

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201326

Chicken Starter/Grower, Medicated



AAFCO

Check Sample Program

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - 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
000.99	1		0.95000														
001.00	10	6	10.775	0.21267	10.816	0.09660	0.02582	0.89%	0.21189	0.02582	0.21346	1.97%	0.24%	1.98%	8.2671	0.05000	2.80%
001.03	11	10	10.702	0.10644	10.686	0.12907	0.02752	1.21%	0.10619	0.01037	0.10670	0.99%	0.10%	1.00%	10.287	0.01151	2.80%
001.05	1		10.775														
001.07	36	31	10.581	0.25623	10.575	0.29438	0.03519	2.78%	0.25082	0.07404	0.26152	2.37%	0.70%	2.47%	3.5321	0.11988	2.80%
001.08	3	3	10.777	0.02517	10.777	0.02517	0.01027	0.23%		0.18000			1.67%			0.22667	2.80%
001.09	1		10.970														
001.99	17	14	10.544	0.61468	10.699	0.30442	0.05558	2.85%	0.60767	0.13095	0.62162	5.76%	1.24%	5.90%	4.7470	0.13899	2.80%
002.00	3	3	18.307	0.22301	18.307	0.22301	0.09104	1.22%	0.19824	0.14445	0.24529	1.08%	0.79%	1.34%	1.6981	0.16667	2.58%
002.01	10	10	18.338	0.24229	18.338	0.22892	0.05119	1.25%	0.21417	0.16022	0.26747	1.17%	0.87%	1.46%	1.6694	0.14910	2.58%
002.02	6	6	18.383	0.37671	18.381	0.42255	0.12198	2.30%	0.37332	0.07129	0.38007	2.03%	0.39%	2.07%	5.3312	0.07928	2.58%
002.03	2	0															
002.04	5	5	18.316	0.25888	18.316	0.25888	0.08186	1.41%	0.18267	0.25942	0.31728	1.00%	1.42%	1.73%	1.2230	0.26400	2.58%
002.05	40	35	18.247	0.14776	18.265	0.15920	0.01826	0.87%	0.14416	0.04580	0.15126	0.79%	0.25%	0.83%	3.3026	0.05719	2.58%
002.06	210	129	18.568	0.24553	18.571	0.22241	0.01359	1.20%	0.22830	0.12778	0.26163	1.23%	0.69%	1.41%	2.0475	0.14212	2.58%
002.08	3	3	18.637	0.02831	18.637	0.02831	0.01156	0.15%		0.16515			0.89%			0.17643	2.58%
002.10	1		10.755														
002.11	5	5	18.440	0.32494	18.440	0.32494	0.10275	1.76%	0.32030	0.07733	0.32950	1.74%	0.42%	1.79%	4.2610	0.07600	2.58%
002.99	4	4	18.516	0.18980	18.516	0.18980	0.06710	1.03%	0.17689	0.09728	0.20188	0.96%	0.53%	1.09%	2.0753	0.13250	2.58%
003.00	15	12	4.1832	0.35451	4.1395	0.35201	0.06652	8.50%	0.35093	0.07109	0.35806	8.39%	1.70%	8.56%	5.0363	0.09482	3.23%
003.01	2	0															
003.06	18	16	3.9037	0.08812	3.9050	0.06071	0.01012	1.55%	0.08046	0.05082	0.09516	2.06%	1.30%	2.44%	1.8727	0.06935	3.26%
003.07	1		3.5600														
003.09	28	24	3.9167	0.11594	3.9011	0.10429	0.01446	2.67%	0.10793	0.05989	0.12344	2.76%	1.53%	3.15%	2.0611	0.06496	3.26%
003.10	36	29	3.8477	0.16679	3.8460	0.11901	0.01511	3.09%	0.16013	0.06599	0.17319	4.16%	1.71%	4.50%	2.6246	0.07983	3.27%
003.11	3	3	3.5467	0.65592	3.5467	0.65592	0.26778	18.49%	0.65585	0.01414	0.65600	18.49%	0.40%	18.50%	46.386	0.02000	3.31%
003.12	12	11	3.8106	0.14108	3.8383	0.07327	0.01496	1.91%	0.14009	0.02355	0.14206	3.68%	0.62%	3.73%	6.0315	0.02373	3.27%

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003.13	7	6	3.7017	0.29293	3.7377	0.25743	0.07431	6.89%	0.29140	0.04223	0.29445	7.87%	1.14%	7.95%	6.9725	0.05000	3.28%
003.14	32	29	3.8808	0.24724	3.8351	0.25115	0.03190	6.55%	0.22281	0.15154	0.26946	5.74%	3.90%	6.94%	1.7781	0.16919	3.27%
003.99	8	4	3.9413	0.26091	3.6230	0.74664	0.23611	20.61%	0.25757	0.05884	0.26420	6.54%	1.49%	6.70%	4.4900	0.14600	3.30%
004.00	23	22	3.6676	0.24248	3.6940	0.23315	0.03438	6.31%	0.23603	0.07854	0.24876	6.44%	2.14%	6.78%	3.1673	0.10349	3.29%
004.01	2	0															
004.03	4	4	3.2600	1.3248	3.2600	1.3248	0.46838	40.64%	1.3127	0.25254	1.3368	40.27%	7.75%	41.00%	5.2933	0.25500	3.35%
004.06	40	36	3.8509	0.36575	3.8391	0.34190	0.03871	8.91%	0.36361	0.05595	0.36789	9.44%	1.45%	9.55%	6.5749	0.06780	3.27%
004.07	48	44	3.4526	0.38065	3.4618	0.39070	0.04030	11.29%	0.37065	0.12260	0.39040	10.74%	3.55%	11.31%	3.1844	0.15268	3.32%
004.11	2	0															
004.99	3	3	3.1933	0.19009	3.1933	0.19009	0.07760	5.95%	0.18965	0.01826	0.19053	5.94%	0.57%	5.97%	10.436	0.02000	3.36%
005.00	171	107	5.4390	0.13890	5.4405	0.13850	0.00930	2.55%	0.13232	0.05974	0.14518	2.43%	1.10%	2.67%	2.4303	0.06953	3.10%
005.02	1		5.3600														
005.03	2	0															
005.05	29	27	5.5507	0.12065	5.5620	0.11631	0.01527	2.09%	0.11815	0.03454	0.12309	2.13%	0.62%	2.22%	3.5640	0.03870	3.09%
005.11	4	4	6.5600	1.4060	6.5600	1.4060	0.49710	21.43%	1.4052	0.06586	1.4068	21.42%	1.00%	21.44%	21.361	0.07100	3.01%
005.99	10	10	5.5555	0.13206	5.5869	0.08371	0.01872	1.50%	0.12871	0.04178	0.13533	2.32%	0.75%	2.44%	3.2387	0.04563	3.09%
006.00	1		3.3440														
006.01	1		4.2500														
006.99	4	4	3.4338	1.2752	3.4338	1.2752	0.45084	37.14%	1.2735	0.09253	1.2768	37.09%	2.69%	37.19%	13.799	0.12750	3.32%
008.02	13	13	5.6627	0.62411	5.5184	0.45382	0.08900	8.22%	0.60181	0.23387	0.64565	10.63%	4.13%	11.40%	2.7607	0.21308	3.09%
008.05	1		5.4500														
008.08	29	27	4.8134	0.62489	4.9062	0.51319	0.06858	10.46%	0.60301	0.23183	0.64604	12.53%	4.82%	13.42%	2.7867	0.26807	3.15%
008.99	2	0															
009.04	2	0															
009.07	9	9	14.792	1.8338	14.498	0.97349	0.22945	6.71%	1.8232	0.27774	1.8443	12.33%	1.88%	12.47%	6.6403	0.31889	2.67%
009.09	25	24	13.786	1.2214	13.740	1.1961	0.17264	8.70%	1.1970	0.34315	1.2452	8.68%	2.49%	9.03%	3.6289	0.35183	2.70%
009.99	2	0															
010.03	4	4	10.951	0.28385	10.951	0.28385	0.10036	2.59%	0.26929	0.12694	0.29771	2.46%	1.16%	2.72%	2.3453	0.17250	2.79%
010.11	4	4	10.551	0.61446	10.551	0.61446	0.21724	5.82%	0.61417	0.02687	0.61475	5.82%	0.25%	5.83%	22.879	0.03100	2.81%
010.99	10	10	10.496	0.11590	10.495	0.10126	0.02264	0.96%	0.09274	0.09832	0.13515	0.88%	0.94%	1.29%	1.3746	0.10581	2.81%
011.01	145	74	11.363	0.40265	11.390	0.38625	0.03113	3.39%	0.39807	0.08568	0.40718	3.50%	0.75%	3.58%	4.7522	0.09253	2.77%
011.02	6	4	11.376	0.24750	11.376	0.24750	0.08750	2.18%	0.24259	0.06937	0.25231	2.13%	0.61%	2.22%	3.6371	0.08250	2.77%
011.03	1		11.000														
011.99	4	4	11.185	0.38534	11.185	0.38534	0.13624	3.45%	0.37155	0.14448	0.39865	3.32%	1.29%	3.56%	2.7592	0.19000	2.78%
012.00	9	7	38.747	0.38438	38.634	0.48220	0.12055	1.25%	0.37605	0.11257	0.39254	0.97%	0.29%	1.01%	3.4871	0.24250	2.31%
012.01	5	4	34.885	0.53157	35.948	2.4211	0.76562	6.74%	0.19472	0.69950	0.72610	0.56%	2.01%	2.08%	1.0380	0.61600	2.33%
012.03	3	3	38.110	3.7696	38.110	3.7696	1.5389	9.89%	3.6119	1.5258	3.9210	9.48%	4.00%	10.29%	2.5698	1.6267	2.31%
012.04	4	4	35.625	1.4909	35.625	1.4909	0.52710	4.18%	1.4730	0.32515	1.5085	4.13%	0.91%	4.23%	4.6393	0.35000	2.34%

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012.11	3	2	36.703	1.6864	36.928	1.2547	0.51221	3.40%	1.6864	0.00500	1.6865	4.59%	0.01%	4.59%	337.29	0.04667	2.32%
013.00	16	13	4.7035	0.36505	4.6420	0.32766	0.05982	7.06%	0.34270	0.17784	0.38610	7.29%	3.78%	8.21%	2.1711	0.22447	3.17%
013.02	87	28	4.8789	0.27037	4.8832	0.26042	0.03480	5.33%	0.25557	0.12479	0.28441	5.24%	2.56%	5.83%	2.2792	0.13929	3.15%
013.10	12	9	4.6730	0.28697	4.6947	0.30690	0.06863	6.54%	0.27950	0.09201	0.29425	5.98%	1.97%	6.30%	3.1979	0.13900	3.17%
013.12	3	0			4.7718	0.61978	0.30989	12.99%								0.02450	3.16%
013.13	3	3	4.7800	0.65184	4.7800	0.65184	0.26611	13.64%	0.59975	0.36111	0.70007	12.55%	7.55%	14.65%	1.9387	0.44000	3.16%
015.41	3	2	111.74	10.978	118.83	14.524	5.9295	12.22%	10.972	0.51091	10.984	9.82%	0.46%	9.83%	21.499	3.0700	7.79%
015.42	2	0															
015.43	4	4	162.77	38.504	162.77	38.504	13.613	23.66%	38.488	1.5357	38.519	23.65%	0.94%	23.67%	25.082	1.9675	7.43%
015.52	1		145.26														
017.41	2	0															
017.42	4	3	10.193	0.64599	7.6450	5.1239	1.8116	67.02%	0.64155	0.10693	0.65040	6.29%	1.05%	6.38%	6.0827	0.11000	11.78%
017.43	4	3	8.8138	4.3166	10.162	4.4371	1.5688	43.67%	4.3163	0.07389	4.3169	48.97%	0.84%	48.98%	58.421	0.31275	11.28%
017.52	1		9.4000														
019.00	23	21	0.95049	0.08072	0.95017	0.07357	0.01085	7.74%	0.08016	0.01345	0.08128	8.43%	1.42%	8.55%	6.0423	0.01900	4.03%
019.03	2	0															
019.08	10	10	0.94753	0.04709	0.94503	0.04526	0.01012	4.79%	0.04679	0.00753	0.04739	4.94%	0.79%	5.00%	6.2935	0.00762	4.03%
019.31	36	31	0.94565	0.05575	0.95394	0.04929	0.00589	5.17%	0.05483	0.01428	0.05666	5.80%	1.51%	5.99%	3.9662	0.02146	4.03%
019.32	9	9	0.95016	0.03285	0.95416	0.02927	0.00690	3.07%	0.03217	0.00937	0.03351	3.39%	0.99%	3.53%	3.5752	0.00880	4.03%
019.33	3	3	0.97167	0.04726	0.97167	0.04726	0.01929	4.86%	0.04628	0.01354	0.04822	4.76%	1.39%	4.96%	3.5612	0.01667	4.02%
019.41	36	34	0.95076	0.04913	0.95082	0.04469	0.00534	4.70%	0.04830	0.01269	0.04994	5.08%	1.33%	5.25%	3.9363	0.01410	4.03%
019.42	18	17	0.95836	0.04439	0.95593	0.04425	0.00759	4.63%	0.04311	0.01494	0.04563	4.50%	1.56%	4.76%	3.0539	0.01481	4.03%
019.43	14	14	0.98707	0.03441	0.98547	0.03534	0.00668	3.59%	0.03217	0.01728	0.03652	3.26%	1.75%	3.70%	2.1132	0.01986	4.01%
019.44	3	3	0.89673	0.05597	0.89673	0.05597	0.02285	6.24%	0.05483	0.01590	0.05709	6.11%	1.77%	6.37%	3.5910	0.02187	4.07%
019.52	3	3	0.91607	0.04264	0.91607	0.04264	0.01741	4.65%	0.02187	0.05177	0.05620	2.39%	5.65%	6.13%	1.0856	0.06993	4.05%
019.53	3	3	0.93683	0.01711	0.93683	0.01711	0.00698	1.83%	0.01660	0.00585	0.01760	1.77%	0.62%	1.88%	3.0106	0.00567	4.04%
019.99	1		0.90500														
021.31	4	4	0.70875	0.79549	0.70875	0.79549	0.28125	112.24%	0.79352	0.07914	0.79746	111.96%	11.17%	112.52%	10.077	0.07750	16.85%
021.41	1		0.55000														
021.42	3	3	0.26000	0.24439	0.26000	0.24439	0.09977	93.99%	0.22799	0.12446	0.25975	87.69%	47.87%	99.90%	2.0871	0.12800	19.59%
021.43	3	2	0.77000	0.08485	0.65017	0.21606	0.08820	33.23%	0.08485	0.00000	0.08485	11.02%	0.00%	11.02%		0.02900	17.07%
021.52	3	2	0.36125	0.12198	0.40617	0.11615	0.04742	28.60%	0.12192	0.00502	0.12203	33.75%	1.39%	33.78%	24.284	0.06033	18.32%
021.53	1		0.58850														
022.31	18	17	12.669	1.1420	12.725	1.2378	0.20629	9.73%	1.1226	0.29657	1.1611	8.86%	2.34%	9.16%	3.9149	0.35278	10.91%
022.32	5	4	12.003	1.3528	9.6020	5.4940	1.7374	57.22%	1.2311	0.79313	1.4644	10.26%	6.61%	12.20%	1.8464	0.68400	11.38%
022.33	3	3	10.372	5.9832	10.372	5.9832	2.4426	57.69%	5.8922	1.4702	6.0728	56.81%	14.18%	58.55%	4.1306	1.5033	11.25%
022.41	24	24	12.661	1.2050	12.547	0.83348	0.12030	6.64%	1.0684	0.78819	1.3276	8.44%	6.23%	10.49%	1.6844	0.83746	10.93%
022.42	17	15	12.884	1.3706	12.726	1.0455	0.18481	8.22%	1.3521	0.31716	1.3888	10.49%	2.46%	10.78%	4.3789	0.37125	10.91%

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022.43	14	12	11.962	0.86861	12.099	1.0972	0.21518	9.07%	0.81784	0.41381	0.91657	6.84%	3.46%	7.66%	2.2149	0.75308	10.99%	
022.44	2	0																
022.52	2	0																
022.53	3	3	11.617	1.1361	11.617	1.1361	0.46383	9.78%	1.1045	0.37639	1.1669	9.51%	3.24%	10.05%	3.1003	0.36667	11.06%	
025.31	14	14	269.89	29.400	270.27	25.572	4.8327	9.46%	29.272	3.8748	29.527	10.85%	1.44%	10.94%	7.6203	4.2693	6.89%	
025.32	5	5	285.96	29.519	285.96	29.519	9.3346	10.32%	28.613	10.262	30.398	10.01%	3.59%	10.63%	2.9620	12.048	6.83%	
025.33	3	3	255.75	25.772	255.75	25.772	10.521	10.08%	20.776	21.568	29.946	8.12%	8.43%	11.71%	1.3885	23.423	6.94%	
025.41	22	20	268.08	13.361	270.28	8.7798	1.3236	3.25%	13.258	2.3398	13.463	4.95%	0.87%	5.02%	5.7539	3.8034	6.89%	
025.42	14	12	266.23	23.384	262.84	17.542	3.4402	6.67%	23.093	5.2047	23.672	8.67%	1.96%	8.89%	4.5482	6.2992	6.92%	
025.43	13	11	256.93	28.538	263.08	28.664	5.8509	10.90%	28.436	3.4222	28.641	11.07%	1.33%	11.15%	8.3692	3.9708	6.92%	
025.52	1		249.25															
025.53	2	0																
027.31	15	14	0.21511	0.00454	0.21491	0.00406	0.00074	1.89%		0.00645			3.00%			0.00711	5.04%	
027.32	5	5	0.21712	0.00567	0.21712	0.00567	0.00179	2.61%	0.00503	0.00370	0.00625	2.32%	1.70%	2.88%	1.6895	0.00336	5.03%	
027.33	3	3	0.20550	0.01238	0.20550	0.01238	0.00505	6.02%	0.01037	0.00957	0.01411	5.05%	4.65%	6.86%	1.4747	0.01233	5.08%	
027.34	1		0.20500															
027.41	23	23	0.21707	0.00733	0.21690	0.00800	0.00118	3.69%	0.00605	0.00585	0.00841	2.79%	2.69%	3.88%	1.4384	0.00626	5.03%	
027.42	15	12	0.21862	0.00855	0.21844	0.01143	0.00216	5.23%	0.00803	0.00415	0.00904	3.67%	1.90%	4.13%	2.1773	0.00544	5.03%	
027.43	13	13	0.21858	0.01285	0.21906	0.01374	0.00269	6.27%	0.01169	0.00753	0.01391	5.35%	3.45%	6.36%	1.8464	0.00746	5.03%	
027.44	1		0.20800															
027.52	2	0																
027.53	2	0																
028.31	16	14	91.369	5.3589	90.818	6.3097	1.1520	6.95%	5.2310	1.6458	5.4838	5.73%	1.80%	6.00%	3.3320	1.6720	8.12%	
028.32	4	4	91.850	1.4799	91.850	1.4799	0.52321	1.61%		4.5050			4.90%			4.6500	8.10%	
028.33	3	2	95.275	4.9639	87.717	13.554	5.5333	15.45%	4.9454	0.60601	4.9824	5.19%	0.64%	5.23%	8.2215	12.340	8.16%	
028.41	25	22	93.185	3.0129	93.352	3.2256	0.46557	3.46%	2.6681	1.9792	3.3221	2.86%	2.12%	3.57%	1.6785	2.2050	8.08%	
028.42	18	17	96.829	2.9537	96.515	3.5830	0.59717	3.71%	2.1333	2.8890	3.5913	2.20%	2.98%	3.71%	1.2431	3.8072	8.04%	
028.43	14	13	95.420	9.3325	93.476	8.8922	1.6805	9.51%	9.1219	2.7876	9.5384	9.56%	2.92%	10.00%	3.4217	3.5029	8.08%	
028.44	4	4	58.452	41.588	58.452	41.588	14.703	71.15%	41.541	2.7897	41.634	71.07%	4.77%	71.23%	14.924	3.0501	8.67%	
028.52	2	0																
028.53	3	2	91.275	2.6517	91.583	1.9496	0.79591	2.13%	2.6514	0.05000	2.6519	2.90%	0.05%	2.91%	53.038	2.5000	8.11%	
031.00	1		0.75095															
031.01	64	58	0.75690	0.02163	0.75781	0.01730	0.00157	2.28%	0.02065	0.00911	0.02257	2.73%	1.20%	2.98%	2.4766	0.01062	4.17%	
031.02	1		0.75500															
031.03	6	5	0.75137	0.03254	0.76326	0.02814	0.00812	3.69%	0.03245	0.00345	0.03264	4.32%	0.46%	4.34%	9.4523	0.00698	4.17%	
031.04	1		0.73000															
031.06	1		0.77050															
031.41	33	30	0.76922	0.03528	0.76228	0.01787	0.00223	2.34%	0.03446	0.01071	0.03608	4.48%	1.39%	4.69%	3.3684	0.01435	4.17%	

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
031.42	19	18	0.74271	0.02454	0.74702	0.02491	0.00404	3.33%	0.01860	0.02265	0.02931	2.50%	3.05%	3.95%	1.2941	0.02675	4.18%
031.43	14	13	0.77546	0.03035	0.76869	0.02783	0.00526	3.62%	0.02869	0.01399	0.03192	3.70%	1.80%	4.12%	2.2822	0.01443	4.16%
031.44	3	3	0.72568	0.03443	0.72568	0.03443	0.01405	4.74%	0.03416	0.00605	0.03469	4.71%	0.83%	4.78%	5.7367	0.00770	4.20%
031.52	1		0.65140														
031.53	3	3	0.75533	0.01553	0.75533	0.01553	0.00634	2.06%	0.01532	0.00365	0.01575	2.03%	0.48%	2.08%	4.3128	0.00400	4.17%
031.99	3	3	0.77667	0.05686	0.77667	0.05686	0.02321	7.32%	0.05627	0.01155	0.05745	7.25%	1.49%	7.40%	4.9749	0.01333	4.15%
032.02	6	5	0.78100	0.06963	0.78100	0.06963	0.02202	8.92%	0.06936	0.00868	0.06990	8.88%	1.11%	8.95%	8.0502	0.00960	4.15%
032.31	21	19	0.78323	0.03971	0.78702	0.04224	0.00652	5.37%	0.03915	0.00937	0.04026	5.00%	1.20%	5.14%	4.2952	0.01167	4.15%
032.32	1		0.67500														
032.33	2	0															
032.41	23	21	0.78267	0.03489	0.78242	0.03057	0.00461	3.91%	0.03349	0.01381	0.03623	4.28%	1.76%	4.63%	2.6240	0.01817	4.15%
032.42	17	15	0.78656	0.03405	0.78868	0.03407	0.00602	4.32%	0.03336	0.00965	0.03473	4.24%	1.23%	4.41%	3.5982	0.01091	4.15%
032.43	12	12	0.77096	0.06989	0.78131	0.05713	0.01166	7.31%	0.06927	0.01322	0.07052	8.98%	1.71%	9.15%	5.3337	0.01608	4.15%
032.44	1		0.77250														
032.52	2	0															
032.53	2	0															
032.99	1		0.66950														
033.00	31	31	0.61354	0.06120	0.61269	0.04879	0.00620	7.96%	0.06074	0.01064	0.06167	9.90%	1.74%	10.05%	5.7929	0.01200	4.31%
033.01	36	32	0.66314	0.02487	0.66494	0.01757	0.00213	2.64%	0.02397	0.00941	0.02575	3.61%	1.42%	3.88%	2.7363	0.01038	4.25%
033.03	6	5	0.57300	0.01718	0.57300	0.01718	0.00543	3.00%	0.01304	0.01581	0.02049	2.28%	2.76%	3.58%	1.2961	0.01800	4.35%
033.05	6	6	0.63005	0.03645	0.63172	0.02640	0.00762	4.18%	0.03607	0.00746	0.03683	5.72%	1.18%	5.85%	4.9390	0.00860	4.29%
033.99	9	8	0.59731	0.12851	0.61011	0.13558	0.03196	22.22%	0.12821	0.01232	0.12880	21.47%	2.06%	21.56%	10.454	0.02011	4.31%
034.01	1		0.70350														
034.04	5	5	0.61920	0.05624	0.61920	0.05624	0.01779	9.08%	0.05479	0.01794	0.05766	8.85%	2.90%	9.31%	3.2130	0.02280	17.19%
034.31	1		39.700														
034.42	2	0															
034.43	3	2	0.32250	0.45608	232.38	401.94	164.09	172.96%	0.45574	0.02500	0.45643	141.32%	7.75%	141.53%	18.257	18.350	7.05%
034.52	4	4	0.64675	0.12977	0.64675	0.12977	0.04588	20.07%	0.11906	0.07303	0.13967	18.41%	11.29%	21.60%	1.9125	0.08250	17.08%
034.53	3	3	0.59933	0.08716	0.59933	0.08716	0.03558	14.54%	0.08697	0.00816	0.08735	14.51%	1.36%	14.57%	10.698	0.00933	17.28%
035.01	3	3	0.22883	0.02749	0.22883	0.02749	0.01122	12.01%	0.02743	0.00261	0.02755	11.98%	1.14%	12.04%	10.539	0.00300	4.99%
035.05	7	6	0.23043	0.01140	0.22927	0.01036	0.00299	4.52%	0.01125	0.00266	0.01156	4.88%	1.15%	5.01%	4.3481	0.00243	4.99%
035.31	22	20	0.23400	0.02522	0.23239	0.02110	0.00318	9.08%	0.02469	0.00727	0.02574	10.55%	3.11%	11.00%	3.5417	0.00957	4.98%
035.32	4	3	0.25143	0.00618	0.23358	0.03607	0.01275	15.44%		0.01313			5.22%			0.01645	4.98%
035.33	2	0															
035.41	28	27	0.22863	0.01364	0.22919	0.01510	0.00202	6.59%	0.01290	0.00627	0.01434	5.64%	2.74%	6.27%	2.2863	0.00692	4.99%
035.42	16	15	0.22334	0.01325	0.22400	0.00866	0.00153	3.86%	0.01257	0.00592	0.01389	5.63%	2.65%	6.22%	2.3461	0.00766	5.01%
035.43	9	9	0.23644	0.01495	0.23478	0.01375	0.00324	5.86%	0.01416	0.00676	0.01569	5.99%	2.86%	6.64%	2.3224	0.00622	4.97%
035.52	2	0															

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035.53	2	0															
036.04	4	3	0.26500	0.00000	0.26250	0.00500	0.00177	1.90%		0.00707			2.67%			0.01000	4.89%
036.42	15	13	0.22942	0.00909	0.22961	0.00862	0.00163	3.75%	0.00902	0.00152	0.00915	3.93%	0.66%	3.99%	6.0343	0.00197	4.99%
036.43	9	8	0.23700	0.01112	0.23801	0.01022	0.00255	4.29%	0.01056	0.00491	0.01165	4.46%	2.07%	4.92%	2.3717	0.00550	4.96%
037.31	20	19	94.838	6.1220	94.264	7.3570	1.1632	7.80%	5.9947	1.7564	6.2467	6.32%	1.85%	6.59%	3.5565	1.7815	8.07%
037.32	5	4	97.184	1.5203	94.402	6.3580	2.0106	6.74%		2.6160			2.69%			2.5760	8.07%
037.33	3	2	92.900	11.080	89.517	9.7841	3.9943	10.93%	11.076	0.43960	11.085	11.92%	0.47%	11.93%	25.215	3.9067	8.13%
037.41	25	22	97.537	5.0503	97.895	4.4387	0.64067	4.53%	4.8334	2.0706	5.2582	4.96%	2.12%	5.39%	2.5395	2.8387	8.02%
037.42	16	14	100.58	6.2236	100.77	5.5409	1.0116	5.50%	6.0816	1.8695	6.3625	6.05%	1.86%	6.33%	3.4033	2.4713	7.99%
037.43	16	15	96.046	7.5641	97.146	8.7385	1.5448	9.00%	7.1982	3.2869	7.9132	7.49%	3.42%	8.24%	2.4075	3.5600	8.03%
037.44	2	0															
037.52	1		86.500														
037.53	3	2	96.375	4.7730	96.900	3.4954	1.4270	3.61%	4.7697	0.25000	4.7762	4.95%	0.26%	4.96%	19.105	2.2000	8.04%
038.41	1		1.7650														
038.42	5	5	1.8400	0.32567	1.8400	0.32567	0.10299	17.70%	0.32297	0.05916	0.32835	17.55%	3.22%	17.85%	5.5501	0.06400	14.59%
038.43	6	4	2.0313	0.32245	1.9150	0.38151	0.12064	19.92%	0.32108	0.04198	0.32381	15.81%	2.07%	15.94%	7.7131	0.11800	14.51%
038.52	2	0															
040.43	1		3.4070														
040.52	1		3.3500														
041.42	1		0.00000														
045.00	6	5	0.01191	0.00099	0.01191	0.00099	0.00031	8.35%	0.00098	0.00019	0.00100	8.27%	1.62%	8.42%	5.2156	0.00022	7.79%
045.02	8	6	0.01155	0.00065	0.01155	0.00073	0.00021	6.33%	0.00065	0.00010	0.00065	5.60%	0.87%	5.66%	6.5422	0.00010	7.83%
101.01	1		555.50														
101.02	2	0															
102.02	2	0															
102.99	1		45.360														
104.00	1		5.2450														
104.03	1		4.2350														
104.99	1		2.7450														
105.00	2	0															
106.00	1		3.6000														
106.01	1		2.7150														
106.02	20	17	2.6140	1.0465	2.7022	0.69534	0.11280	25.73%	1.0296	0.26494	1.0631	39.39%	10.14%	40.67%	4.0128	0.34531	
107.00	1		14.400														
107.99	1		13.608														
108.01	2	0															
108.02	4	4	1.5135	0.98422	1.5135	0.98422	0.34798	65.03%	0.98283	0.07421	0.98562	64.94%	4.90%	65.12%	13.282	0.10390	
109.00	1		31.500														

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109.01	1		59.750														
109.02	18	17	48.258	12.886	45.369	10.411	1.7352	22.95%	12.823	1.7919	12.948	26.57%	3.71%	26.83%	7.2260	1.7967	9.01%
112.00	2	0															
112.99	1		3.0350														
113.01	1		1.0800														
114.01	1		0.26500														
115.99	1		0.35000														
120.00	15	14	0.98589	0.02791	0.98790	0.03135	0.00572	3.17%	0.02709	0.00953	0.02872	2.75%	0.97%	2.91%	3.0144	0.01165	4.01%
120.01	2	0															
120.02	3	3	0.99165	0.03811	0.99165	0.03811	0.01556	3.84%	0.03691	0.01340	0.03927	3.72%	1.35%	3.96%	2.9312	0.01563	4.00%
120.05	3	3	0.95767	0.06161	0.95767	0.06161	0.02515	6.43%	0.06100	0.01225	0.06222	6.37%	1.28%	6.50%	5.0802	0.01667	4.03%
120.99	1		1.0700														
121.00	15	14	1.1516	0.03395	1.1504	0.03558	0.00672	3.09%	0.03251	0.01382	0.03533	2.82%	1.20%	3.07%	2.5568	0.01571	3.92%
121.01	2	0															
121.02	3	3	1.1960	0.09043	1.1960	0.09043	0.03692	7.56%	0.09002	0.01220	0.09085	7.53%	1.02%	7.60%	7.4465	0.01700	3.89%
121.05	3	3	1.1320	0.07634	1.1320	0.07634	0.03117	6.74%	0.07373	0.02799	0.07886	6.51%	2.47%	6.97%	2.8172	0.03333	3.93%
121.99	1		1.4050														
122.00	15	15	1.6079	0.05698	1.6070	0.06252	0.01142	3.89%	0.05581	0.01622	0.05812	3.47%	1.01%	3.61%	3.5830	0.01763	3.72%
122.01	2	0															
122.02	3	3	1.6713	0.01888	1.6713	0.01888	0.00771	1.13%	0.01605	0.01404	0.02133	0.96%	0.84%	1.28%	1.5188	0.01983	3.70%
122.05	3	3	1.6002	0.10657	1.6002	0.10657	0.04351	6.66%	0.10601	0.01550	0.10714	6.62%	0.97%	6.70%	6.9132	0.02033	3.73%
122.99	1		1.6200														
123.99	2	0															
124.00	13	12	0.30223	0.01689	0.30110	0.01641	0.00335	5.45%	0.01654	0.00486	0.01723	5.47%	1.61%	5.70%	3.5483	0.00566	4.79%
124.01	2	0															
124.02	3	2	0.33160	0.01188	0.31607	0.02819	0.01151	8.92%	0.01188	0.00020	0.01188	3.58%	0.06%	3.58%	59.401	0.00347	4.76%
124.05	1		0.32500														
124.99	1		0.29000														
125.00	14	14	3.1576	0.09871	3.1672	0.06411	0.01211	2.02%	0.09751	0.02165	0.09989	3.09%	0.69%	3.16%	4.6133	0.02405	3.36%
125.01	2	0															
125.02	3	3	3.1015	0.08856	3.1015	0.08856	0.03615	2.86%	0.08590	0.03047	0.09114	2.77%	0.98%	2.94%	2.9908	0.03933	3.37%
125.05	3	3	3.0578	0.16939	3.0578	0.16939	0.06915	5.54%	0.16774	0.03335	0.17103	5.49%	1.09%	5.59%	5.1283	0.03833	3.38%
126.00	15	14	0.79979	0.01974	0.80313	0.02186	0.00399	2.72%	0.01882	0.00844	0.02063	2.35%	1.06%	2.58%	2.4430	0.01073	4.13%
126.01	2	0															
126.02	3	3	0.78765	0.04789	0.78765	0.04789	0.01955	6.08%	0.04707	0.01243	0.04869	5.98%	1.58%	6.18%	3.9163	0.01217	4.15%
126.05	3	3	0.80800	0.02846	0.80800	0.02846	0.01162	3.52%	0.02776	0.00889	0.02915	3.44%	1.10%	3.61%	3.2797	0.01067	4.13%
126.99	1		0.89500														
127.00	15	14	0.49268	0.01320	0.49407	0.01174	0.00222	2.38%	0.01251	0.00599	0.01387	2.54%	1.21%	2.81%	2.3166	0.00764	4.45%

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127.01	1		0.44000														
127.02	3	3	0.50630	0.04736	0.50630	0.04736	0.01934	9.35%	0.04710	0.00704	0.04763	9.30%	1.39%	9.41%	6.7641	0.00840	4.43%
127.05	3	3	0.50000	0.01249	0.50000	0.01249	0.00510	2.50%	0.01100	0.00837	0.01382	2.20%	1.67%	2.76%	1.6518	0.00867	4.44%
127.99	1		0.50500														
128.00	15	14	0.70932	0.02465	0.70894	0.02712	0.00512	3.83%	0.02417	0.00685	0.02512	3.41%	0.97%	3.54%	3.6658	0.00864	4.21%
128.01	2	0															
128.02	3	3	0.73050	0.03640	0.73050	0.03640	0.01486	4.98%	0.03536	0.01225	0.03742	4.84%	1.68%	5.12%	3.0549	0.01707	4.19%
128.05	3	3	0.73550	0.01817	0.73550	0.01817	0.00742	2.47%	0.01657	0.01056	0.01965	2.25%	1.44%	2.67%	1.8606	0.01433	4.19%
128.99	1		0.67500														
129.00	15	14	1.5645	0.03501	1.5671	0.03431	0.00648	2.19%	0.03340	0.01484	0.03655	2.13%	0.95%	2.34%	2.4628	0.01693	3.74%
129.01	2	0															
129.02	3	3	1.5757	0.04401	1.5757	0.04401	0.01797	2.79%	0.04148	0.02080	0.04641	2.63%	1.32%	2.94%	2.2312	0.02493	3.74%
129.05	3	3	1.5368	0.04744	1.5368	0.04744	0.01937	3.09%	0.04487	0.02174	0.04986	2.92%	1.41%	3.24%	2.2932	0.02900	3.75%
129.99	1		1.6650														
130.00	17	16	0.93501	0.05515	0.92800	0.03358	0.00576	3.62%	0.05445	0.01242	0.05585	5.82%	1.33%	5.97%	4.4972	0.01248	4.04%
130.01	3	3	0.91333	0.05107	0.91333	0.05107	0.02085	5.59%	0.05024	0.01301	0.05189	5.50%	1.42%	5.68%	3.9879	0.01467	4.05%
130.02	3	3	0.87560	0.09658	0.87560	0.09658	0.03943	11.03%	0.09607	0.01393	0.09708	10.97%	1.59%	11.09%	6.9668	0.01567	4.08%
130.05	6	6	0.98615	0.08711	0.96498	0.05768	0.01665	5.98%	0.08561	0.02276	0.08858	8.68%	2.31%	8.98%	3.8926	0.02457	4.02%
130.99	3	3	1.0131	0.11741	1.0131	0.11741	0.04793	11.59%	0.11722	0.00950	0.11760	11.57%	0.94%	11.61%	12.385	0.01213	3.99%
131.00	14	13	0.34939	0.02279	0.34208	0.01318	0.00249	3.85%	0.02114	0.01202	0.02432	6.05%	3.44%	6.96%	2.0230	0.01261	4.70%
131.01	2	0															
131.02	3	3	0.32908	0.02089	0.32908	0.02089	0.00853	6.35%	0.02067	0.00425	0.02110	6.28%	1.29%	6.41%	4.9644	0.00430	4.73%
131.05	3	2	0.34450	0.02192	0.32133	0.04302	0.01756	13.39%	0.02182	0.00300	0.02202	6.33%	0.87%	6.39%	7.3409	0.03000	4.74%
131.99	2	0															
132.00	15	13	0.86046	0.01653	0.85787	0.01997	0.00377	2.33%	0.01377	0.01294	0.01890	1.60%	1.50%	2.20%	1.4603	0.01845	4.09%
132.01	1		0.92750														
132.02	3	3	0.87872	0.01763	0.87872	0.01763	0.00720	2.01%	0.01733	0.00459	0.01792	1.97%	0.52%	2.04%	3.9047	0.00530	4.08%
132.05	3	3	0.85100	0.03119	0.85100	0.03119	0.01273	3.67%	0.03030	0.01049	0.03206	3.56%	1.23%	3.77%	3.0570	0.01400	4.10%
132.99	1		0.84500														
133.00	15	13	1.1230	0.04486	1.1255	0.04873	0.00921	4.33%	0.04291	0.01853	0.04674	3.82%	1.65%	4.16%	2.5223	0.02052	3.93%
133.05	3	3	1.1182	0.05331	1.1182	0.05331	0.02176	4.77%	0.05282	0.01017	0.05379	4.72%	0.91%	4.81%	5.2872	0.01367	3.93%
133.99	3	3	1.3267	0.25624	1.3267	0.25624	0.10461	19.31%	0.25575	0.02236	0.25673	19.28%	1.69%	19.35%	11.481	0.02667	3.83%
134.00	15	14	0.87196	0.04075	0.87089	0.03525	0.00644	4.05%	0.03968	0.01312	0.04179	4.55%	1.50%	4.79%	3.1862	0.01716	4.08%
134.01	2	0															
134.02	3	3	0.82658	0.04968	0.82658	0.04968	0.02028	6.01%	0.04646	0.02490	0.05271	5.62%	3.01%	6.38%	2.1171	0.02770	4.12%
134.05	3	2	0.84675	0.05409	0.87783	0.06604	0.02696	7.52%	0.05325	0.01346	0.05492	6.29%	1.59%	6.49%	4.0797	0.09567	4.08%
134.99	1		0.95500														
135.00	15	15	0.67993	0.04151	0.68491	0.02680	0.00489	3.91%	0.04068	0.01173	0.04233	5.98%	1.73%	6.23%	3.6082	0.01294	4.23%

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
135.01	3	3	0.66717	0.04526	0.66717	0.04526	0.01848	6.78%	0.04035	0.02900	0.04969	6.05%	4.35%	7.45%	1.7136	0.02767	4.25%
135.02	3	3	0.67673	0.00825	0.67673	0.00825	0.00337	1.22%	0.00742	0.00510	0.00901	1.10%	0.75%	1.33%	1.7640	0.00687	4.24%
135.05	3	3	0.63483	0.07117	0.63483	0.07117	0.02905	11.21%	0.07083	0.00987	0.07151	11.16%	1.56%	11.26%	7.2422	0.01300	4.28%
135.99	1		0.73000														
136.00	3	3	0.25417	0.05627	0.25417	0.05627	0.02297	22.14%	0.05607	0.00672	0.05647	22.06%	2.64%	22.22%	8.4023	0.00827	4.92%
136.01	5	5	0.22090	0.01488	0.22090	0.01488	0.00471	6.74%	0.01462	0.00389	0.01513	6.62%	1.76%	6.85%	3.8941	0.00420	5.02%
136.02	2	0															
136.03	1		0.21625														
136.99	1		0.23000														
137.00	13	12	0.59627	0.06185	0.59850	0.04825	0.00985	8.06%	0.06158	0.00817	0.06212	10.33%	1.37%	10.42%	7.6052	0.00923	4.32%
137.01	1		0.69950														
137.02	3	3	0.58638	0.05185	0.58638	0.05185	0.02117	8.84%	0.05183	0.00201	0.05186	8.84%	0.34%	8.84%	25.798	0.00217	4.33%
137.05	3	3	0.56367	0.13062	0.56367	0.13062	0.05332	23.17%	0.12890	0.02986	0.13231	22.87%	5.30%	23.47%	4.4319	0.03000	4.36%
137.99	1		0.64500														
138.00	15	13	0.88146	0.03367	0.87260	0.04090	0.00747	4.69%	0.03311	0.00867	0.03422	3.76%	0.98%	3.88%	3.9476	0.01247	4.08%
138.01	2	0															
138.02	3	3	0.89435	0.11453	0.89435	0.11453	0.04676	12.81%	0.11427	0.01078	0.11478	12.78%	1.21%	12.83%	10.643	0.01477	4.07%
138.05	3	3	0.90200	0.06978	0.90200	0.06978	0.02849	7.74%	0.06934	0.01102	0.07021	7.69%	1.22%	7.78%	6.3741	0.01333	4.06%
138.99	1		0.87000														
139.00	2	0															
139.02	2	0															
160.99	4	3	0.15833	0.14216	0.19375	0.13598	0.04807	70.18%	0.14213	0.00408	0.14219	89.76%	2.58%	89.80%	34.828	0.05250	5.12%
161.99	2	0															
162.99	3	2	0.10000	0.14142	0.14167	0.12332	0.05035	87.05%	0.14142	0.00000	0.14142	141.42%	0.00%	141.42%		0.00333	5.37%
163.99	2	0															
164.99	3	2	0.05000	0.07071	0.14167	0.16646	0.06796	117.50%	0.07071	0.00000	0.07071	141.42%	0.00%	141.42%		0.01333	5.37%
165.99	5	5	2.4023	0.08227	2.4023	0.08227	0.02602	3.42%	0.07006	0.06100	0.09289	2.92%	2.54%	3.87%	1.5229	0.07460	3.51%
166.99	1		0.51050														
167.99	1		1.0060														
400.01	4	3	0.61767	0.00922	0.61850	0.00771	0.00273	1.25%	0.00922	0.00058	0.00923	1.49%	0.09%	1.49%	15.992	0.00300	
400.99	1		0.62530														
516.00	3	2	0.10500	0.00000	0.11450	0.01645	0.00672	14.37%		0.00707			6.73%			0.00833	22.17%
516.42	1		0.00000														
516.52	2	0															
516.53	4	4	0.13238	0.00871	0.13238	0.00871	0.00308	6.58%	0.00365	0.01119	0.01177	2.76%	8.45%	8.89%	1.0519	0.01025	21.69%
518.34	2	0															
518.41	2	0															
518.42	1		0.00000														

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518.52	3	3	0.07617	0.01382	0.07617	0.01382	0.00564	18.15%	0.01130	0.01126	0.01595	14.83%	14.79%	20.94%	1.4165	0.01300	23.57%
518.53	4	4	0.06388	0.00459	0.06388	0.00459	0.00162	7.18%	0.00384	0.00355	0.00523	6.01%	5.56%	8.19%	1.4725	0.00375	24.20%
520.41	1		2.7700														
520.42	2	0															
520.43	5	5	2.4549	0.46111	2.4549	0.46111	0.14582	18.78%	0.45292	0.12240	0.46916	18.45%	4.99%	19.11%	3.8332	0.16340	13.97%
520.52	2	0															
520.53	1		2.9450														
520.99	1		3.1950														
526.31	1		0.05065														
526.34	1		0.08430														
526.42	1		0.00000														
526.52	3	3	0.06433	0.01068	0.06433	0.01068	0.00436	16.60%	0.00938	0.00723	0.01184	14.57%	11.24%	18.41%	1.6371	0.00733	24.17%
526.53	4	3	0.06300	0.01127	0.06563	0.01059	0.00375	16.14%	0.01125	0.00082	0.01128	17.86%	1.30%	17.91%	13.820	0.00225	24.10%
529.00	1		19.460														
529.99	4	3	0.90000	1.5588	4.5500	7.4101	2.6199	162.86%	1.5492	0.24495	1.5684	172.13%	27.22%	174.27%	6.4031	1.9000	36.02%
539.31	1		2.4200														
539.41	1		1.9650														
539.42	1		2.5000														
539.43	4	2	2.4505	0.04879	1.8903	1.2643	0.44701	66.89%		0.15971			6.52%			0.49200	14.53%
539.52	2	0															
539.53	1		2.5300														
600.01	7	7	5.0014	1.9253												0.86000	
600.03	1		4.0000														
600.07	1		4.4500														
600.08	1		6.9500														
600.14	1		2.0000														
600.98	1		4.2500														
601.23	1		4.0000														
602.23	1		0.00000														
603.23	1		0.00000														
604.23	1		0.00000														
610.01	4	4	1,038.2	1,373.7												75.100	
610.25	1		1,027.0														
610.98	1		1,521.0														
620.01	3	2	1,000.8	1,413.1												67.100	
620.07	1		3.5750														
630.01	2	0															
630.03	1		2.0000														

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630.05	1		13.955														
630.20	1		0.00000														
640.01	2	0															
640.03	1		183.45														
640.05	1		233.49														
640.25	1		0.00000														
650.01	5	5	91.086	55.118												11.428	
650.04	1		109.05														
650.06	1		122.00														
650.07	1		215.72														
650.21	1		148.30														