

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201231

Preconditioning cattle starter, 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	2	2	2.0625	0.32173													
000.99	2	2	1.8700	0.58690													
001.00	10	7	7.8485	0.34440	7.8394	0.37485	0.10018	4.78%	0.34208	0.05654	0.34672	4.36%	0.72%	4.42%	6.1318	0.06271	2.93%
001.03	21	20	7.8158	0.21424	7.7884	0.08612	0.01362	1.11%	0.09529	0.01736	0.09686	1.23%	0.22%	1.25%	5.5787	0.02178	2.94%
001.05	1		7.9550														
001.07	39	37	7.8230	0.55737	7.8687	0.29119	0.03385	3.70%	0.32245	0.08082	0.33242	4.09%	1.02%	4.22%	4.1133	0.09399	2.93%
001.08	3	3	8.0933	0.22234	8.0933	0.22234	0.09077	2.75%	0.19975	0.13808	0.24283	2.47%	1.71%	3.00%	1.7586	0.17333	2.92%
001.99	20	18	7.8039	0.72831	7.8439	0.71314	0.11886	9.09%	0.72728	0.05483	0.72934	9.32%	0.70%	9.35%	13.303	0.06194	2.93%
002.00	4	4	12.859	1.1805	12.859	1.1805	0.41735	9.18%	1.1756	0.15170	1.1853	9.14%	1.18%	9.22%	7.8136	0.19750	2.72%
002.01	14	13	12.477	0.38452	12.577	0.11823	0.02319	0.94%	0.11586	0.10565	0.15680	0.92%	0.84%	1.25%	1.4841	0.10892	2.73%
002.02	7	7	12.628	0.49885	12.695	0.45577	0.12181	3.59%	0.49108	0.12399	0.50649	3.89%	0.98%	4.01%	4.0849	0.12520	2.73%
002.03	3	3	11.240	2.6392	11.240	2.6392	1.0775	23.48%	2.6386	0.08021	2.6398	23.48%	0.71%	23.49%	32.912	0.08000	2.78%
002.04	6	6	12.467	0.33502	12.371	0.20377	0.05882	1.65%	0.30867	0.18416	0.35944	2.48%	1.48%	2.88%	1.9517	0.19667	2.74%
002.05	50	49	12.644	0.29638	12.644	0.28919	0.02921	2.29%	0.27419	0.07376	0.28394	2.17%	0.58%	2.25%	3.8493	0.08641	2.73%
002.06	228	144	12.800	0.49726	12.808	0.44019	0.02594	3.44%	0.41847	0.15427	0.44600	3.27%	1.21%	3.49%	2.8911	0.19461	2.72%
002.07	1		12.815														
002.08	3	3	12.728	0.03014	12.728	0.03014	0.01231	0.24%		0.09701			0.76%			0.12180	2.73%
002.10	2	2	12.691	0.00530													
002.11	7	6	12.318	1.2201	12.318	1.3835	0.39939	11.23%	1.2195	0.05188	1.2206	9.90%	0.42%	9.91%	23.527	0.04833	2.74%
002.99	5	5	12.819	0.42247	12.819	0.42247	0.13360	3.30%	0.35096	0.33258	0.48351	2.74%	2.59%	3.77%	1.4538	0.38600	2.72%
003.00	21	20	2.4986	0.17334	2.4974	0.17837	0.02820	7.14%	0.16856	0.07378	0.18400	6.72%	2.94%	7.33%	2.4939	0.11025	3.49%
003.01	2	2	2.1025	0.18031													
003.06	21	20	2.4136	0.56032	2.3144	0.14241	0.02252	6.15%	0.18441	0.06767	0.19644	8.03%	2.95%	8.56%	2.9027	0.08230	3.53%
003.07	1		1.8600														
003.09	27	25	2.3922	0.19100	2.4082	0.15131	0.02140	6.28%	0.16318	0.06054	0.17405	6.78%	2.51%	7.23%	2.8751	0.07138	3.50%
003.10	36	34	2.2052	0.18094	2.2013	0.16292	0.01976	7.40%	0.14484	0.04917	0.15296	6.58%	2.23%	6.95%	3.1108	0.05779	3.55%
003.11	5	5	2.2800	0.46574	2.2800	0.46574	0.14728	20.43%	0.46461	0.04583	0.46686	20.38%	2.01%	20.48%	10.188	0.04400	3.53%

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003.12	19	18	2.3368	0.12626	2.3206	0.10426	0.01738	4.49%	0.09980	0.01953	0.10169	4.31%	0.84%	4.39%	5.2079	0.03006	3.52%
003.13	7	7	2.3576	0.31269	2.4115	0.22277	0.05954	9.24%	0.09017	0.17784	0.19940	3.66%	7.22%	8.10%	1.1212	0.25329	3.50%
003.14	35	34	2.3099	0.22706	2.3085	0.17354	0.02104	7.52%	0.17435	0.07940	0.19158	7.55%	3.44%	8.29%	2.4128	0.09165	3.53%
003.99	11	8	2.0931	0.47873	2.1063	0.51825	0.12956	24.61%	0.47212	0.11211	0.48525	22.56%	5.36%	23.18%	4.3283	0.12875	3.58%
004.00	30	29	21.975	1.2751	21.994	1.2693	0.16667	5.77%	1.2789	0.31815	1.3179	5.82%	1.45%	6.00%	4.1423	0.36862	2.51%
004.01	2	2	22.775	0.60104													
004.03	3	3	22.202	2.9565	22.202	2.9565	1.2070	13.32%	2.9551	0.12682	2.9578	13.31%	0.57%	13.32%	23.323	0.15667	2.51%
004.06	50	48	22.220	1.4714	22.184	1.4812	0.15117	6.68%	1.3249	0.17639	1.3366	5.98%	0.80%	6.04%	7.5776	0.18603	2.51%
004.07	65	64	22.197	1.5033	22.018	1.0273	0.09080	4.67%	1.1470	0.29054	1.1833	5.21%	1.32%	5.37%	4.0726	0.36140	2.51%
004.11	5	5	20.870	1.3437	20.870	1.3437	0.42493	6.44%	1.3424	0.08450	1.3451	6.43%	0.40%	6.45%	15.918	0.09200	2.53%
004.99	3	3	21.845	1.9706	21.845	1.9706	0.80447	9.02%	1.8385	0.00000	1.8385	8.10%	0.00%	8.10%		0.28333	2.51%
005.00	187	114	6.7442	0.16451	6.7426	0.11957	0.00792	1.77%	0.12490	0.06860	0.14250	1.85%	1.02%	2.11%	2.0773	0.07939	3.00%
005.01	1		6.9100														
005.02	2	2	6.7850	0.09192													
005.03	2	2	6.7525	0.07425													
005.05	38	37	6.8898	0.20801	6.8705	0.14155	0.01645	2.06%	0.14026	0.03924	0.14565	2.04%	0.57%	2.12%	3.7121	0.04391	2.99%
005.11	4	4	7.7663	1.8105	7.7663	1.8105	0.64010	23.31%	0.26383	0.03719	0.26644	3.04%	0.43%	3.07%	7.1637	0.10250	2.94%
005.99	15	15	6.7727	0.30651	6.8265	0.18171	0.03318	2.66%	0.19632	0.10481	0.22255	2.87%	1.53%	3.26%	2.1233	0.13467	3.00%
006.01	1		4.7000														
006.99	3	3	5.2550	1.1235	5.2550	1.1235	0.45867	21.38%	1.1233	0.02972	1.1237	21.38%	0.57%	21.38%	37.809	0.03000	3.12%
008.02	13	13	29.910	1.3030	29.933	0.90889	0.17825	3.04%	1.2877	0.28191	1.3182	4.31%	0.94%	4.41%	4.6761	0.30285	2.40%
008.05	1		30.550														
008.08	37	36	29.220	1.3741	29.244	1.3495	0.15904	4.61%	1.3160	0.55898	1.4298	4.50%	1.91%	4.89%	2.5579	0.62690	2.41%
008.99	2	2	28.588	1.2905													
009.04	2	2	48.170	3.5638													
009.07	10	10	45.457	3.1192	45.542	2.4664	0.55150	5.42%	3.0390	0.99379	3.1973	6.69%	2.19%	7.03%	3.2173	0.97160	2.25%
009.09	30	29	44.453	2.2903	44.328	1.8743	0.24611	4.23%	1.6735	0.57824	1.7706	3.79%	1.31%	4.01%	3.0620	0.65277	2.26%
009.99	3	3	33.688	12.110	33.688	12.110	4.9440	35.95%	12.101	0.65275	12.119	35.92%	1.94%	35.97%	18.566	0.63667	2.36%
010.03	6	5	6.7738	1.3344	6.7738	1.3344	0.42197	19.70%	1.3323	0.10555	1.3365	19.67%	1.56%	19.73%	12.662	0.10034	3.00%
010.11	3	3	8.7600	0.64715	8.7600	0.64715	0.26420	7.39%	0.64710	0.01155	0.64720	7.39%	0.13%	7.39%	56.049	0.01333	2.89%
010.99	13	12	7.8681	0.52118	7.8111	0.42386	0.08652	5.43%	0.40248	0.06500	0.40769	5.19%	0.84%	5.25%	6.2725	0.08115	2.94%
011.01	160	82	8.7834	0.31486	8.8067	0.24866	0.01942	2.82%	0.27751	0.06754	0.28561	3.15%	0.77%	3.24%	4.2286	0.08388	2.88%
011.02	5	3	8.5933	0.36088	8.5933	0.36088	0.14733	4.20%		0.01414			0.17%			0.08000	2.89%
011.99	3	3	8.3400	0.38720	8.3400	0.38720	0.15807	4.64%	0.38580	0.04655	0.38860	4.63%	0.56%	4.66%	8.3484	0.04667	2.91%
012.00	12	11	14.512	0.96210	14.670	0.63675	0.13576	4.34%	0.44101	0.29779	0.53213	2.99%	2.02%	3.60%	1.7869	0.44545	2.67%
012.01	5	5	14.344	0.91372	14.344	0.91372	0.28895	6.37%	0.73406	0.76948	1.0635	5.12%	5.36%	7.41%	1.3820	0.83200	2.68%
012.02	2	2	9.3575	8.9696													
012.03	4	4	14.654	1.5902	14.654	1.5902	0.56223	10.85%	1.5648	0.40058	1.6152	10.68%	2.73%	11.02%	4.0323	0.43750	2.67%

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012.04	7	7	14.986	1.7000	14.983	1.7047	0.45560	11.38%	1.5122	0.27600	1.5371	10.34%	1.89%	10.52%	5.5694	0.54429	2.66%
012.11	4	4	15.908	2.0599	15.908	2.0599	0.72828	12.95%	2.0589	0.09097	2.0609	12.94%	0.57%	12.96%	22.655	0.10500	2.64%
013.00	18	17	2.9570	0.36387	2.9538	0.40625	0.06967	13.75%	0.34457	0.16536	0.38219	11.65%	5.59%	12.92%	2.3113	0.19219	3.40%
013.02	101	30	3.2483	0.47153	3.2344	0.38967	0.05031	12.05%	0.40583	0.11555	0.42196	12.67%	3.61%	13.17%	3.6518	0.14233	3.35%
013.08	1		1.9050														
013.10	12	12	2.6723	0.30424	2.6748	0.34006	0.06941	12.71%	0.29389	0.11130	0.31426	11.00%	4.17%	11.76%	2.8235	0.13022	3.45%
013.12	3	2	2.6575	0.06010	2.6575	0.06010	0.03005	2.26%								0.00500	3.45%
013.13	2	2	3.8000	0.21213													
014.99	1		49.950														
015.41	5	5	174.65	20.128	174.65	20.128	6.3650	11.52%	19.784	5.2375	20.466	11.33%	3.00%	11.72%	3.9075	6.0305	7.36%
015.42	2	2	192.68	43.381													
015.43	3	3	191.68	13.006	191.68	13.006	5.3096	6.79%	11.843	2.9155	12.196	6.37%	1.57%	6.56%	4.1833	16.900	7.25%
015.53	2	2	184.00	21.213													
017.41	2	2	10.645	0.21213													
017.42	4	4	7.7600	5.1844	7.7600	5.1844	1.8330	66.81%	0.21440	0.50213	0.54599	2.07%	4.85%	5.28%	1.0873	0.50000	11.75%
017.43	3	3	12.457	1.3411	12.457	1.3411	0.54748	10.77%	1.3402	0.06583	1.3419	10.76%	0.53%	10.77%	20.384	0.07333	10.94%
017.53	1		10.900														
019.00	33	31	0.90209	0.07242	0.90436	0.05941	0.00754	6.57%	0.07201	0.01079	0.07282	7.98%	1.20%	8.07%	6.7504	0.01161	4.06%
019.03	3	3	0.91433	0.10925	0.91433	0.10925	0.04460	11.95%	0.02559	0.00773	0.02673	2.62%	0.79%	2.74%	3.4561	0.04727	4.05%
019.08	12	11	0.89299	0.04284	0.88911	0.03885	0.00828	4.37%	0.02796	0.01463	0.03156	3.17%	1.66%	3.57%	2.1572	0.01441	4.07%
019.31	33	32	0.85427	0.12460	0.87267	0.03675	0.00459	4.21%	0.03287	0.01006	0.03438	3.75%	1.15%	3.92%	3.4178	0.01451	4.08%
019.32	7	7	0.88559	0.08300	0.89998	0.05979	0.01598	6.64%	0.04157	0.01680	0.04483	4.55%	1.84%	4.91%	2.6686	0.01533	4.06%
019.33	1		0.88000														
019.41	38	37	0.87062	0.05357	0.87621	0.03603	0.00419	4.11%	0.04476	0.01591	0.04750	5.11%	1.81%	5.42%	2.9867	0.01937	4.08%
019.42	19	18	0.91579	0.05077	0.91114	0.03854	0.00642	4.23%	0.04858	0.01915	0.05222	5.32%	2.10%	5.72%	2.7269	0.02728	4.06%
019.43	15	14	0.91219	0.03910	0.91219	0.04434	0.00838	4.86%	0.03574	0.01455	0.03859	3.90%	1.59%	4.21%	2.6517	0.01923	4.06%
019.44	4	4	0.87863	0.02124	0.87863	0.02124	0.00751	2.42%	0.01762	0.01678	0.02433	2.01%	1.91%	2.77%	1.4499	0.02025	4.08%
019.52	1		0.73500														
019.53	3	3	0.91450	0.06456	0.91450	0.06456	0.02636	7.06%	0.06195	0.02569	0.06707	6.77%	2.81%	7.33%	2.6102	0.02633	4.05%
019.99	4	4	1.0167	0.33316	1.0167	0.33316	0.11779	32.77%	0.33151	0.04684	0.33480	32.61%	4.61%	32.93%	7.1477	0.05538	3.99%
021.31	3	3	5.0983	1.0562	5.0983	1.0562	0.43118	20.72%	1.0382	0.27438	1.0738	20.36%	5.38%	21.06%	3.9138	0.31667	12.52%
021.34	2	2	5.6425	1.4177													
021.41	6	5	4.7557	0.70914	4.7557	0.70914	0.22425	14.91%	0.69764	0.17989	0.72046	14.67%	3.78%	15.15%	4.0050	0.20670	12.65%
021.42	4	4	5.1413	0.97472	5.1413	0.97472	0.34461	18.96%		0.37258			8.00%			0.47250	12.50%
021.43	3	3	6.2183	0.46745	6.2183	0.46745	0.19084	7.52%	0.46615	0.04916	0.46874	7.50%	0.79%	7.54%	9.5351	0.05667	12.15%
021.53	4	4	4.5800	0.62195	4.5800	0.62195	0.21989	13.58%	0.54037	0.43546	0.69400	11.80%	9.51%	15.15%	1.5937	0.42000	12.72%
021.99	1		6.3106														
022.31	17	16	36.981	3.5218	37.106	3.7046	0.65489	9.98%	3.5755	0.98704	3.7093	9.66%	2.67%	10.02%	3.7580	1.1494	9.29%

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022.32	3	3	45.408	3.4059	45.408	3.4059	1.3905	7.50%	3.3539	0.83874	3.4572	7.39%	1.85%	7.61%	4.1219	0.82333	9.01%
022.33	1		38.685														
022.35	1		33.000														
022.41	34	33	36.202	7.5206	36.983	4.1656	0.51276	11.26%	3.6029	1.5074	3.9055	9.60%	4.02%	10.41%	2.5909	1.6978	9.29%
022.42	18	18	41.769	3.5310	41.784	3.4459	0.57432	8.25%	3.3012	1.7720	3.7467	7.90%	4.24%	8.97%	2.1144	1.6617	9.12%
022.43	12	11	41.740	4.0482	41.118	2.7708	0.59073	6.74%	4.0764	1.2166	4.2541	9.70%	2.90%	10.13%	3.4965	2.0179	9.14%
022.44	2	2	38.325	3.7123													
022.53	3	3	41.267	1.3429	41.267	1.3429	0.54823	3.25%		2.1985			5.33%			2.3333	9.14%
022.99	2	2	30.091	12.150													
023.01	1		0.00445														
025.31	16	16	420.41	61.106	423.34	60.874	10.761	14.38%	60.978	5.5962	61.234	14.50%	1.33%	14.57%	10.942	6.4769	6.44%
025.32	2	2	485.58	14.591													
025.33	1		496.88														
025.41	28	27	454.34	30.204	454.25	25.603	3.4841	5.64%	26.227	8.4316	27.549	5.74%	1.84%	6.03%	3.2674	10.082	6.37%
025.42	13	12	429.41	109.61	457.59	38.906	7.9417	8.50%	60.394	14.983	62.225	13.24%	3.28%	13.64%	4.1530	17.836	6.36%
025.43	10	10	459.08	66.708	468.14	49.681	11.109	10.61%	65.831	15.247	67.574	14.34%	3.32%	14.72%	4.4321	15.988	6.34%
025.53	1		377.00														
025.99	2	2	373.66	103.46													
027.31	19	18	0.20756	0.02375	0.21131	0.01021	0.00170	4.83%	0.00938	0.00585	0.01105	4.38%	2.73%	5.16%	1.8896	0.00856	5.05%
027.32	4	4	0.22209	0.00446	0.22209	0.00446	0.00158	2.01%	0.00322	0.00437	0.00543	1.45%	1.97%	2.44%	1.2425	0.00473	5.02%
027.41	30	29	0.21791	0.01612	0.21816	0.01130	0.00148	5.18%	0.00900	0.00433	0.00998	4.12%	1.98%	4.58%	2.3077	0.00483	5.03%
027.42	17	17	0.22610	0.01385	0.22565	0.01467	0.00252	6.50%	0.01344	0.00606	0.01474	5.96%	2.69%	6.54%	2.4321	0.00725	5.00%
027.43	9	8	0.22600	0.01551	0.22526	0.01586	0.00396	7.04%	0.01646	0.00395	0.01693	7.27%	1.74%	7.48%	4.2906	0.00600	5.01%
027.44	2	2	0.21575	0.01167													
027.53	2	2	0.22975	0.00742													
027.99	1		0.20000														
028.31	17	16	100.04	13.850	101.46	11.093	1.9610	10.93%	9.1746	2.1953	9.4336	8.94%	2.14%	9.19%	4.2971	2.3169	7.98%
028.32	3	3	112.48	2.6126	112.48	2.6126	1.0666	2.32%		2.0056			1.81%			1.7667	7.86%
028.33	1		109.07														
028.41	31	30	104.37	9.4999	103.13	4.6607	0.60169	4.52%	4.4625	1.9713	4.8785	4.34%	1.92%	4.75%	2.4748	2.6305	7.96%
028.42	19	18	110.33	5.3317	110.47	4.0288	0.67147	3.65%	4.0578	2.6117	4.8256	3.66%	2.35%	4.35%	1.8477	3.0778	7.88%
028.43	12	12	102.68	11.530	105.10	5.2620	1.0741	5.01%	2.7065	4.3734	5.1431	2.56%	4.13%	4.86%	1.1760	4.8325	7.94%
028.44	2	2	97.300	6.6468													
028.53	3	3	113.48	5.3876	113.48	5.3876	2.1995	4.75%	3.4217	5.8852	6.8076	3.02%	5.19%	6.00%	1.1567	5.7000	7.85%
028.99	1		104.21														
031.00	1		0.84000														
031.01	72	70	0.84753	0.04546	0.85389	0.03210	0.00271	3.76%	0.03754	0.00908	0.03862	4.41%	1.07%	4.54%	4.2529	0.01097	4.10%
031.02	2	2	0.87653	0.03320													

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
031.03	7	7	0.87028	0.03860	0.85962	0.01801	0.00481	2.09%	0.00446	0.02048	0.02096	0.52%	2.39%	2.45%	1.0234	0.02967	4.09%
031.06	3	3	0.77700	0.02066	0.77700	0.02066	0.00844	2.66%	0.01884	0.01200	0.02234	2.42%	1.54%	2.87%	1.8615	0.01600	4.15%
031.41	38	37	0.84429	0.03202	0.84468	0.03169	0.00368	3.75%	0.02824	0.02064	0.03498	3.35%	2.45%	4.15%	1.6947	0.02171	4.10%
031.42	21	21	0.85316	0.03671	0.85162	0.03718	0.00574	4.37%	0.03175	0.01995	0.03750	3.73%	2.35%	4.41%	1.8793	0.02233	4.10%
031.43	15	15	0.86472	0.05672	0.87511	0.03855	0.00704	4.40%	0.03273	0.02465	0.04097	3.74%	2.81%	4.68%	1.6623	0.02350	4.08%
031.44	3	3	0.81483	0.02158	0.81483	0.02158	0.00881	2.65%	0.02033	0.01021	0.02275	2.50%	1.25%	2.79%	2.2293	0.01167	4.12%
031.53	3	3	0.87883	0.08949	0.87883	0.08949	0.03654	10.18%	0.08755	0.02623	0.09140	9.96%	2.98%	10.40%	3.4840	0.02767	4.08%
031.99	7	7	0.81780	0.09028	0.85891	0.01850	0.00495	2.15%	0.08904	0.02110	0.09151	10.89%	2.58%	11.19%	4.3366	0.02083	4.09%
032.02	8	7	1.1599	0.07774	1.1555	0.08024	0.02144	6.94%	0.07454	0.03122	0.08081	6.43%	2.69%	6.97%	2.5888	0.03214	3.91%
032.31	26	24	1.1590	0.07400	1.1632	0.05569	0.00804	4.79%	0.05122	0.01667	0.05386	4.38%	1.42%	4.60%	3.2315	0.01942	3.91%
032.32	5	5	1.2326	0.06755	1.2326	0.06755	0.02136	5.48%	0.06556	0.02302	0.06949	5.32%	1.87%	5.64%	3.0183	0.02210	3.88%
032.33	1		1.2805														
032.41	38	38	1.1696	0.09758	1.1727	0.05067	0.00581	4.32%	0.05808	0.02848	0.06469	4.97%	2.44%	5.54%	2.2710	0.02969	3.90%
032.42	20	19	1.2099	0.05584	1.2108	0.06163	0.01000	5.09%	0.05441	0.01775	0.05724	4.50%	1.47%	4.73%	3.2239	0.02059	3.89%
032.43	15	14	1.2168	0.09501	1.2136	0.06033	0.01140	4.97%	0.06654	0.02284	0.07035	5.55%	1.91%	5.87%	3.0807	0.02544	3.88%
032.44	3	3	1.1443	0.02380	1.1443	0.02380	0.00972	2.08%	0.01494	0.02619	0.03016	1.31%	2.29%	2.64%	1.1513	0.03533	3.92%
032.53	2	2	1.2425	0.01061													
032.99	3	3	1.0983	0.12220	1.0983	0.12220	0.04989	11.13%	0.12210	0.00707	0.12230	11.12%	0.64%	11.14%	17.296	0.01000	3.94%
033.00	45	45	0.63351	0.09088	0.63897	0.07036	0.00742	11.01%	0.07625	0.01107	0.07705	12.09%	1.76%	12.22%	6.9592	0.01466	4.28%
033.01	43	42	0.67895	0.03260	0.67920	0.02251	0.00246	3.31%	0.02406	0.01085	0.02639	3.52%	1.59%	3.86%	2.4334	0.01501	4.24%
033.03	7	7	0.64214	0.06304	0.63421	0.03686	0.00985	5.81%	0.06088	0.02315	0.06513	9.48%	3.60%	10.14%	2.8139	0.02714	4.28%
033.05	4	4	0.61875	0.12298	0.61875	0.12298	0.04348	19.87%	0.00957	0.01291	0.01607	1.41%	1.90%	2.36%	1.2450	0.01250	4.30%
033.99	12	11	0.55422	0.19411	0.55422	0.22013	0.04693	39.72%	0.19152	0.01538	0.19213	35.87%	2.88%	35.99%	12.495	0.02815	4.37%
034.04	8	8	0.49288	0.07125	0.50330	0.06239	0.01560	12.40%	0.06875	0.02648	0.07367	13.95%	5.37%	14.95%	2.7817	0.02600	17.74%
034.42	2	2	0.00000	0.00000													
034.43	2	2	0.40525	0.34189													
034.53	3	3	0.49517	0.03918	0.49517	0.03918	0.01600	7.91%	0.02370	0.04412	0.05008	4.79%	8.91%	10.11%	1.1351	0.04700	17.78%
034.99	1		0.54900														
035.01	5	5	0.16500	0.01279	0.16500	0.01279	0.00405	7.75%	0.01249	0.00387	0.01308	7.57%	2.35%	7.93%	3.3776	0.00360	5.25%
035.05	7	6	0.15261	0.02238	0.15787	0.01286	0.00371	8.15%	0.00856	0.00398	0.00944	5.31%	2.47%	5.86%	2.3724	0.00362	5.28%
035.31	21	19	0.16252	0.01882	0.16238	0.01482	0.00240	9.13%	0.01907	0.00471	0.01964	11.72%	2.89%	12.08%	4.1732	0.00598	5.26%
035.32	3	3	0.16567	0.00751	0.16567	0.00751	0.00306	4.53%	0.00000	0.00000	0.00000	0.00%	0.00%	0.00%		0.00133	5.24%
035.33	1		0.17450														
035.41	34	34	0.15764	0.01445	0.15985	0.00794	0.00096	4.97%	0.00836	0.00617	0.01039	5.24%	3.87%	6.51%	1.6848	0.00618	5.27%
035.42	15	15	0.17049	0.02040	0.16766	0.01578	0.00288	9.41%	0.01290	0.00685	0.01460	7.75%	4.11%	8.77%	2.1327	0.00647	5.23%
035.43	9	9	0.15683	0.01142	0.15572	0.00821	0.00194	5.27%	0.00912	0.00972	0.01333	5.82%	6.19%	8.50%	1.3718	0.01078	5.29%
035.53	2	2	0.16275	0.00318													
036.00	1		0.25000														

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036.04	3	3	0.21500	0.01500	0.21500	0.01500	0.00612	6.98%	0.02121	0.00000	0.02121	9.87%	0.00%	9.87%		0.01000	5.04%
036.42	19	19	0.21652	0.01517	0.21510	0.01349	0.00219	6.27%	0.01108	0.00822	0.01380	5.17%	3.83%	6.43%	1.6780	0.00952	5.04%
036.43	7	7	0.22257	0.02189	0.21997	0.01860	0.00497	8.45%	0.02157	0.00530	0.02221	9.69%	2.38%	9.98%	4.1873	0.00543	5.02%
036.53	1		0.23100														
036.99	1		0.16000														
037.31	16	16	170.61	51.210	157.48	12.108	2.1404	7.69%	16.372	3.9827	16.849	10.30%	2.50%	10.60%	4.2306	5.0063	7.47%
037.32	3	3	168.45	10.607	168.45	10.607	4.3303	6.30%	3.7842	14.013	14.515	2.25%	8.32%	8.62%	1.0358	14.833	7.40%
037.33	2	2	167.23	8.1600													
037.34	1		155.00														
037.41	33	31	155.97	11.480	155.97	11.168	1.4184	7.16%	10.972	3.2257	11.436	7.06%	2.08%	7.36%	3.5453	4.1363	7.48%
037.42	17	16	169.93	9.0986	168.25	6.8534	1.2115	4.07%	8.5363	4.4536	9.6282	5.02%	2.62%	5.67%	2.1619	4.8438	7.40%
037.43	12	11	163.83	11.087	164.68	11.027	2.3509	6.70%	10.272	5.9009	11.847	6.27%	3.60%	7.23%	2.0076	6.4300	7.42%
037.44	2	2	153.00	0.70711													
037.53	3	3	162.33	11.590	162.33	11.590	4.7317	7.14%	10.472	7.0238	12.610	6.45%	4.33%	7.77%	1.7953	8.0000	7.44%
037.99	2	2	143.17	24.282													
038.41	3	3	2.3664	0.59024	2.3664	0.59024	0.24096	24.94%	0.18341	0.07225	0.19712	9.01%	3.55%	9.69%	2.7284	0.51483	14.05%
038.42	5	5	2.2470	0.39105	2.2470	0.39105	0.12366	17.40%	0.37650	0.14943	0.40507	16.76%	6.65%	18.03%	2.7108	0.16200	14.16%
038.43	5	5	2.3470	0.26052	2.3470	0.26052	0.08238	11.10%	0.25445	0.07906	0.26645	10.84%	3.37%	11.35%	3.3703	0.10600	14.07%
038.53	2	2	1.9500	0.16971													
041.41	1		3.1260														
041.42	1		3.3500														
041.53	1		3.0500														
051.00	5	5	64.091	5.8410	64.091	5.8410	1.8471	9.11%	5.5582	2.5391	6.1107	8.67%	3.96%	9.53%	2.4066	3.2513	21.48%
051.03	13	13	61.484	10.132	62.255	10.070	1.9749	16.18%	9.7953	3.6608	10.457	15.93%	5.95%	17.01%	2.8565	4.1415	21.57%
082.00	1		0.00645														
082.01	8	8	0.00698	0.00136	0.00698	0.00154	0.00038	22.03%	0.00135	0.00017	0.00136	19.36%	2.40%	19.50%	8.1192	0.00019	8.44%
082.02	4	4	0.00683	0.00038	0.00683	0.00038	0.00013	5.50%	0.00035	0.00019	0.00040	5.12%	2.84%	5.85%	2.0629	0.00020	8.47%
101.01	1		291.50														
101.02	1		367.40														
105.00	1		1.2085														
106.00	1		5.1500														
106.01	1		4.8900														
106.02	23	23	5.3466	1.4559	5.1257	1.0568	0.15581	20.62%	1.1104	0.42038	1.1873	21.58%	8.17%	23.07%	2.8244	0.52776	
108.01	1		0.00000														
108.02	2	2	0.58625	0.64877													
109.02	6	6	13.663	9.2352	13.824	9.0420	2.6102	65.41%	9.2179	0.79768	9.2524	67.47%	5.84%	67.72%	11.599	0.87540	10.77%
115.00	3	3	2.0417	0.11240	2.0417	0.11240	0.04589	5.51%	0.10867	0.04062	0.11601	5.32%	1.99%	5.68%	2.8560	0.05667	3.59%
115.99	1		0.60500														

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120.00	16	16	0.51827	0.05565	0.50490	0.02054	0.00363	4.07%	0.02382	0.01257	0.02693	4.71%	2.49%	5.33%	2.1418	0.01776	4.43%
120.01	2	2	0.47700	0.06010													
120.02	2	2	0.47825	0.07672													
120.05	2	2	0.49803	0.02408													
121.00	16	16	0.59636	0.06352	0.60214	0.03503	0.00619	5.82%	0.04964	0.01509	0.05188	8.18%	2.49%	8.55%	3.4389	0.01501	4.32%
121.01	2	2	0.62050	0.02475													
121.02	2	2	0.52853	0.13014													
121.05	2	2	0.56825	0.06258													
122.00	16	16	0.97122	0.10668	0.95754	0.06110	0.01080	6.38%	0.05457	0.02054	0.05831	5.76%	2.17%	6.15%	2.8393	0.02199	4.03%
122.01	2	2	0.96700	0.01202													
122.02	2	2	0.93100	0.06576													
122.05	2	2	0.90725	0.10501													
124.00	15	15	0.18126	0.03264	0.17252	0.01074	0.00196	6.23%	0.02389	0.00630	0.02470	13.62%	3.59%	14.08%	3.9215	0.00665	5.21%
124.01	2	2	0.16200	0.00424													
124.02	2	2	0.16288	0.02528													
124.05	2	2	0.14375	0.03924													
125.00	16	15	1.6512	0.19004	1.6333	0.12530	0.02288	7.67%	0.11731	0.02475	0.11989	7.28%	1.54%	7.44%	4.8435	0.02722	3.72%
125.01	2	2	1.6373	0.03854													
125.02	2	2	1.5746	0.09843													
125.05	2	2	1.5628	0.20612													
126.00	16	16	0.48016	0.04655	0.47077	0.01812	0.00320	3.85%	0.01963	0.01115	0.02257	4.18%	2.37%	4.81%	2.0240	0.01298	4.48%
126.01	2	2	0.44800	0.02051													
126.02	2	2	0.47573	0.02860													
126.05	2	2	0.47400	0.02121													
127.00	15	14	0.24489	0.01421	0.24468	0.01566	0.00296	6.40%	0.01377	0.00497	0.01464	5.62%	2.03%	5.98%	2.9421	0.00579	4.94%
127.01	2	2	0.24250	0.02899													
127.02	2	2	0.31260	0.08966													
127.05	2	2	0.24725	0.00247													
128.00	16	16	0.35418	0.03109	0.35396	0.02945	0.00521	8.32%	0.02573	0.00932	0.02737	7.36%	2.67%	7.82%	2.9358	0.01211	4.68%
128.01	2	2	0.38675	0.02652													
128.02	2	2	0.36320	0.02857													
128.05	2	2	0.35850	0.00000													
129.00	16	15	0.70463	0.04278	0.69853	0.03564	0.00651	5.10%	0.04220	0.00997	0.04336	5.99%	1.42%	6.15%	4.3474	0.01110	4.22%
129.01	2	2	0.71950	0.00212													
129.02	2	2	0.68713	0.06240													
129.05	2	2	0.68875	0.03924													
130.00	16	16	0.49175	0.04041	0.48658	0.03015	0.00533	6.20%	0.02364	0.00925	0.02538	4.89%	1.91%	5.25%	2.7449	0.00889	4.46%
130.01	2	2	0.45050	0.02121													

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130.02	2	2	0.47553	0.09408													
130.05	3	3	0.48700	0.00433	0.48700	0.00433	0.00177	0.89%		0.03806			7.78%			0.03000	4.46%
131.00	15	14	0.15288	0.01658	0.15360	0.01483	0.00280	9.65%	0.01293	0.00376	0.01346	8.33%	2.43%	8.68%	3.5767	0.00451	5.30%
131.01	2	2	0.14800	0.00990													
131.02	2	2	0.14820	0.01160													
131.05	3	3	0.10350	0.05371	0.10350	0.05371	0.02193	51.90%	0.05354	0.00607	0.05389	51.73%	5.86%	52.06%	8.8788	0.00833	5.63%
132.00	16	16	0.43454	0.04840	0.43506	0.02161	0.00382	4.97%	0.04774	0.01123	0.04904	10.99%	2.58%	11.29%	4.3675	0.01206	4.53%
132.01	2	2	0.44100	0.00071													
132.02	2	2	0.42160	0.03620													
132.05	2	2	0.40900	0.01414													
133.00	16	16	0.57415	0.07628	0.57888	0.02462	0.00435	4.25%	0.04620	0.01406	0.04829	7.84%	2.39%	8.19%	3.4338	0.01594	4.34%
133.04	1		0.56200														
133.05	3	3	0.58533	0.01193	0.58533	0.01193	0.00487	2.04%		0.02519			4.30%			0.02667	4.34%
134.00	16	16	0.47246	0.06183	0.46081	0.02915	0.00515	6.33%	0.02317	0.01026	0.02534	5.06%	2.24%	5.53%	2.4694	0.01316	4.49%
134.01	2	2	0.45275	0.00247													
134.02	2	2	0.42440	0.00226													
134.05	2	2	0.48825	0.00106													
135.00	16	16	0.36381	0.02473	0.36180	0.02109	0.00373	5.83%	0.01669	0.00924	0.01908	4.64%	2.57%	5.31%	2.0652	0.00960	4.66%
135.01	2	2	0.34975	0.01732													
135.02	2	2	0.35033	0.02450													
135.05	2	2	0.35100	0.03465													
136.00	4	4	0.13815	0.04233	0.13815	0.04233	0.01497	30.64%	0.04229	0.00274	0.04237	30.61%	1.99%	30.67%	15.442	0.00320	5.39%
136.01	6	6	0.13612	0.07068	0.11959	0.04001	0.01155	33.45%	0.02880	0.00369	0.02903	25.51%	3.27%	25.72%	7.8653	0.00777	5.51%
136.03	1		0.11900														
136.05	1		0.08200														
136.99	3	3	0.10600	0.03573	0.10600	0.03573	0.01459	33.71%	0.03553	0.00539	0.03593	33.52%	5.08%	33.90%	6.6728	0.00733	5.61%
137.00	12	12	0.29683	0.04433	0.30198	0.03644	0.00744	12.07%	0.02769	0.00926	0.02920	9.02%	3.02%	9.51%	3.1535	0.00954	4.79%
137.01	2	2	0.34525	0.00247													
137.02	2	2	0.28860	0.00509													
137.05	2	2	0.21000	0.03748													
138.00	16	15	0.45191	0.04628	0.45910	0.03105	0.00567	6.76%	0.02471	0.01133	0.02719	5.35%	2.45%	5.89%	2.3987	0.01201	4.50%
138.01	2	2	0.51650	0.09899													
138.02	2	2	0.48795	0.01973													
138.05	2	2	0.46750	0.03465													
139.00	3	3	0.14733	0.10169	0.14733	0.10169	0.04152	69.02%	0.12162	0.00100	0.12162	104.85%	0.86%	104.85%	121.62	0.01400	5.34%
139.02	1		0.00000														
139.05	1		0.00300														
140.01	1		0.00900														

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
142.00	1		0.07750														
150.00	1		157.00														
160.99	1		0.38300														
161.99	1		0.00000														
162.99	1		0.14400														
163.99	1		0.00000														
164.99	1		0.15150														
165.99	1		2.6700														
166.99	1		0.44200														
167.99	1		0.41400														
400.01	2	2	0.40425	0.00813													
400.99	1		0.39950														
516.00	2	2	0.24775	0.04561													
516.42	1		0.00000														
516.53	2	2	0.23950	0.03323													
518.33	1		0.23200														
518.41	1		0.07500														
518.42	1		0.00000														
518.53	2	2	0.19950	0.02192													
520.41	2	2	6.7520	0.77499													
520.42	1		10.250														
520.43	2	2	7.6175	1.8562													
520.53	2	2	4.9125	0.44194													
526.31	1		0.00900														
526.33	1		0.21900														
526.41	1		0.02000														
526.42	1		0.00000														
526.53	2	2	0.08750	0.02192													
529.99	2	2	2.8500	1.2021													
539.31	1		3.2200														
539.41	1		3.4905														
539.42	1		4.6500														
539.43	1		2.8800														
539.53	2	2	2.2855	0.33305													
600.01	1		1.7500														
600.12	1		2.0500														
602.23	1		0.06000														
610.01	1		550.00														

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
610.07	1	1	651.00														
610.25	1	1	517.00														
630.01	1	1	4.0000														
630.20	1	1	0.00000														
640.01	1	1	84.000														
640.25	1	1	0.00000														
650.01	1	1	68.000														
650.06	1	1	79.000														
650.21	1	1	0.00000														
650.24	1	1	15.450														