

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201330

Chick Starter, Medicated



AAFCO

Check Sample Program

Issue Date : 12/02/2013

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		0.90000														
000.99	1		0.00000														
001.00	10	7	10.308	0.47989	10.335	0.43571	0.11645	4.22%	0.47537	0.09296	0.48437	4.61%	0.90%	4.70%	5.2106	0.11014	2.81%
001.03	15	14	10.509	0.11584	10.509	0.12425	0.02348	1.18%	0.11508	0.01871	0.11659	1.10%	0.18%	1.11%	6.2303	0.01816	2.81%
001.05	1		10.320														
001.07	36	33	10.404	0.26727	10.374	0.26435	0.03206	2.55%	0.25577	0.10967	0.27829	2.46%	1.05%	2.67%	2.5374	0.12004	2.81%
001.08	2	0															
001.99	18	17	10.214	0.71975	10.266	0.53836	0.09233	5.24%	0.71779	0.07503	0.72170	7.03%	0.73%	7.07%	9.6186	0.07465	2.82%
002.00	3	3	18.603	0.56303	18.603	0.56303	0.22986	3.03%	0.55178	0.15843	0.57407	2.97%	0.85%	3.09%	3.6235	0.17333	2.58%
002.01	15	13	18.461	0.16192	18.438	0.20231	0.03823	1.10%	0.15387	0.07129	0.16958	0.83%	0.39%	0.92%	2.3787	0.07000	2.58%
002.02	5	5	18.409	0.42402	18.409	0.42402	0.13409	2.30%	0.41614	0.11510	0.43176	2.26%	0.63%	2.35%	3.7511	0.15238	2.58%
002.03	1		18.560														
002.04	5	5	17.882	1.1983	17.882	1.1983	0.37895	6.70%	1.1966	0.09022	1.2000	6.69%	0.50%	6.71%	13.301	0.10800	2.59%
002.05	46	41	18.440	0.17974	18.454	0.19616	0.02068	1.06%	0.17530	0.05616	0.18408	0.95%	0.30%	1.00%	3.2778	0.06626	2.58%
002.06	233	137	18.758	0.25913	18.746	0.24813	0.01467	1.32%	0.24511	0.11892	0.27243	1.31%	0.63%	1.45%	2.2909	0.13149	2.57%
002.07	2	0															
002.08	3	3	18.441	0.24399	18.441	0.24399	0.09961	1.32%	0.23529	0.09136	0.25240	1.28%	0.50%	1.37%	2.7628	0.10290	2.58%
002.10	3	3	18.474	0.32537	18.474	0.32537	0.13283	1.76%	0.30611	0.15599	0.34356	1.66%	0.84%	1.86%	2.2024	0.19333	2.58%
002.11	4	4	18.003	0.28227	18.003	0.28227	0.09980	1.57%	0.26007	0.15516	0.30284	1.44%	0.86%	1.68%	1.9518	0.19000	2.59%
002.99	5	5	18.263	0.15081	18.263	0.15081	0.04769	0.83%	0.13130	0.10493	0.16808	0.72%	0.57%	0.92%	1.6018	0.13400	2.58%
003.00	17	15	3.7359	0.37000	3.7913	0.33450	0.05737	8.82%	0.36272	0.10333	0.37715	9.71%	2.77%	10.10%	3.6499	0.13088	3.27%
003.01	3	3	3.5721	0.12408	3.5721	0.12408	0.05065	3.47%	0.05634	0.15634	0.16618	1.58%	4.38%	4.65%	1.0630	0.16360	3.30%
003.06	18	16	3.4959	0.20384	3.5195	0.16607	0.02768	4.72%	0.19838	0.06626	0.20916	5.67%	1.90%	5.98%	3.1565	0.06444	3.31%
003.07	1		3.0295														
003.09	24	20	3.6544	0.14986	3.6441	0.17020	0.02566	4.67%	0.14374	0.05997	0.15575	3.93%	1.64%	4.26%	2.5973	0.07185	3.29%
003.10	35	29	3.3558	0.25335	3.3317	0.24604	0.03125	7.38%	0.25083	0.05039	0.25584	7.47%	1.50%	7.62%	5.0771	0.06185	3.34%
003.11	3	3	3.4800	0.10112	3.4800	0.10112	0.04128	2.91%	0.10004	0.02082	0.10218	2.87%	0.60%	2.94%	4.9088	0.02667	3.32%

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003.12	14	13	3.5037	0.18359	3.4993	0.16932	0.03321	4.84%	0.18296	0.02146	0.18421	5.22%	0.61%	5.26%	8.5847	0.02460	3.31%
003.13	8	8	3.5684	0.38051	3.5729	0.42160	0.10540	11.80%	0.37604	0.08228	0.38493	10.54%	2.31%	10.79%	4.6785	0.10088	3.30%
003.14	34	32	3.4577	0.27037	3.4561	0.25350	0.03074	7.33%	0.26806	0.04990	0.27267	7.75%	1.44%	7.89%	5.4645	0.05333	3.32%
003.99	9	6	2.7417	1.2779	3.2745	0.51529	0.13772	15.74%	1.2772	0.06285	1.2787	46.58%	2.29%	46.64%	20.346	0.10571	3.35%
004.00	19	16	6.3688	0.49720	6.3298	0.58857	0.09810	9.30%	0.48999	0.11932	0.50431	7.69%	1.87%	7.92%	4.2265	0.17111	3.03%
004.01	2	0															
004.03	4	4	6.2013	0.71449	6.2013	0.71449	0.25261	11.52%	0.66374	0.37402	0.76186	10.70%	6.03%	12.29%	2.0370	0.42750	3.04%
004.06	39	37	6.4096	0.34848	6.3899	0.36649	0.04204	5.74%	0.34628	0.05529	0.35067	5.40%	0.86%	5.47%	6.3420	0.06415	3.03%
004.07	57	50	6.0245	0.46872	6.0269	0.44357	0.04268	7.36%	0.46263	0.10655	0.47474	7.68%	1.77%	7.88%	4.4557	0.12950	3.05%
004.11	4	3	6.4083	0.47755	6.1888	0.58729	0.20764	9.49%	0.47730	0.02198	0.47781	7.45%	0.34%	7.46%	21.733	0.09750	3.04%
004.99	2	0															
005.00	192	108	6.5897	0.20510	6.5951	0.22083	0.01482	3.35%	0.20120	0.05633	0.20893	3.05%	0.85%	3.17%	3.7093	0.06362	3.01%
005.02	1		6.8450														
005.03	3	0			6.1875	0.22981	0.11490	3.71%								0.05500	3.04%
005.05	32	28	6.7999	0.09648	6.7988	0.08994	0.01161	1.32%	0.09450	0.02757	0.09843	1.39%	0.41%	1.45%	3.5709	0.03484	3.00%
005.11	4	3	6.5717	0.09088	7.0025	0.86486	0.30577	12.35%		0.15346			2.34%			0.13000	2.98%
005.99	15	14	6.7779	0.17653	6.7941	0.15004	0.02739	2.21%	0.15857	0.10972	0.19283	2.34%	1.62%	2.84%	1.7575	0.10907	3.00%
006.00	2	0															
006.01	2	0															
006.03	1		5.0250														
006.99	5	4	4.1639	1.2275	4.4111	1.1982	0.37891	27.16%	1.2259	0.08827	1.2291	29.44%	2.12%	29.52%	13.925	0.24260	3.20%
008.02	15	14	8.9261	1.1275	8.8935	0.47661	0.08702	5.36%	1.1141	0.24547	1.1408	12.48%	2.75%	12.78%	4.6473	0.24573	2.88%
008.05	1		8.6000														
008.08	31	26	8.5804	0.70145	8.6276	0.45622	0.05990	5.29%	0.69771	0.10232	0.70518	8.13%	1.19%	8.22%	6.8917	0.15430	2.89%
008.99	2	0															
009.04	2	0															
009.07	10	9	25.800	1.3131	25.771	1.3239	0.29604	5.14%	1.3016	0.24485	1.3244	5.04%	0.95%	5.13%	5.4092	0.31980	2.45%
009.09	27	25	24.055	0.96618	24.040	1.1595	0.15779	4.82%	0.94135	0.30774	0.99038	3.91%	1.28%	4.12%	3.2182	0.34519	2.48%
009.99	3	2	22.848	2.0259	23.545	1.8739	0.76502	7.96%	2.0258	0.01500	2.0259	8.87%	0.07%	8.87%	135.06	0.21667	2.49%
010.03	6	5	9.7419	0.94819	9.4589	1.2420	0.35855	13.13%	0.93338	0.23607	0.96277	9.58%	2.42%	9.88%	4.0784	0.52213	2.85%
010.11	4	3	10.098	0.92980	10.173	0.77354	0.27349	7.60%	0.92979	0.00707	0.92982	9.21%	0.07%	9.21%	131.50	0.05500	2.82%
010.99	12	10	10.400	0.29610	10.366	0.33615	0.07167	3.24%	0.29434	0.04565	0.29786	2.83%	0.44%	2.86%	6.5254	0.06622	2.81%
011.01	168	77	11.336	0.37128	11.299	0.40757	0.03126	3.61%	0.36603	0.08796	0.37645	3.23%	0.78%	3.32%	4.2799	0.10821	2.78%
011.02	3	3	10.970	0.18520	10.970	0.18520	0.07561	1.69%	0.16155	0.12806	0.20616	1.47%	1.17%	1.88%	1.6098	0.17333	2.79%
011.03	1		10.955														
011.99	3	3	11.133	0.27131	11.133	0.27131	0.11076	2.44%	0.25876	0.11533	0.28330	2.32%	1.04%	2.54%	2.4565	0.15333	2.78%
012.00	9	9	25.713	1.4576	26.318	0.35725	0.08420	1.36%	1.4531	0.16161	1.4620	5.65%	0.63%	5.69%	9.0469	0.18111	2.45%
012.01	4	4	23.938	2.4360	23.938	2.4360	0.86125	10.18%	2.4337	0.14869	2.4382	10.17%	0.62%	10.19%	16.398	0.19800	2.48%

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012.03	5	4	24.131	1.6125	24.600	1.7461	0.55216	7.10%	1.6015	0.26643	1.6235	6.64%	1.10%	6.73%	6.0934	0.58000	2.47%
012.04	6	6	24.421	2.0917	23.953	1.5306	0.44184	6.39%	2.0719	0.40625	2.1113	8.48%	1.66%	8.65%	5.1970	0.43500	2.48%
012.11	2	0															
013.00	16	15	4.4583	0.64873	4.4399	0.63025	0.11507	14.20%	0.64280	0.12371	0.65460	14.42%	2.77%	14.68%	5.2915	0.14333	3.20%
013.02	105	29	4.7488	0.42257	4.7400	0.46756	0.05938	9.86%	0.41580	0.10655	0.42923	8.76%	2.24%	9.04%	4.0284	0.14326	3.16%
013.08	1		2.0350														
013.10	12	11	4.2055	0.44902	4.2055	0.50919	0.10856	12.11%	0.44678	0.06329	0.45124	10.62%	1.50%	10.73%	7.1302	0.06891	3.22%
013.12	3	0			3.7700	0.33941	0.16971	9.00%								0.05000	3.28%
013.13	3	2	4.5700	0.82024	4.8467	0.75235	0.30715	15.52%	0.81948	0.05000	0.82101	17.93%	1.09%	17.97%	16.420	0.38000	3.15%
014.99	1		29.400														
015.41	5	5	58.007	7.8911	58.007	7.8911	2.4954	13.60%	7.8286	1.4012	7.9530	13.50%	2.42%	13.71%	5.6760	1.6282	8.68%
015.42	1		56.250														
015.43	5	5	61.257	11.537	61.257	11.537	3.6484	18.83%	11.263	3.5396	11.806	18.39%	5.78%	19.27%	3.3353	3.8140	8.61%
015.52	1		66.495														
015.53	2	0															
017.41	2	0															
017.42	3	2	6.5375	0.00354	5.4750	1.8403	0.75130	33.61%		0.11236			1.72%			0.53000	12.39%
017.43	6	5	3.9950	4.0095	4.5692	4.3683	1.2610	95.60%	4.0093	0.05701	4.0097	100.36%	1.43%	100.37%	70.334	0.10500	12.73%
017.53	1		6.9000														
019.00	26	23	1.0512	0.05033	1.0477	0.05844	0.00826	5.58%	0.04887	0.01697	0.05174	4.65%	1.61%	4.92%	3.0483	0.02041	3.97%
019.03	1		1.0867														
019.08	11	9	1.0464	0.03741	1.0559	0.04491	0.01004	4.25%	0.03619	0.01338	0.03859	3.46%	1.28%	3.69%	2.8838	0.01356	3.97%
019.31	37	34	1.0315	0.08297	1.0253	0.06288	0.00741	6.13%	0.08222	0.01575	0.08372	7.97%	1.53%	8.12%	5.3146	0.01942	3.98%
019.32	6	5	1.0176	0.06101	1.0176	0.06101	0.01929	6.00%	0.06077	0.00765	0.06125	5.97%	0.75%	6.02%	8.0059	0.00876	3.99%
019.34	1		0.97500														
019.41	42	40	1.0506	0.04873	1.0539	0.04872	0.00532	4.62%	0.04690	0.01871	0.05050	4.46%	1.78%	4.81%	2.6988	0.02069	3.97%
019.42	17	16	1.0677	0.06199	1.0756	0.06908	0.01185	6.42%	0.05847	0.02915	0.06533	5.48%	2.73%	6.12%	2.2412	0.03375	3.96%
019.43	18	16	1.0745	0.05595	1.0736	0.05557	0.00953	5.18%	0.05360	0.02271	0.05821	4.99%	2.11%	5.42%	2.5627	0.02641	3.96%
019.44	3	2	1.0600	0.01414	1.0553	0.01286	0.00525	1.22%	0.01414	0.00000	0.01414	1.33%	0.00%	1.33%		0.02133	3.97%
019.52	2	0															
019.53	4	4	1.0395	0.09540	1.0395	0.09540	0.03373	9.18%	0.09240	0.03360	0.09831	8.89%	3.23%	9.46%	2.9261	0.03318	3.98%
019.99	2	0															
021.31	4	3	0.80000	1.0583	0.70750	0.88368	0.31243	124.90%	1.0583	0.00000	1.0583	132.29%	0.00%	132.29%		0.00500	16.85%
021.34	1		0.52500														
021.41	4	4	0.48105	0.12792	0.48105	0.12792	0.04523	26.59%	0.12687	0.02311	0.12896	26.37%	4.80%	26.81%	5.5808	0.02725	17.86%
021.42	1		0.00000														
021.43	6	4	0.60250	0.04133	0.57841	0.06263	0.01808	10.83%	0.03995	0.01500	0.04267	6.63%	2.49%	7.08%	2.8447	0.02667	17.37%
021.52	3	3	0.28817	0.03508	0.28817	0.03508	0.01432	12.17%	0.00820	0.04824	0.04893	2.84%	16.74%	16.98%	1.0143	0.06300	19.29%

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021.53	4	3	0.41133	0.17454	0.53050	0.27769	0.09818	52.35%	0.17451	0.00490	0.17458	42.43%	1.19%	42.44%	35.636	0.11500	17.60%
022.31	19	18	20.424	3.0509	20.391	3.0692	0.49788	15.05%	2.9917	0.84651	3.1091	14.65%	4.14%	15.22%	3.6729	0.80611	10.16%
022.32	3	3	23.017	4.0713	23.017	4.0713	1.6621	17.69%	3.7599	2.2087	4.3606	16.34%	9.60%	18.95%	1.9743	2.5067	9.98%
022.33	2	0															
022.41	27	24	19.867	0.91923	19.782	0.94701	0.13133	4.79%	0.79663	0.64865	1.0273	4.01%	3.27%	5.17%	1.5838	0.77858	10.21%
022.42	17	15	20.510	2.0349	20.218	1.7446	0.30841	8.63%	1.9884	0.61150	2.0803	9.69%	2.98%	10.14%	3.4019	0.71313	10.17%
022.43	16	15	18.951	2.4314	19.025	2.0043	0.36594	10.54%	2.4053	0.50229	2.4572	12.69%	2.65%	12.97%	4.8920	0.52733	10.27%
022.44	3	3	13.479	10.560	13.479	10.560	4.3111	78.34%	10.560	0.04262	10.560	78.34%	0.32%	78.34%	247.76	0.04333	10.81%
022.52	1		17.780														
022.53	4	4	19.300	2.9063	19.300	2.9063	1.0275	15.06%	2.8678	0.66708	2.9443	14.86%	3.46%	15.26%	4.4138	0.65000	10.25%
025.31	22	21	214.47	16.812	212.67	15.540	2.3979	7.31%	16.618	3.6021	17.004	7.75%	1.68%	7.93%	4.7205	3.7551	7.14%
025.32	3	3	212.46	4.9600	212.46	4.9600	2.0249	2.33%	4.4291	3.1575	5.4394	2.08%	1.49%	2.56%	1.7227	3.6667	7.14%
025.33	2	0															
025.41	30	26	211.56	22.287	208.99	12.607	1.6846	6.03%	22.186	2.9908	22.387	10.49%	1.41%	10.58%	7.4854	3.6489	7.16%
025.42	14	12	214.92	16.866	216.36	17.339	3.4005	8.01%	16.779	2.4200	16.953	7.81%	1.13%	7.89%	7.0053	2.9169	7.12%
025.43	16	13	205.85	16.989	204.74	18.503	3.3782	9.04%	16.129	7.5473	17.808	7.84%	3.67%	8.65%	2.3595	8.8921	7.18%
025.52	1		168.82														
025.53	3	2	194.00	19.799	184.67	21.385	8.7305	11.58%	19.799	0.00000	19.799	10.21%	0.00%	10.21%		34.667	7.29%
027.31	16	15	0.34484	0.01588	0.34500	0.01550	0.00274	4.49%	0.01525	0.00625	0.01649	4.42%	1.81%	4.78%	2.6364	0.00609	4.69%
027.32	3	3	0.34265	0.01014	0.34265	0.01014	0.00414	2.96%	0.00970	0.00415	0.01056	2.83%	1.21%	3.08%	2.5416	0.00410	4.70%
027.33	1		0.31500														
027.41	26	26	0.36583	0.01741	0.36494	0.01762	0.00244	4.83%	0.01662	0.00732	0.01816	4.54%	2.00%	4.96%	2.4803	0.00813	4.65%
027.42	14	13	0.36347	0.01764	0.36605	0.02086	0.00394	5.70%	0.01704	0.00641	0.01821	4.69%	1.76%	5.01%	2.8414	0.00743	4.65%
027.43	15	14	0.34328	0.02497	0.34488	0.02591	0.00473	7.51%	0.02462	0.00586	0.02531	7.17%	1.71%	7.37%	4.3183	0.00802	4.69%
027.44	2	0															
027.52	1		0.34700														
027.53	3	3	0.36513	0.00520	0.36513	0.00520	0.00212	1.42%	0.00447	0.00376	0.00584	1.22%	1.03%	1.60%	1.5523	0.00367	4.65%
028.31	17	17	135.47	14.011	139.42	7.4785	1.2826	5.36%	13.833	3.1494	14.187	10.21%	2.32%	10.47%	4.5048	3.3459	7.61%
028.32	3	3	136.12	11.140	136.12	11.140	4.5477	8.18%	11.011	2.3836	11.266	8.09%	1.75%	8.28%	4.7266	2.7667	7.64%
028.33	2	0															
028.41	28	26	140.88	6.3636	140.66	5.9041	0.78897	4.20%	5.1577	5.2714	7.3750	3.66%	3.74%	5.24%	1.3990	6.3182	7.60%
028.42	17	17	150.09	13.210	149.34	9.3423	1.6022	6.26%	12.958	3.6294	13.457	8.63%	2.42%	8.97%	3.7078	3.7324	7.53%
028.43	17	16	137.08	15.743	137.43	15.740	2.7825	11.45%	15.319	5.1285	16.155	11.18%	3.74%	11.78%	3.1500	5.3479	7.63%
028.44	4	4	113.14	65.482	113.14	65.482	23.151	57.87%	65.465	2.0743	65.498	57.86%	1.83%	57.89%	31.576	2.1625	7.85%
028.52	1		153.26														
028.53	4	4	142.88	11.811	142.88	11.811	4.1759	8.27%	11.776	1.3000	11.847	8.24%	0.91%	8.29%	9.1131	1.2000	7.58%
031.00	2	0															
031.01	67	60	0.90374	0.03200	0.90604	0.02377	0.00210	2.62%	0.03144	0.00844	0.03255	3.48%	0.93%	3.60%	3.8589	0.00962	4.06%

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 sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.02	3	3	0.90483	0.01314	0.90483	0.01314	0.00536	1.45%	0.01266	0.00498	0.01360	1.40%	0.55%	1.50%	2.7294	0.00567	4.06%
031.03	4	4	0.89664	0.02401	0.89664	0.02401	0.00849	2.68%	0.02265	0.01127	0.02530	2.53%	1.26%	2.82%	2.2445	0.01113	4.07%
031.06	2	0															
031.41	36	32	0.91695	0.03509	0.91544	0.03036	0.00363	3.32%	0.03419	0.01118	0.03597	3.73%	1.22%	3.92%	3.2177	0.01482	4.05%
031.42	19	18	0.90377	0.03992	0.90784	0.03082	0.00500	3.39%	0.03856	0.01459	0.04123	4.27%	1.61%	4.56%	2.8252	0.01491	4.06%
031.43	19	19	0.90885	0.06958	0.91384	0.04912	0.00797	5.38%	0.06887	0.01410	0.07029	7.58%	1.55%	7.73%	4.9851	0.01381	4.05%
031.44	3	3	0.64668	0.46399	0.64668	0.46399	0.18942	71.75%	0.46398	0.00525	0.46401	71.75%	0.81%	71.75%	88.405	0.00490	4.27%
031.52	1		0.81880														
031.53	4	3	0.88958	0.03675	0.89060	0.03007	0.01063	3.38%	0.03635	0.00763	0.03714	4.09%	0.86%	4.18%	4.8654	0.02285	4.07%
031.99	4	3	0.90617	0.00983	0.87338	0.06607	0.02336	7.57%	0.00385	0.01279	0.01335	0.43%	1.41%	1.47%	1.0444	0.01225	4.08%
032.02	7	6	1.0059	0.09091	1.0059	0.10309	0.02976	10.25%	0.09043	0.01317	0.09138	8.99%	1.31%	9.08%	6.9395	0.01450	4.00%
032.31	22	20	1.0662	0.06481	1.0700	0.05849	0.00903	5.47%	0.06404	0.01408	0.06557	6.01%	1.32%	6.15%	4.6572	0.01894	3.96%
032.32	2	0															
032.41	28	26	1.0809	0.03776	1.0799	0.04020	0.00547	3.72%	0.03450	0.02168	0.04075	3.19%	2.01%	3.77%	1.8797	0.02370	3.95%
032.42	15	14	1.0753	0.06141	1.0873	0.05651	0.01032	5.20%	0.05677	0.03312	0.06573	5.28%	3.08%	6.11%	1.9843	0.03285	3.95%
032.43	13	12	1.0695	0.04635	1.0697	0.05211	0.01064	4.87%	0.04416	0.01990	0.04844	4.13%	1.86%	4.53%	2.4342	0.02267	3.96%
032.44	1		1.0900														
032.52	1		1.0291														
032.53	3	3	1.0856	0.02163	1.0856	0.02163	0.00883	1.99%	0.00455	0.02990	0.03024	0.42%	2.75%	2.79%	1.0115	0.03400	3.95%
032.99	1		0.70050														
033.00	36	31	0.47452	0.05686	0.46975	0.05549	0.00663	11.81%	0.05665	0.00682	0.05706	11.94%	1.44%	12.02%	8.3695	0.01011	4.48%
033.01	38	34	0.54563	0.02558	0.54694	0.02256	0.00262	4.12%	0.02511	0.00689	0.02604	4.60%	1.26%	4.77%	3.7793	0.00743	4.38%
033.03	6	5	0.47600	0.01636	0.47078	0.02203	0.00636	4.68%		0.02569			5.40%			0.02000	4.48%
033.05	5	5	0.52400	0.03798	0.52400	0.03798	0.01201	7.25%	0.03785	0.00447	0.03811	7.22%	0.85%	7.27%	8.5220	0.00400	4.41%
033.99	11	10	0.49752	0.08707	0.49457	0.08894	0.01989	17.98%	0.08523	0.02516	0.08886	17.13%	5.06%	17.86%	3.5326	0.02678	4.45%
034.01	2	0															
034.04	3	2	0.47500	0.13435	0.47167	0.09518	0.03886	20.18%	0.13435	0.00000	0.13435	28.28%	0.00%	28.28%		0.00333	17.91%
034.42	1		2.1350														
034.43	2	0															
034.52	2	0															
034.53	4	3	0.60000	0.01000	0.63125	0.06303	0.02228	9.99%	0.00915	0.00572	0.01079	1.52%	0.95%	1.80%	1.8871	0.01100	17.14%
035.01	3	3	0.17017	0.02312	0.17017	0.02312	0.00944	13.58%	0.02310	0.00135	0.02314	13.57%	0.80%	13.60%	17.087	0.00167	5.22%
035.05	9	8	0.17933	0.01173	0.18181	0.01503	0.00354	8.27%	0.01148	0.00346	0.01199	6.40%	1.93%	6.68%	3.4668	0.00439	5.17%
035.31	23	21	0.18310	0.01571	0.18644	0.01782	0.00263	9.56%	0.01504	0.00640	0.01635	8.21%	3.50%	8.93%	2.5534	0.00677	5.15%
035.32	4	4	0.16868	0.04102	0.16868	0.04102	0.01450	24.32%	0.04084	0.00543	0.04120	24.21%	3.22%	24.42%	7.5842	0.00705	5.23%
035.41	37	33	0.18151	0.00992	0.18077	0.00960	0.00115	5.31%	0.00950	0.00405	0.01033	5.23%	2.23%	5.69%	2.5495	0.00427	5.17%
035.42	16	15	0.17551	0.01957	0.17954	0.01842	0.00326	10.26%	0.01873	0.00799	0.02037	10.67%	4.55%	11.60%	2.5480	0.00882	5.18%
035.43	12	10	0.17030	0.01336	0.17472	0.00858	0.00183	4.91%	0.01306	0.00399	0.01366	7.67%	2.34%	8.02%	3.4245	0.00494	5.20%

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035.52	1		0.17900														
035.53	4	3	0.16662	0.00573	0.21689	0.10065	0.03559	46.41%	0.00559	0.00176	0.00586	3.36%	1.05%	3.52%	3.3402	0.00413	5.03%
036.04	3	3	0.25833	0.02255	0.25833	0.02255	0.00920	8.73%	0.02082	0.01225	0.02415	8.06%	4.74%	9.35%	1.9720	0.01667	4.90%
036.42	16	16	0.25341	0.01622	0.25313	0.01649	0.00292	6.52%	0.01559	0.00632	0.01683	6.15%	2.50%	6.64%	2.6615	0.00597	4.92%
036.43	10	9	0.25644	0.00832	0.25608	0.00787	0.00176	3.07%	0.00827	0.00129	0.00837	3.22%	0.50%	3.26%	6.4830	0.00141	4.91%
036.53	1		0.25000														
037.31	23	20	122.93	6.5184	123.73	4.5188	0.68124	3.65%	6.3722	1.9411	6.6613	5.18%	1.58%	5.42%	3.4317	2.4820	7.75%
037.32	3	2	126.40	4.3841	140.94	25.371	10.358	18.00%	4.3646	0.58310	4.4034	3.45%	0.46%	3.48%	7.5518	5.0433	7.60%
037.33	2	0															
037.41	28	27	127.05	7.2247	127.15	7.3028	0.99378	5.74%	6.9360	2.8593	7.5023	5.46%	2.25%	5.90%	2.6238	3.3101	7.71%
037.42	16	15	129.72	7.0628	130.02	7.0271	1.2422	5.40%	6.7193	3.0771	7.3904	5.18%	2.37%	5.70%	2.4017	3.7388	7.69%
037.43	15	14	125.74	9.6056	125.74	9.5008	1.7955	7.56%	9.1291	4.2254	10.060	7.26%	3.36%	8.00%	2.3808	4.1581	7.73%
037.44	3	3	85.300	65.453	85.300	65.453	26.721	76.73%	65.449	1.0246	65.457	76.73%	1.20%	76.74%	63.884	1.1007	8.19%
037.52	1		129.90														
037.53	4	4	121.75	11.493	121.75	11.493	4.0633	9.44%	10.884	5.2202	12.071	8.94%	4.29%	9.91%	2.3124	5.0000	7.77%
038.41	3	3	2.0065	0.04378	2.0065	0.04378	0.01787	2.18%	0.04319	0.01019	0.04437	2.15%	0.51%	2.21%	4.3542	0.01177	14.41%
038.42	3	3	1.4135	1.2283	1.4135	1.2283	0.50145	86.90%	1.2282	0.02101	1.2284	86.89%	1.49%	86.90%	58.461	0.02233	15.18%
038.43	8	7	2.1511	0.15977	2.1204	0.19461	0.04865	9.18%	0.14611	0.09141	0.17235	6.79%	4.25%	8.01%	1.8854	0.09220	14.29%
038.52	2	0															
038.53	3	2	2.3450	0.02121	2.2050	0.24295	0.09918	11.02%		0.06000			2.56%		0.34333	14.20%	
040.43	2	0															
041.43	1		0.00000														
041.53	1		0.48350														
048.00	1		27.150														
048.01	2	0															
048.04	1		29.660														
061.99	1		23.200														
101.01	1		617.00														
101.02	1		581.29														
102.01	1		66.730														
103.01	1		8.8750														
104.00	2	0															
104.03	2	0															
105.00	3	3	2.6132	0.29300	2.6132	0.29300	0.11962	11.21%	0.28634	0.08780	0.29950	10.96%	3.36%	11.46%	3.4112	0.08843	12.29%
105.01	1		3.8200														
105.99	1		3.1500														
106.00	1		2.2500														
106.01	1		1.7750														

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106.02	9	9	1.8293	0.50181	1.7169	0.35327	0.08327	20.58%	0.49860	0.08016	0.50501	27.26%	4.38%	27.61%	6.3000	0.10543	
107.00	1		8.0800														
108.01	1		1.0250														
108.02	4	4	1.6021	1.4646	1.6021	1.4646	0.51781	91.42%	1.4637	0.07401	1.4655	91.36%	4.62%	91.47%	19.801	0.07025	
109.02	9	7	32.884	5.2730	32.535	7.7724	1.8320	23.89%	5.1249	1.7545	5.4169	15.58%	5.34%	16.47%	3.0875	2.6733	9.47%
112.00	1		14.500														
112.99	1		7.1200														
113.01	1		1.2800														
114.01	1		0.37100														
120.00	17	15	0.88027	0.02256	0.88171	0.02174	0.00384	2.47%	0.02212	0.00626	0.02299	2.51%	0.71%	2.61%	3.6745	0.00800	4.08%
120.02	3	3	0.88000	0.03361	0.88000	0.03361	0.01372	3.82%	0.02894	0.02418	0.03771	3.29%	2.75%	4.29%	1.5596	0.02653	4.08%
120.05	3	3	0.83367	0.06898	0.83367	0.06898	0.02816	8.27%	0.06712	0.02252	0.07080	8.05%	2.70%	8.49%	3.1431	0.02467	4.11%
121.00	17	15	1.2346	0.03414	1.2353	0.02894	0.00512	2.34%	0.03375	0.00725	0.03452	2.73%	0.59%	2.80%	4.7616	0.00819	3.87%
121.02	3	3	1.2102	0.06534	1.2102	0.06534	0.02667	5.40%	0.06137	0.03170	0.06908	5.07%	2.62%	5.71%	2.1788	0.03247	3.89%
121.05	3	3	1.1562	0.11088	1.1562	0.11088	0.04527	9.59%	0.10844	0.03269	0.11326	9.38%	2.83%	9.80%	3.4644	0.03900	3.91%
122.00	17	14	1.5021	0.03144	1.5056	0.03021	0.00534	2.01%	0.03027	0.01199	0.03256	2.02%	0.80%	2.17%	2.7147	0.01450	3.76%
122.02	3	2	1.5316	0.02602	1.5471	0.03250	0.01327	2.10%	0.02501	0.01014	0.02699	1.63%	0.66%	1.76%	2.6610	0.06047	3.75%
122.05	3	3	1.4660	0.11831	1.4660	0.11831	0.04830	8.07%	0.10747	0.06996	0.12824	7.33%	4.77%	8.75%	1.8329	0.08133	3.78%
123.99	1		3.3300														
124.00	18	16	0.34868	0.02132	0.34912	0.02254	0.00386	6.46%	0.02105	0.00479	0.02158	6.04%	1.37%	6.19%	4.5030	0.00819	4.69%
124.02	2	0															
124.05	2	0															
125.00	16	13	3.4275	0.11780	3.4153	0.10852	0.01981	3.18%	0.11666	0.02311	0.11893	3.40%	0.67%	3.47%	5.1465	0.03520	3.32%
125.02	3	3	3.5081	0.07699	3.5081	0.07699	0.03143	2.19%	0.05665	0.07373	0.09298	1.61%	2.10%	2.65%	1.2610	0.07510	3.31%
125.05	3	3	3.3318	0.30524	3.3318	0.30524	0.12462	9.16%	0.30292	0.05320	0.30755	9.09%	1.60%	9.23%	5.7812	0.06167	3.34%
125.99	1		3.2230														
126.00	17	15	0.89350	0.02347	0.89043	0.02156	0.00381	2.42%	0.02335	0.00346	0.02360	2.61%	0.39%	2.64%	6.8228	0.00419	4.07%
126.02	3	3	0.91460	0.01062	0.91460	0.01062	0.00433	1.16%	0.00277	0.01449	0.01475	0.30%	1.58%	1.61%	1.0181	0.01533	4.05%
126.05	3	3	0.87767	0.04669	0.87767	0.04669	0.01906	5.32%	0.04614	0.01017	0.04724	5.26%	1.16%	5.38%	4.6476	0.01400	4.08%
127.00	17	16	0.49441	0.01396	0.49490	0.01470	0.00260	2.97%	0.01334	0.00584	0.01456	2.70%	1.18%	2.94%	2.4932	0.00556	4.45%
127.02	2	0															
127.05	3	3	0.48633	0.04490	0.48633	0.04490	0.01833	9.23%	0.04459	0.00737	0.04520	9.17%	1.52%	9.29%	6.1316	0.01000	4.46%
128.00	17	15	0.65687	0.01736	0.65499	0.02034	0.00360	3.11%	0.01647	0.00776	0.01821	2.51%	1.18%	2.77%	2.3452	0.00938	4.26%
128.02	3	3	0.65697	0.02770	0.65697	0.02770	0.01131	4.22%	0.02176	0.02425	0.03258	3.31%	3.69%	4.96%	1.3435	0.02533	4.26%
128.05	3	3	0.61867	0.06986	0.61867	0.06986	0.02852	11.29%	0.06785	0.02357	0.07183	10.97%	3.81%	11.61%	3.0470	0.02267	4.30%
129.00	17	16	1.2821	0.03225	1.2856	0.03835	0.00658	2.98%	0.03171	0.00837	0.03279	2.47%	0.65%	2.56%	3.9177	0.01024	3.85%
129.02	3	2	1.3220	0.02408	1.3347	0.02776	0.01133	2.08%	0.02380	0.00515	0.02435	1.80%	0.39%	1.84%	4.7248	0.04550	3.83%
129.05	3	2	1.2090	0.04172	1.2515	0.07930	0.03238	6.34%	0.04161	0.00430	0.04183	3.44%	0.36%	3.46%	9.7253	0.04767	3.87%

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130.00	19	17	0.86362	0.02687	0.86557	0.03085	0.00514	3.56%	0.02620	0.00842	0.02752	3.03%	0.97%	3.19%	3.2685	0.00989	4.09%
130.01	1		1.0125														
130.02	3	3	0.91320	0.03365	0.91320	0.03365	0.01374	3.68%	0.02463	0.03243	0.04072	2.70%	3.55%	4.46%	1.2556	0.03587	4.05%
130.05	6	5	0.87430	0.05162	0.89315	0.04181	0.01207	4.68%	0.05095	0.01167	0.05227	5.83%	1.33%	5.98%	4.4808	0.02583	4.07%
130.99	1		0.83500														
131.00	19	17	0.28069	0.01708	0.28035	0.01311	0.00219	4.68%	0.01633	0.00706	0.01779	5.82%	2.51%	6.34%	2.5206	0.00869	4.84%
131.01	1		0.26800														
131.02	2	0															
131.05	6	5	0.23290	0.04137	0.24518	0.05408	0.01561	22.06%	0.03995	0.01518	0.04274	17.15%	6.52%	18.35%	2.8152	0.01550	4.94%
131.99	1		0.23500														
132.00	17	15	0.78267	0.01985	0.78055	0.02127	0.00376	2.72%	0.01925	0.00684	0.02043	2.46%	0.87%	2.61%	2.9881	0.01138	4.15%
132.01	1		0.80900														
132.02	3	2	0.78903	0.00138	0.80002	0.01906	0.00778	2.38%	0.00106	0.00125	0.00164	0.13%	0.16%	0.21%	1.3103	0.02350	4.14%
132.05	3	2	0.72300	0.02404	0.75133	0.05194	0.02120	6.91%	0.02386	0.00412	0.02422	3.30%	0.57%	3.35%	5.8737	0.02667	4.18%
133.00	17	15	1.0951	0.03794	1.1074	0.02700	0.00477	2.44%	0.03644	0.01492	0.03938	3.33%	1.36%	3.60%	2.6388	0.02094	3.94%
133.05	3	3	1.0922	0.03314	1.0922	0.03314	0.01353	3.03%	0.02813	0.02478	0.03749	2.58%	2.27%	3.43%	1.5129	0.02367	3.95%
133.99	1		1.4450														
134.00	17	15	0.82273	0.02491	0.81807	0.02400	0.00424	2.93%	0.02426	0.00801	0.02555	2.95%	0.97%	3.11%	3.1902	0.01125	4.12%
134.01	1		0.83950														
134.02	3	3	0.82592	0.07528	0.82592	0.07528	0.03073	9.11%	0.07322	0.02473	0.07728	8.86%	2.99%	9.36%	3.1250	0.02830	4.12%
134.05	3	3	0.83833	0.04400	0.83833	0.04400	0.01796	5.25%	0.04002	0.02584	0.04764	4.77%	3.08%	5.68%	1.8436	0.03067	4.11%
135.00	17	15	0.64847	0.01123	0.65050	0.01205	0.00213	1.85%	0.01005	0.00707	0.01229	1.55%	1.09%	1.89%	1.7389	0.00750	4.27%
135.01	1		0.65900														
135.02	3	2	0.65865	0.01605	0.67143	0.02488	0.01016	3.71%	0.01604	0.00070	0.01606	2.44%	0.11%	2.44%	22.941	0.01713	4.25%
135.05	3	3	0.60533	0.07766	0.60533	0.07766	0.03170	12.83%	0.07672	0.01703	0.07858	12.67%	2.81%	12.98%	4.6146	0.02067	4.31%
136.00	5	5	0.28070	0.03284	0.28070	0.03284	0.01038	11.70%	0.03204	0.01018	0.03362	11.41%	3.63%	11.98%	3.3015	0.01140	4.84%
136.01	5	4	0.26513	0.00525	0.25820	0.01614	0.00510	6.25%	0.00516	0.00137	0.00534	1.95%	0.52%	2.01%	3.8987	0.00160	4.90%
136.02	1		0.23000														
136.03	1		0.26425														
136.05	1		0.20350														
136.99	2	0															
137.00	11	9	0.51894	0.02524	0.52102	0.01618	0.00362	3.11%	0.02439	0.00918	0.02606	4.70%	1.77%	5.02%	2.8388	0.00950	4.41%
137.01	1		0.60900														
137.02	3	3	0.54348	0.05516	0.54348	0.05516	0.02252	10.15%	0.05256	0.02368	0.05765	9.67%	4.36%	10.61%	2.4345	0.02363	4.38%
137.05	3	3	0.48117	0.10022	0.48117	0.10022	0.04092	20.83%	0.09825	0.02801	0.10216	20.42%	5.82%	21.23%	3.6474	0.03433	4.47%
138.00	17	15	0.85517	0.02669	0.85932	0.03188	0.00547	3.71%	0.02564	0.01046	0.02769	3.00%	1.22%	3.24%	2.6465	0.01312	4.09%
138.01	1		0.95800														
138.02	3	3	0.87445	0.06349	0.87445	0.06349	0.02592	7.26%	0.06091	0.02530	0.06596	6.97%	2.89%	7.54%	2.6074	0.02510	4.08%

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
138.05	3	3	0.82917	0.09178	0.82917	0.09178	0.03747	11.07%	0.09042	0.02228	0.09313	10.91%	2.69%	11.23%	4.1794	0.02367	4.11%
139.00	2	0															
139.02	2	0															
160.99	3	3	0.19600	0.04293	0.19600	0.04293	0.01753	21.90%	0.01828	0.05493	0.05789	9.33%	28.03%	29.54%	1.0539	0.06400	5.11%
161.99	2	0															
162.99	4	3	0.27533	0.08343	0.41900	0.29530	0.10440	70.48%	0.08338	0.00416	0.08348	30.28%	1.51%	30.32%	20.051	0.02800	4.56%
163.99	3	0			0.00000	0.00000	0.00000									0.00000	#DIV/0!
164.99	3	2	0.05000	0.07071	0.17050	0.21462	0.08762	125.88%	0.07071	0.00000	0.07071	141.42%	0.00%	141.42%		0.00167	5.22%
165.99	6	5	2.5925	0.30185	2.5925	0.30185	0.09545	11.64%	0.29988	0.04865	0.30380	11.57%	1.88%	11.72%	6.2446	0.04860	3.47%
400.01	4	3	0.57683	0.00898	0.57888	0.00839	0.00297	1.45%	0.00895	0.00091	0.00900	1.55%	0.16%	1.56%	9.8590	0.00325	
400.99	1		0.59030														
516.00	2	0															
516.43	4	3	0.20400	0.20603	0.18050	0.17466	0.06175	96.77%	0.20603	0.00000	0.20603	100.99%	0.00%	100.99%		0.04500	20.70%
516.52	1		0.09000														
516.53	5	4	0.06765	0.00647	0.05412	0.03077	0.00973	56.85%	0.00553	0.00476	0.00729	8.17%	7.03%	10.78%	1.5326	0.00436	24.81%
518.33	1		0.06500														
518.41	4	3	0.07917	0.00804	0.17444	0.19065	0.06741	109.30%	0.00704	0.00549	0.00893	8.89%	6.94%	11.27%	1.6251	0.01488	20.80%
518.42	1		0.08050														
518.43	3	3	0.05733	0.06133	0.05733	0.06133	0.02504	106.97%	0.06066	0.01275	0.06199	105.81%	22.25%	108.12%	4.8603	0.01467	24.60%
518.52	2	0															
518.53	6	4	0.07105	0.00657	0.07558	0.00898	0.00259	11.88%	0.00650	0.00139	0.00664	9.14%	1.96%	9.35%	4.7824	0.00227	23.60%
520.41	3	3	1.3160	0.35154	1.3160	0.35154	0.14352	26.71%	0.35103	0.02686	0.35206	26.67%	2.04%	26.75%	13.107	0.02567	15.35%
520.43	4	3	0.79500	0.72203	1.3588	1.2723	0.44983	93.64%	0.72138	0.04340	0.72268	90.74%	5.46%	90.90%	16.653	0.31250	15.28%
520.52	1		2.7050														
520.53	3	2	1.0235	0.46881	1.1657	0.41295	0.16859	35.43%	0.46869	0.01500	0.46893	45.79%	1.47%	45.82%	31.262	0.09000	15.63%
520.99	1		2.5850														
526.31	1		0.01600														
526.33	1		0.45000														
526.34	1		0.13000														
526.41	2	0															
526.43	4	3	0.09200	0.10096	0.09650	0.08292	0.02932	85.93%	0.10096	0.00000	0.10096	109.73%	0.00%	109.73%		0.00500	22.74%
526.52	2	0															
526.53	4	4	0.08964	0.00990	0.08964	0.00990	0.00350	11.04%	0.00805	0.00814	0.01145	8.98%	9.08%	12.77%	1.4068	0.00833	23.00%
529.99	4	2	0.00000	0.00000	13.250	26.500	9.3691	200.00%	0.00000	0.00000	0.00000					0.00005	30.66%
539.31	1		1.1150														
539.41	1		1.4703														
539.43	4	4	1.8107	1.5307	1.8107	1.5307	0.54119	84.54%	1.4645	0.62996	1.5942	80.88%	34.79%	88.04%	2.5307	0.63023	14.63%
539.52	1		1.5900														

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539.53	5	4	1.4240	0.20598	1.4602	0.19589	0.06195	13.42%	0.20560	0.01768	0.20636	14.44%	1.24%	14.49%	11.673	0.04800	15.11%
600.01	6	6	3.8633	0.93331												0.62000	
600.03	1		4.0000														
600.08	2	0															
600.13	1		6.5390														
600.14	1		1.5000														
600.20	1		2.3630														
601.23	1		1.3835														
602.23	1		0.0000														
603.23	1		0.5940														
604.23	1		1.2870														
610.01	3	3	1,250.0	832.17												233.33	
610.02	1		498.90														
610.06	1		1,004.0														
610.08	1		0.00095														
610.23	2	0															
610.25	1		777.00														
620.01	1		200.00														
620.04	1		1,025.0														
620.07	1		0.0000														
620.08	1		1,237.5														
620.09	1		0.00175														
620.23	1		816.30														
621.23	3	2	781.99	196.45												464.78	
622.23	2	0															
623.23	1		116.23														
630.01	2	0															
630.03	1		6.6550														
630.20	1		0.0000														
630.23	2	0															
640.01	2	0															
640.04	1		43.300														
640.23	2	0															
640.25	1		0.0000														
650.01	3	3	91.585	53.728												12.630	
650.04	1		0.0000														
650.05	1		25.050														
650.21	1		0.0000														

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
650.23	1	1	0.00000														
650.24	1	1	0.00000														