	13.21%	1.89%	13.35%	7.0628	0.25250	2.70%
013.00	17	16	5.1869	0.68412	5.1250	0.45389	0.08024	8.86%	0.66827	0.20708	0.69961	12.88%	3.99%	13.49%	3.3785	0.21250	3.13%
013.02	104	27	5.2350	0.37862	5.2580	0.34300	0.04504	6.52%	0.37440	0.07976	0.38280	7.15%	1.52%	7.31%	4.7996	0.11310	3.12%
013.08	1		1.8007														
013.10	12	11	4.7490	0.48989	4.8621	0.45738	0.09336	9.41%	0.48601	0.08700	0.49374	10.23%	1.83%	10.40%	5.6755	0.13083	3.15%
013.12	2	0															
013.13	3	3	5.7150	1.1339	5.7150	1.1339	0.46291	19.84%	1.0856	0.46291	1.1802	19.00%	8.10%	20.65%	2.5495	0.51000	3.08%
014.99	1		39.450														
015.41	5	4	170.47	2.4463	175.08	10.526	3.3286	6.01%	0.26880	3.4386	3.4491	0.16%	2.02%	2.02%	1.0031	3.3815	7.35%
015.42	1		104.80														
015.43	4	4	112.15	35.506	112.15	35.506	12.553	31.66%	35.407	3.7415	35.604	31.57%	3.34%	31.75%	9.5159	3.6825	7.86%
015.52	1		171.94														
015.53	2	0															
017.41	2	0															
017.42	3	3	3.6433	0.14012	3.6433	0.14012	0.05720	3.85%		0.42654			11.71%			0.44667	13.17%
017.43	5	5	3.8190	2.2409	3.8190	2.2409	0.70864	58.68%	2.2407	0.04743	2.2412	58.67%	1.24%	58.68%	47.248	0.04600	13.08%
017.53	1		4.1500														
019.00	20	18	1.0031	0.06289	1.0107	0.06643	0.01050	6.57%	0.06245	0.01053	0.06333	6.23%	1.05%	6.31%	6.0162	0.01277	3.99%
019.02	1		1.0950														
019.03	1		1.1310														
019.08	11	9	0.99737	0.03975	0.99590	0.05581	0.01190	5.60%	0.03853	0.01385	0.04094	3.86%	1.39%	4.11%	2.9557	0.01830	4.00%
019.31	31	27	0.97982	0.09458	0.97214	0.05410	0.00698	5.57%	0.09397	0.01522	0.09519	9.59%	1.55%	9.72%	6.2541	0.01836	4.02%
019.32	8	7	0.97009	0.06491	0.99005	0.02770	0.00693	2.80%	0.06329	0.02039	0.06650	6.52%	2.10%	6.85%	3.2610	0.03088	4.01%
019.33	1		0.97900														
019.34	2	0															
019.41	38	35	0.99131	0.05193	0.99539	0.05013	0.00575	5.04%	0.04931	0.02303	0.05443	4.97%	2.32%	5.49%	2.3629	0.02785	4.00%
019.42	20	20	1.0279	0.05430	1.0279	0.06158	0.00974	5.99%	0.05236	0.02036	0.05618	5.09%	1.98%	5.46%	2.7597	0.02097	3.98%
019.43	22	19	1.0257	0.05686	1.0255	0.05250	0.00810	5.12%	0.05577	0.01562	0.05792	5.44%	1.52%	5.65%	3.7086	0.01800	3.98%
019.44	3	2	1.0300	0.00000	0.97513	0.09503	0.03880	9.75%		0.02236			2.17%			0.03580	4.01%
019.52	2	0															
019.53	5	5	1.0024	0.02704	1.0024	0.02704	0.00855	2.70%		0.05264			5.25%			0.06506	4.00%
019.99	3	2	0.91100	0.02687	0.92833	0.03553	0.01450	3.83%	0.02687	0.00000	0.02687	2.95%	0.00%	2.95%		0.00133	4.04%
021.31	4	3	1.6383	1.1056	5.8288	8.4293	2.9802	144.62%	1.1005	0.15105	1.1108	67.17%	9.22%	67.80%	7.3536	0.29250	12.27%
021.41	4	3	0.94718	0.03437	0.84451	0.20725	0.07327	24.54%	0.03385	0.00843	0.03489	3.57%	0.89%	3.68%	4.1364	0.01648	16.41%
021.42	3	3	0.59233	0.54249	0.59233	0.54249	0.22147	91.59%	0.54007	0.07234	0.54490	91.18%	12.21%	91.99%	7.5323	0.07333	17.31%

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021.43	4	4	1.1475	0.04699	1.1475	0.04699	0.01661	4.10%	0.03234	0.04822	0.05806	2.82%	4.20%	5.06%	1.2041	0.04500	15.67%
021.52	2	0															
021.53	5	5	0.98760	0.12794	0.98760	0.12794	0.04046	12.95%	0.04810	0.16766	0.17442	4.87%	16.98%	17.66%	1.0403	0.18160	16.03%
022.31	19	17	19.549	3.2214	19.207	3.0083	0.50139	15.66%	3.2112	0.36255	3.2316	16.43%	1.85%	16.53%	8.9137	0.43086	10.25%
022.32	4	3	27.173	1.7918	33.505	12.748	4.5069	38.05%	1.5280	1.3236	2.0216	5.62%	4.87%	7.44%	1.5273	2.3750	9.43%
022.33	2	0															
022.41	28	26	19.874	3.1802	20.116	3.1980	0.43519	15.90%	3.0599	1.2250	3.2961	15.40%	6.16%	16.58%	2.6906	1.2880	10.18%
022.42	17	15	26.217	2.6884	25.619	2.1786	0.37363	8.50%	2.6095	0.91429	2.7650	9.95%	3.49%	10.55%	3.0242	1.0018	9.82%
022.43	21	18	25.029	1.3225	25.096	1.3469	0.21297	5.37%	1.1525	0.91743	1.4730	4.60%	3.67%	5.89%	1.6056	1.1160	9.85%
022.44	3	2	20.925	5.9751	20.803	4.2303	1.7270	20.33%	5.9708	0.32016	5.9793	28.53%	1.53%	28.58%	18.676	6.8733	10.13%
022.52	1		21.670														
022.53	5	5	24.770	4.4075	24.770	4.4075	1.3938	17.79%	4.3814	0.67750	4.4334	17.69%	2.74%	17.90%	6.5438	0.86000	9.87%
025.31	20	17	212.54	20.882	211.00	22.976	3.7272	10.89%	20.486	5.7257	21.271	9.64%	2.69%	10.01%	3.7149	7.3337	7.15%
025.32	4	3	228.31	17.663	338.73	221.31	78.247	65.34%	13.746	15.686	20.857	6.02%	6.87%	9.14%	1.3296	23.513	6.66%
025.33	1		198.76														
025.41	32	31	209.57	30.899	213.56	18.244	2.2805	8.54%	30.712	4.7955	31.084	14.66%	2.29%	14.83%	6.4820	5.6495	7.14%
025.42	15	13	211.89	33.431	202.40	24.085	4.3973	11.90%	32.797	9.1663	34.053	15.48%	4.33%	16.07%	3.7151	9.8067	7.19%
025.43	20	18	213.40	29.051	211.42	33.049	5.3613	15.63%	28.697	6.3892	29.400	13.45%	2.99%	13.78%	4.6015	6.9263	7.15%
025.52	1		157.23														
025.53	4	3	215.83	27.039	203.38	33.290	11.770	16.37%	26.839	4.6368	27.237	12.44%	2.15%	12.62%	5.8740	30.250	7.19%
025.99	1		210.55														
027.31	14	13	0.35975	0.01670	0.36063	0.01711	0.00323	4.74%	0.01602	0.00665	0.01735	4.45%	1.85%	4.82%	2.6073	0.00639	4.66%
027.32	5	5	0.37894	0.02286	0.37894	0.02286	0.00723	6.03%	0.02260	0.00485	0.02312	5.96%	1.28%	6.10%	4.7687	0.00548	4.63%
027.33	2	0															
027.34	1		0.34450														
027.41	26	26	0.37548	0.02235	0.37523	0.02120	0.00294	5.65%	0.02171	0.00752	0.02298	5.78%	2.00%	6.12%	3.0566	0.00844	4.64%
027.42	14	12	0.36508	0.02084	0.36722	0.02364	0.00464	6.44%	0.02034	0.00647	0.02134	5.57%	1.77%	5.85%	3.2975	0.00816	4.65%
027.43	18	16	0.37647	0.02171	0.37407	0.02144	0.00368	5.73%	0.02127	0.00612	0.02214	5.65%	1.62%	5.88%	3.6194	0.00647	4.64%
027.44	1		0.37100														
027.52	1		0.34180														
027.53	3	3	0.36980	0.00951	0.36980	0.00951	0.00388	2.57%		0.01365			3.69%			0.01373	4.65%
028.31	17	15	137.88	11.212	137.65	10.136	1.7919	7.36%	11.104	2.1944	11.319	8.05%	1.59%	8.21%	5.1582	2.8713	7.62%
028.32	4	3	168.15	0.92601	171.11	5.9730	2.1118	3.49%		9.1892			5.46%			8.9750	7.38%
028.33	2	0															
028.41	29	29	143.70	15.682	142.57	14.685	1.9283	10.30%	15.410	4.1164	15.950	10.72%	2.86%	11.10%	3.8747	4.5814	7.58%
028.42	18	17	173.11	8.5115	173.41	8.9669	1.5378	5.17%	6.9965	6.8548	9.7948	4.04%	3.96%	5.66%	1.4289	6.3482	7.36%
028.43	21	21	166.75	9.2903	166.96	10.120	1.5615	6.06%	9.0212	3.1390	9.5518	5.41%	1.88%	5.73%	3.0430	3.5857	7.41%
028.44	4	4	154.98	22.467	154.98	22.467	7.9433	14.50%	21.792	7.7327	23.123	14.06%	4.99%	14.92%	2.9903	7.6500	7.49%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
028.52	1		156.88														
028.53	5	5	166.69	6.3831	166.69	6.3831	2.0185	3.83%	5.7329	3.9695	6.9730	3.44%	2.38%	4.18%	1.7566	4.3000	7.41%
028.99	1		141.51														
031.01	59	54	0.85343	0.03322	0.85190	0.02809	0.00261	3.30%	0.03283	0.00722	0.03361	3.85%	0.85%	3.94%	4.6554	0.00832	4.10%
031.02	2	0															
031.03	4	3	0.85815	0.02228	0.84361	0.03430	0.01213	4.07%	0.02181	0.00643	0.02274	2.54%	0.75%	2.65%	3.5356	0.02638	4.10%
031.06	2	0															
031.41	35	34	0.85839	0.03951	0.85574	0.02520	0.00301	2.95%	0.03721	0.01879	0.04168	4.33%	2.19%	4.86%	2.2184	0.02240	4.09%
031.42	21	19	0.84593	0.04070	0.84338	0.04234	0.00669	5.02%	0.03694	0.02416	0.04414	4.37%	2.86%	5.22%	1.8268	0.02400	4.10%
031.43	22	21	0.86210	0.02946	0.85941	0.02843	0.00439	3.31%	0.02834	0.01134	0.03053	3.29%	1.32%	3.54%	2.6928	0.01343	4.09%
031.44	3	3	0.84010	0.10747	0.84010	0.10747	0.04388	12.79%	0.10704	0.01372	0.10791	12.74%	1.63%	12.84%	7.8662	0.01887	4.11%
031.53	5	4	0.85333	0.00816	0.84266	0.02487	0.00787	2.95%		0.01539			1.80%			0.01392	4.10%
031.99	5	4	0.83375	0.02720	0.83870	0.02602	0.00823	3.10%	0.02685	0.00612	0.02754	3.22%	0.73%	3.30%	4.4969	0.01940	4.11%
032.02	5	4	1.0283	0.14679	0.99160	0.15125	0.04783	15.25%	0.14657	0.01139	0.14701	14.25%	1.11%	14.30%	12.906	0.05520	4.00%
032.31	24	21	1.0155	0.09362	1.0158	0.07103	0.01047	6.99%	0.09272	0.01830	0.09451	9.13%	1.80%	9.31%	5.1650	0.02271	3.99%
032.32	6	4	1.1654	0.02605	1.1623	0.04841	0.01397	4.16%	0.01906	0.02513	0.03154	1.64%	2.16%	2.71%	1.2551	0.06453	3.91%
032.41	33	31	1.0398	0.05809	1.0471	0.05709	0.00714	5.45%	0.05615	0.02107	0.05997	5.40%	2.03%	5.77%	2.8464	0.02674	3.97%
032.42	19	17	1.0984	0.04971	1.0933	0.05934	0.00989	5.43%	0.04444	0.03150	0.05447	4.05%	2.87%	4.96%	1.7292	0.03323	3.95%
032.43	21	21	1.1119	0.06859	1.1142	0.06843	0.01056	6.14%	0.06731	0.01864	0.06984	6.05%	1.68%	6.28%	3.7462	0.02024	3.94%
032.44	2	0															
032.52	1		1.0435														
032.53	5	5	1.0834	0.05363	1.0834	0.05363	0.01696	4.95%	0.04746	0.03532	0.05917	4.38%	3.26%	5.46%	1.6749	0.04280	3.95%
032.99	2	0															
033.00	31	27	0.72402	0.08782	0.73073	0.07276	0.00955	9.96%	0.08756	0.00948	0.08808	12.09%	1.31%	12.16%	9.2924	0.01257	4.19%
033.01	42	38	0.79699	0.05417	0.80538	0.01782	0.00197	2.21%	0.05392	0.00739	0.05442	6.77%	0.93%	6.83%	7.3678	0.00853	4.13%
033.03	7	6	0.71725	0.05503	0.69793	0.06271	0.01676	8.98%	0.04981	0.03307	0.05979	6.95%	4.61%	8.34%	1.8080	0.03357	4.22%
033.05	6	6	0.81867	0.03357	0.82527	0.02299	0.00664	2.79%	0.03236	0.01260	0.03473	3.95%	1.54%	4.24%	2.7570	0.01200	4.12%
033.99	10	10	0.78743	0.15744	0.80059	0.14760	0.03300	18.44%	0.15716	0.01311	0.15771	19.96%	1.67%	20.03%	12.025	0.01471	4.14%
034.01	2	0															
034.04	6	5	0.75300	0.11239	0.75300	0.11239	0.03554	14.93%	0.11107	0.02429	0.11370	14.75%	3.23%	15.10%	4.6809	0.03000	16.69%
034.31	1		5.1000														
034.34	1		0.76000														
034.41	1		0.72700														
034.42	1		1.2100														
034.43	2	0															
034.52	2	0															
034.53	6	6	0.84825	0.17027	0.84243	0.18117	0.05230	21.51%	0.16387	0.06537	0.17643	19.32%	7.71%	20.80%	2.6991	0.07583	16.41%
035.01	3	3	0.35450	0.01802	0.35450	0.01802	0.00736	5.08%	0.01795	0.00220	0.01809	5.06%	0.62%	5.10%	8.2274	0.00233	4.68%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
035.02	1		0.37500														
035.05	7	6	0.35023	0.02791	0.34892	0.02922	0.00843	8.37%	0.02774	0.00434	0.02808	7.92%	1.24%	8.02%	6.4665	0.00492	4.69%
035.31	21	18	0.35098	0.01780	0.35223	0.01970	0.00311	5.59%	0.01714	0.00678	0.01843	4.88%	1.93%	5.25%	2.7185	0.00921	4.68%
035.32	4	4	0.36151	0.04787	0.36151	0.04787	0.01692	13.24%	0.04704	0.01255	0.04869	13.01%	3.47%	13.47%	3.8790	0.01488	4.66%
035.41	36	35	0.35412	0.02101	0.35392	0.02101	0.00251	5.94%	0.01998	0.00918	0.02199	5.64%	2.59%	6.21%	2.3947	0.01038	4.68%
035.42	17	17	0.36745	0.02713	0.36575	0.02725	0.00467	7.45%	0.02628	0.00952	0.02795	7.15%	2.59%	7.61%	2.9353	0.01023	4.65%
035.43	14	13	0.36373	0.01835	0.36193	0.01102	0.00216	3.05%	0.01749	0.00788	0.01918	4.81%	2.17%	5.27%	2.4336	0.01008	4.66%
035.52	1		0.34225														
035.53	5	5	0.36120	0.00458	0.36120	0.00458	0.00145	1.27%		0.00936			2.59%			0.01200	4.66%
036.04	3	0			0.30667	0.01155	0.00471	3.77%								0.00000	4.78%
036.41	1		0.32500														
036.42	16	15	0.30973	0.01767	0.30868	0.01954	0.00345	6.33%	0.01707	0.00647	0.01826	5.51%	2.09%	5.89%	2.8212	0.00773	4.77%
036.43	10	7	0.31455	0.01262	0.31981	0.01777	0.00419	5.56%	0.01231	0.00393	0.01293	3.91%	1.25%	4.11%	3.2890	0.00606	4.75%
036.53	1		0.30000														
037.31	21	20	114.08	7.4647	113.24	7.9748	1.2305	7.04%	7.1890	2.8425	7.7306	6.30%	2.49%	6.78%	2.7196	2.8933	7.85%
037.32	4	4	142.29	29.943	142.29	29.943	10.586	21.04%	29.911	1.9618	29.975	21.02%	1.38%	21.07%	15.279	2.2250	7.59%
037.33	2	0															
037.41	29	28	116.91	10.450	116.93	11.747	1.5698	10.05%	10.113	3.7228	10.777	8.65%	3.18%	9.22%	2.8948	4.2935	7.81%
037.42	17	16	133.11	8.3269	131.96	8.0816	1.3860	6.12%	7.4247	5.3311	9.1404	5.58%	4.01%	6.87%	1.7145	5.3995	7.67%
037.43	21	19	126.81	9.7825	127.91	7.2371	1.1443	5.66%	9.6662	2.1269	9.8974	7.62%	1.68%	7.81%	4.6535	2.5905	7.71%
037.44	3	3	125.20	12.511	125.20	12.511	5.1075	9.99%	12.476	1.3266	12.546	9.96%	1.06%	10.02%	9.4568	1.8667	7.73%
037.52	1		138.84														
037.53	5	4	130.88	28.995	127.60	26.157	8.2715	20.50%	28.986	1.0607	29.005	22.15%	0.81%	22.16%	27.346	3.2000	7.71%
038.41	3	3	2.1128	0.06071	2.1128	0.06071	0.02479	2.87%	0.02063	0.08075	0.08335	0.98%	3.82%	3.94%	1.0321	0.10217	14.29%
038.42	3	3	1.3683	0.93910	1.3683	0.93910	0.38339	68.63%	0.91993	0.26699	0.95789	67.23%	19.51%	70.00%	3.5877	0.29000	15.26%
038.43	7	6	1.6142	0.89163	1.7438	0.71138	0.20536	40.79%	0.89079	0.05485	0.89247	55.19%	3.40%	55.29%	16.272	0.06500	14.71%
038.52	2	0															
038.53	3	2	1.9275	0.00354	2.0550	0.22085	0.09016	10.75%		0.61247			31.78%			0.57667	14.35%
040.42	1		10.850														
040.43	1		10.100														
041.53	1		0.40950														
061.02	7	6	57.821	2.8204	58.797	3.3248	0.88858	5.65%	2.0956	2.6694	3.3937	3.62%	4.62%	5.87%	1.2713	2.5886	21.76%
061.03	10	9	59.151	3.3958	57.972	1.2930	0.30475	2.23%	3.3525	0.76515	3.4387	5.67%	1.29%	5.81%	4.4941	0.89111	21.80%
061.99	1		23.200														
101.01	1		342.00														
104.00	1		1.9750														
104.03	1		1.9200														
105.00	1		1.8850														

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
106.00	1		9.5000														
106.01	1		9.8200														
106.02	23	18	10.985	1.7659	10.821	1.5050	0.23796	13.91%	1.7288	0.50921	1.8022	15.74%	4.64%	16.41%	3.5392	0.72963	
108.01	1		1.9400														
108.02	6	6	2.0158	1.2014	2.0800	0.52609	0.15187	25.29%	1.2004	0.06958	1.2024	59.55%	3.45%	59.65%	17.281	0.08500	
108.99	1		2,270.0														
109.00	1		36.450														
109.02	17	16	48.686	18.106	52.029	9.0568	1.5532	17.41%	17.965	3.1830	18.245	36.90%	6.54%	37.48%	5.7321	2.9981	8.83%
120.00	16	16	0.95081	0.02501	0.95111	0.01999	0.00353	2.10%	0.02130	0.01854	0.02824	2.24%	1.95%	2.97%	1.5232	0.01963	4.03%
120.01	1		0.85650														
120.02	2	0															
120.05	3	3	0.89917	0.04796	0.89917	0.04796	0.01958	5.33%	0.04059	0.03615	0.05435	4.51%	4.02%	6.04%	1.5035	0.04567	4.06%
121.00	16	15	0.89740	0.02359	0.89691	0.02435	0.00430	2.71%	0.01931	0.01917	0.02721	2.15%	2.14%	3.03%	1.4197	0.02313	4.07%
121.01	1		0.91600														
121.02	2	0															
121.05	3	3	0.82267	0.08652	0.82267	0.08652	0.03532	10.52%	0.08537	0.01991	0.08766	10.38%	2.42%	10.66%	4.4031	0.02467	4.12%
122.00	16	14	1.1452	0.03168	1.1485	0.03734	0.00682	3.25%	0.03049	0.01216	0.03283	2.66%	1.06%	2.87%	2.6986	0.01693	3.92%
122.01	1		1.1645														
122.02	2	0															
122.05	3	3	1.0820	0.04204	1.0820	0.04204	0.01716	3.88%	0.03046	0.04097	0.05105	2.81%	3.79%	4.72%	1.2460	0.04267	3.95%
124.00	15	12	0.30346	0.01408	0.30400	0.00919	0.00174	3.02%	0.01367	0.00472	0.01447	4.51%	1.56%	4.77%	3.0639	0.00693	4.78%
124.01	1		0.29950														
124.02	2	0															
124.05	2	0															
125.00	16	14	2.9161	0.11572	2.8717	0.04517	0.00799	1.57%	0.11174	0.04259	0.11958	3.83%	1.46%	4.10%	2.8079	0.04788	3.41%
125.01	1		3.0270														
125.02	2	0															
125.05	3	3	2.6497	0.03664	2.6497	0.03664	0.01496	1.38%		0.05402			2.04%			0.07133	3.45%
125.99	1		2.4150														
126.00	16	13	0.76912	0.01062	0.76891	0.00885	0.00162	1.15%	0.00950	0.00671	0.01163	1.23%	0.87%	1.51%	1.7328	0.01033	4.16%
126.01	1		0.78700														
126.02	2	0															
126.05	3	3	0.74450	0.02326	0.74450	0.02326	0.00950	3.12%	0.02147	0.01267	0.02492	2.88%	1.70%	3.35%	1.9674	0.01633	4.18%
127.00	16	14	0.43196	0.01684	0.42713	0.01522	0.00269	3.56%	0.01629	0.00608	0.01738	3.77%	1.41%	4.02%	2.8594	0.00881	4.55%
127.01	1		0.37700														
127.02	2	0															
127.05	3	3	0.40183	0.01685	0.40183	0.01685	0.00688	4.19%	0.01376	0.01377	0.01946	3.42%	3.43%	4.84%	1.4139	0.01767	4.59%
128.00	16	15	0.53470	0.02569	0.53304	0.02588	0.00472	4.85%	0.02491	0.00887	0.02644	4.66%	1.66%	4.95%	2.9808	0.00993	4.40%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U) - Robust	% RSD - Robust	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
128.01	1		0.59800														
128.02	2	0															
128.05	3	2	0.47325	0.05692	0.48417	0.04447	0.01815	9.18%	0.05692	0.00050	0.05692	12.03%	0.11%	12.03%	113.85	0.00633	4.46%
129.00	16	14	1.3096	0.02462	1.3099	0.02380	0.00435	1.82%	0.02341	0.01078	0.02578	1.79%	0.82%	1.97%	2.3910	0.01507	3.84%
129.01	1		1.3265														
129.02	2	0															
129.05	3	3	1.2493	0.07033	1.2493	0.07033	0.02871	5.63%	0.06879	0.02071	0.07184	5.51%	1.66%	5.75%	3.4685	0.02467	3.87%
130.00	16	14	0.58857	0.02454	0.59013	0.02664	0.00486	4.51%	0.02388	0.00798	0.02518	4.06%	1.36%	4.28%	3.1560	0.01213	4.33%
130.01	1		0.59000														
130.02	2	0															
130.05	4	4	0.55038	0.04318	0.55038	0.04318	0.01527	7.85%	0.03849	0.02769	0.04741	6.99%	5.03%	8.62%	1.7122	0.02725	4.38%
131.00	15	12	0.25625	0.01727	0.25033	0.01095	0.00207	4.38%	0.01711	0.00332	0.01742	6.68%	1.29%	6.80%	5.2537	0.00500	4.93%
131.01	1		0.23550														
131.02	2	0															
131.05	3	3	0.21133	0.05934	0.21133	0.05934	0.02423	28.08%	0.05906	0.00823	0.05963	27.95%	3.89%	28.21%	7.2487	0.01067	5.05%
132.00	16	16	0.67556	0.01551	0.67568	0.01598	0.00282	2.36%	0.01365	0.01043	0.01718	2.02%	1.54%	2.54%	1.6463	0.01038	4.24%
132.01	1		0.71750														
132.02	2	0															
132.05	3	3	0.64733	0.03233	0.64733	0.03233	0.01320	4.99%	0.02948	0.01875	0.03494	4.55%	2.90%	5.40%	1.8633	0.01933	4.27%
133.00	14	13	1.1262	0.03991	1.1296	0.03575	0.00701	3.16%	0.03659	0.02253	0.04297	3.25%	2.00%	3.82%	1.9071	0.02538	3.93%
133.05	3	3	1.1610	0.07308	1.1610	0.07308	0.02984	6.29%	0.07121	0.02322	0.07490	6.13%	2.00%	6.45%	3.2254	0.02600	3.91%
133.99	1		1.4550														
134.00	16	15	0.70783	0.04958	0.71100	0.04678	0.00854	6.58%	0.04803	0.01737	0.05107	6.79%	2.45%	7.22%	2.9405	0.01887	4.21%
134.01	1		0.78150														
134.02	2	0															
134.05	3	3	0.71183	0.03786	0.71183	0.03786	0.01546	5.32%	0.03353	0.02486	0.04175	4.71%	3.49%	5.86%	1.6790	0.02833	4.21%
135.00	16	16	0.56491	0.02282	0.56439	0.02362	0.00418	4.19%	0.02029	0.01475	0.02509	3.59%	2.61%	4.44%	1.7010	0.01444	4.36%
135.01	1		0.58650														
135.02	2	0															
135.05	3	3	0.54750	0.03598	0.54750	0.03598	0.01469	6.57%	0.03406	0.01642	0.03781	6.22%	3.00%	6.91%	2.3031	0.02100	4.38%
136.00	5	5	0.19240	0.04933	0.19240	0.04933	0.01560	25.64%	0.04734	0.01962	0.05124	24.60%	10.20%	26.63%	2.6115	0.02040	5.13%
136.01	5	4	0.19238	0.00229	0.18740	0.01130	0.00357	6.03%	0.00210	0.00127	0.00246	1.09%	0.66%	1.28%	1.9282	0.00160	5.15%
136.02	1		0.14000														
136.03	1		0.19250														
136.05	1		0.15400														
136.99	2	0															
137.00	12	12	0.46008	0.03573	0.45883	0.03770	0.00769	8.22%	0.03368	0.01688	0.03767	7.32%	3.67%	8.19%	2.2318	0.01817	4.50%
137.01	1		0.55250														

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137.02	2	0															
137.05	3	3	0.41083	0.11449	0.41083	0.11449	0.04674	27.87%	0.11390	0.01652	0.11509	27.72%	4.02%	28.01%	6.9675	0.02100	4.57%
138.00	16	15	0.76400	0.03916	0.76535	0.03875	0.00708	5.06%	0.03870	0.00852	0.03963	5.07%	1.12%	5.19%	4.6506	0.00840	4.16%
138.01	1		0.84900														
138.02	2	0															
138.05	3	3	0.70767	0.06746	0.70767	0.06746	0.02754	9.53%	0.06562	0.02213	0.06925	9.27%	3.13%	9.79%	3.1296	0.02867	4.21%
139.00	3	2	0.13500	0.04950	0.13567	0.03502	0.01430	25.81%	0.04950	0.00000	0.04950	36.66%	0.00%	36.66%		0.00533	5.40%
139.02	2	0															
160.99	4	4	0.33000	0.06014	0.33000	0.06014	0.02126	18.22%	0.05960	0.01138	0.06067	18.06%	3.45%	18.39%	5.3318	0.01150	4.73%
161.99	2	0															
162.99	4	4	0.36588	0.15151	0.36588	0.15151	0.05357	41.41%	0.15123	0.01304	0.15179	41.33%	3.56%	41.49%	11.637	0.01275	4.65%
163.99	4	3	0.00000	0.00000	0.07875	0.15750	0.05568	200.00%	0.00000	0.00000	0.00000					0.00250	5.86%
164.99	4	3	0.09667	0.10017	0.27888	0.37348	0.13205	133.92%	0.10017	0.00000	0.10017	103.62%	0.00%	103.62%		0.01025	4.85%
165.99	6	5	2.4166	0.35359	2.5505	0.51674	0.14917	20.26%	0.34638	0.10049	0.36066	14.33%	4.16%	14.92%	3.5891	0.11433	3.47%
166.99	1		0.90200														
167.99	1		0.21350														
400.01	4	4	0.50913	0.01256	0.50913	0.01256	0.00444	2.47%	0.01251	0.00162	0.01261	2.46%	0.32%	2.48%	7.7838	0.00175	
400.99	1		0.55175														
516.00	1		0.07500														
516.01	1		0.07100														
516.43	1		0.38000														
516.52	2	0															
516.53	4	4	0.12638	0.01615	0.12638	0.01615	0.00571	12.78%	0.01429	0.01066	0.01782	11.30%	8.43%	14.10%	1.6722	0.01325	21.84%
518.31	1		0.00000														
518.33	1		0.06500														
518.34	1		0.04350														
518.41	4	3	0.06233	0.01334	0.05638	0.01615	0.00571	28.64%	0.01334	0.00041	0.01335	21.40%	0.65%	21.41%	32.696	0.00350	24.66%
518.43	1		0.02000														
518.52	2	0															
518.53	7	6	0.06802	0.00619	0.06822	0.00629	0.00168	9.22%	0.00584	0.00293	0.00653	8.58%	4.31%	9.60%	2.2285	0.00474	23.96%
520.31	1		5.8000														
520.41	3	2	7.7365	0.01768	6.4493	2.2295	0.91018	34.57%		0.28144			3.64%			0.30800	12.08%
520.43	3	2	12.885	0.41719	14.710	3.1747	1.2961	21.58%	0.15100	0.55000	0.57035	1.17%	4.27%	4.43%	1.0370	3.3000	10.67%
520.52	1		4.0850														
520.53	4	4	9.4760	5.3745	9.4760	5.3745	1.9002	56.72%	5.3332	0.94091	5.4156	56.28%	9.93%	57.15%	5.7557	1.0630	11.40%
520.99	1		15.100														
526.31	2	0															
526.34	1		0.02150														

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526.41	2	0															
526.43	1		0.00000														
526.52	2	0															
526.53	6	6	0.13650	0.01266	0.13650	0.01436	0.00415	10.52%	0.01051	0.00999	0.01450	7.70%	7.32%	10.62%	1.4514	0.01000	21.59%
529.99	4	0			5.3000	9.9445	3.5159	187.63%								0.00000	35.20%
539.31	2	0															
539.41	1		5.7660														
539.43	2	0															
539.52	1		2.4250														
539.53	5	5	5.4230	3.2567	5.4230	3.2567	1.0299	60.05%	3.2262	0.62934	3.2870	59.49%	11.61%	60.61%	5.2229	0.61400	12.40%
600.01	4	3	0.62333	1.0796												0.08000	
600.03	1		2.5000														
600.08	1		3.6000														
600.13	1		4.1550														
600.14	1		1.1000														
600.20	2	0															
600.98	2	0															
601.20	2	0															
601.23	1		0.00000														
602.20	1		1.9000														
602.23	1		0.00000														
603.20	1		0.00000														
603.23	1		0.00000														
604.20	1		0.00000														
604.23	1		0.00000														
610.01	3	3	970.00	842.97												36.400	
610.05	1		1,180.0														
610.08	1		0.00150														
610.23	2	0															
610.25	1		1,295.0														
620.01	1		250.00														
620.04	1		550.00														
620.09	1		0.00045														
621.23	2	0															
622.23	1		0.00000														
623.23	1		0.00000														
630.01	1		0.00000														
630.03	1		3.9000														

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630.06	1		4.3000														
630.20	2	0															
630.23	1		0.00000														
640.01	1		95.500														
640.23	1		0.00000														
650.01	2	0															
650.04	1		117.00														
650.07	1		103.84														
650.21	1		163.70														
650.23	1		18.140														