

**AAFCO Check Sample Program**  
**Method Performance & Summary Report**



**AAFCO**  
**Check Sample Program**



**Sample # 201626**  
**Llama Feed**  
**Regular Program**

**# Labs Reporting: 199**  
**Issue Date : 07/31/2016**

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
000.02	1		0.70000														
001.00	9	8	7.1284	0.25980	7.0613	0.35783	0.11928	5.07%	0.24642	0.11637	0.27251	3.46%	1.63%	3.82%	2.3419	0.12478	2.98%
001.03	4	4	7.2538	0.03614	7.2538	0.03614	0.01807	0.50%	0.03482	0.01369	0.03742	0.48%	0.19%	0.52%	2.7325	0.01750	2.97%
001.05	1		7.0150														
001.07	38	32	7.2280	0.28354	7.2061	0.29956	0.04993	4.16%	0.27509	0.09715	0.29174	3.81%	1.34%	4.04%	3.0030	0.11248	2.97%
001.08	2	0															
001.99	21	19	7.1435	0.48527	7.0675	0.47232	0.10307	6.68%	0.48270	0.07060	0.48783	6.76%	0.99%	6.83%	6.9102	0.09451	2.98%
002.00	5	3	16.988	0.15735	16.988	0.15735	0.09084	0.93%	0.15061	0.06442	0.16381	0.89%	0.38%	0.96%	2.5428	0.23940	2.43%
002.01	13	12	17.239	0.15393	17.215	0.19444	0.05393	1.13%	0.14926	0.05321	0.15847	0.87%	0.31%	0.92%	2.9780	0.06330	2.41%
002.02	3	3	17.274	0.32269	17.274	0.32269	0.18631	1.87%	0.31318	0.11001	0.33194	1.81%	0.64%	1.92%	3.0173	0.15363	2.41%
002.04	6	5	17.130	0.36158	17.262	0.51794	0.21145	3.00%	0.35407	0.10363	0.36893	2.07%	0.60%	2.15%	3.5599	0.21667	2.41%
002.05	28	26	17.205	0.22662	17.197	0.23513	0.04525	1.37%	0.22098	0.07105	0.23212	1.28%	0.41%	1.35%	3.2672	0.08246	2.41%
002.06	126	118	17.547	0.31344	17.558	0.30620	0.02739	1.74%	0.30148	0.12131	0.32497	1.72%	0.69%	1.85%	2.6788	0.15296	2.39%
002.08	3	3	17.147	0.26922	17.147	0.26922	0.15543	1.57%	0.20979	0.23861	0.31772	1.22%	1.39%	1.85%	1.3315	0.23830	2.41%
002.10	1		17.760														
002.11	9	9	20.351	1.9503	20.379	2.1484	0.71613	10.54%	1.9449	0.20499	1.9556	9.56%	1.01%	9.61%	9.5401	0.24942	2.22%
002.99	4	4	17.176	0.60478	17.176	0.60478	0.30239	3.52%	0.59643	0.14164	0.61302	3.47%	0.82%	3.57%	4.3279	0.17750	2.41%
003.00	16	14	2.7867	0.19907	2.8006	0.19357	0.04998	6.91%	0.19022	0.08302	0.20755	6.83%	2.98%	7.45%	2.5000	0.12929	3.43%
003.01	2	0															
003.06	17	15	2.6941	0.38576	2.6705	0.27019	0.06755	10.12%	0.37628	0.12024	0.39502	13.97%	4.46%	14.66%	3.2853	0.13656	3.45%
003.09	18	18	2.7684	0.22461	2.7546	0.14447	0.03405	5.24%	0.22194	0.04886	0.22725	8.02%	1.76%	8.21%	4.6512	0.05422	3.43%
003.10	35	32	2.4286	0.34601	2.4571	0.32342	0.05547	13.16%	0.34031	0.08850	0.35163	14.01%	3.64%	14.48%	3.9732	0.09279	3.49%
003.11	8	7	3.1336	0.79458	3.1336	0.90106	0.34057	28.76%	0.79442	0.02252	0.79474	25.35%	0.72%	25.36%	35.291	0.02429	3.37%
003.12	3	3	2.6000	0.33723	2.6000	0.33723	0.19470	12.97%	0.33162	0.08660	0.34275	12.75%	3.33%	13.18%	3.9577	0.08000	3.46%
003.13	7	7	2.4939	0.22813	2.4939	0.25869	0.09778	10.37%	0.21941	0.08830	0.23652	8.80%	3.54%	9.48%	2.6785	0.09414	3.49%
003.14	39	37	2.5664	0.25943	2.5599	0.26204	0.04251	10.24%	0.25207	0.08675	0.26658	9.82%	3.38%	10.39%	3.0729	0.09593	3.47%
003.99	3	3	2.7633	0.43024	2.7633	0.43024	0.24840	15.57%	0.43022	0.00577	0.43026	15.57%	0.21%	15.57%	74.523	0.00667	3.43%
004.00	19	16	17.015	0.52368	16.996	0.63478	0.14962	3.73%	0.51777	0.11092	0.52952	3.04%	0.65%	3.11%	4.7741	0.15066	2.43%
004.01	2	0															
004.03	5	5	16.385	2.5636	16.385	2.5636	1.1465	15.65%	2.4863	0.88391	2.6387	15.17%	5.39%	16.10%	2.9853	1.0319	2.47%
004.06	24	22	16.670	0.42565	16.667	0.40901	0.08528	2.45%	0.41684	0.12182	0.43428	2.50%	0.73%	2.61%	3.5648	0.14520	2.45%
004.07	61	55	16.902	1.1890	16.827	1.0938	0.14362	6.50%	1.1714	0.28787	1.2063	6.93%	1.70%	7.14%	4.1904	0.36993	2.44%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
004.11	7	6	14.665	2.3952	14.665	2.7161	1.1088	18.52%	2.3939	0.11136	2.3965	16.32%	0.76%	16.34%	21.521	0.11333	2.61%
004.99	4	4	15.627	0.78183	15.627	0.78183	0.39091	5.00%	0.68841	0.52410	0.86521	4.41%	3.35%	5.54%	1.6509	0.52075	2.53%
005.00	92	82	16.576	0.19660	16.579	0.19795	0.02087	1.19%	0.18845	0.07924	0.20443	1.14%	0.48%	1.23%	2.5800	0.10476	2.46%
005.05	21	20	16.719	0.21359	16.711	0.22477	0.05026	1.35%	0.20653	0.07704	0.22043	1.24%	0.46%	1.32%	2.8614	0.08838	2.45%
005.11	8	8	13.329	4.4967	13.329	5.0993	1.8029	38.26%	4.4921	0.28920	4.5014	33.70%	2.17%	33.77%	15.565	0.33015	2.71%
005.99	11	9	16.670	0.22420	16.697	0.28322	0.08539	1.70%	0.20560	0.12645	0.24137	1.23%	0.76%	1.45%	1.9088	0.17545	2.45%
006.01	2	0															
006.05	1		6.4500														
006.99	2	0															
008.02	17	15	22.421	1.0468	22.288	1.2380	0.30026	5.55%	1.0242	0.30577	1.0689	4.57%	1.36%	4.77%	3.4958	0.38718	2.12%
008.05	1		24.150														
008.08	36	34	22.018	1.4024	22.085	1.5999	0.27043	7.24%	1.3730	0.40412	1.4312	6.24%	1.84%	6.50%	3.5417	0.44570	2.13%
008.99	4	3	20.708	0.89530	20.708	0.89530	0.51690	4.32%	0.89238	0.10206	0.89820	4.31%	0.49%	4.34%	8.8005	0.31250	2.20%
009.04	1		37.020														
009.07	10	10	33.907	2.0242	33.934	2.2364	0.70720	6.59%	1.9804	0.59249	2.0671	5.84%	1.75%	6.10%	3.4889	0.61970	1.72%
009.09	29	26	33.245	1.7365	33.391	1.8196	0.34386	5.45%	1.7050	0.46581	1.7675	5.13%	1.40%	5.32%	3.7944	0.53553	1.73%
009.99	4	3	34.118	0.90283	34.118	0.90283	0.52125	2.65%	0.89446	0.17345	0.91113	2.62%	0.51%	2.67%	5.2531	0.59750	1.71%
010.03	4	4	6.8075	0.31466	6.8075	0.31466	0.15733	4.62%	0.31336	0.04031	0.31594	4.60%	0.59%	4.64%	7.8376	0.05000	3.00%
010.11	6	5	8.0551	0.25419	8.0551	0.25419	0.11368	3.16%	0.24999	0.06512	0.25833	3.10%	0.81%	3.21%	3.9670	0.07950	2.92%
010.99	17	15	7.3750	0.50212	7.3091	0.51915	0.12979	7.10%	0.49756	0.09541	0.50663	6.75%	1.29%	6.87%	5.3099	0.13188	2.96%
011.01	73	66	8.2463	0.42586	8.2676	0.37028	0.04394	4.48%	0.42064	0.09397	0.43101	5.10%	1.14%	5.23%	4.5868	0.10782	2.91%
011.02	2	0															
011.03	1		7.5550														
011.99	3	3	7.8533	0.13475	7.8533	0.13475	0.07780	1.72%		0.20889			2.66%		0.28000	2.93%	
012.00	10	9	8.7434	0.52681	8.7378	0.58499	0.19500	6.69%	0.52013	0.11825	0.53340	5.95%	1.35%	6.10%	4.5107	0.12778	2.89%
012.01	8	7	6.5311	0.60568	6.7408	0.58337	0.20625	8.65%	0.58578	0.21772	0.62494	8.97%	3.33%	9.57%	2.8704	0.28275	3.00%
012.02	1		8.8450														
012.03	5	3	7.2356	0.78012	7.2356	0.78012	0.45040	10.78%	0.77856	0.06965	0.78167	10.76%	0.96%	10.80%	11.223	0.14440	2.97%
012.04	5	5	6.8280	0.86043	6.8280	0.86043	0.38479	12.60%	0.85486	0.13820	0.86596	12.52%	2.02%	12.68%	6.2658	0.15200	3.00%
012.11	6	4	8.5775	3.7902	8.5775	3.7902	1.6950	44.19%	3.7889	0.14335	3.7916	44.17%	1.67%	44.20%	26.449	0.74980	2.89%
012.99	1		21.325														
013.00	17	15	3.4577	0.53984	3.4717	0.56332	0.14083	16.23%	0.53764	0.06883	0.54203	15.55%	1.99%	15.68%	7.8753	0.09331	3.32%
013.02	19	17	3.9765	0.40567	4.0307	0.36946	0.08708	9.17%	0.40038	0.09232	0.41089	10.07%	2.32%	10.33%	4.4505	0.12556	3.24%
013.08	1		3.1551														
013.10	7	7	3.3682	0.31575	3.3682	0.35806	0.13534	10.63%	0.29573	0.15648	0.33458	8.78%	4.65%	9.93%	2.1382	0.17651	3.33%
013.13	6	6	4.1023	1.4042	4.1023	1.5924	0.65009	38.82%	1.4002	0.14965	1.4082	34.13%	3.65%	34.33%	9.4098	0.17783	3.23%
015.41	4	3	1,620.8	539.23	1,620.8	539.23	311.33	33.27%	537.48	61.501	540.98	33.16%	3.79%	33.38%	8.7964	2,512.5	5.26%
015.42	1		1,447.5														
015.43	7	7	1,519.8	480.65	1,519.8	545.06	206.01	35.86%	480.22	28.720	481.08	31.60%	1.89%	31.65%	16.751	32.878	5.31%
015.52	1		680.82														
015.53	1		2,375.0														
017.41	4	4	20.104	2.0132	20.104	2.0132	1.0066	10.01%	1.8183	1.2220	2.1908	9.04%	6.08%	10.90%	1.7928	1.4325	10.18%
017.42	5	4	19.503	3.9673	19.503	3.9673	1.9836	20.34%	3.9509	0.50890	3.9835	20.26%	2.61%	20.43%	7.8277	1.1476	10.23%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
017.43	6	4	19.506	1.3311	19.506	1.3311	0.59529	6.82%	1.2993	0.40928	1.3622	6.66%	2.10%	6.98%	3.3283	0.37800	10.23%
017.52	2	0															
019.00	13	13	1.9712	0.08258	1.9710	0.08161	0.02264	4.14%	0.07818	0.03763	0.08677	3.97%	1.91%	4.40%	2.3057	0.03843	3.61%
019.02	1		2.4915														
019.03	1		2.0832														
019.08	8	7	2.0464	0.05004	2.0464	0.05674	0.02145	2.77%	0.04554	0.02931	0.05416	2.23%	1.43%	2.65%	1.8478	0.03221	3.59%
019.09	2	0															
019.31	27	24	1.9794	0.08795	1.9905	0.10537	0.02067	5.29%	0.08411	0.03636	0.09163	4.25%	1.84%	4.63%	2.5201	0.05072	3.61%
019.32	5	5	2.1090	0.13836	2.1090	0.13836	0.06187	6.56%	0.13500	0.04282	0.14163	6.40%	2.03%	6.72%	3.3075	0.05120	3.57%
019.33	2	0															
019.41	30	28	2.0168	0.10402	2.0169	0.10751	0.01996	5.33%	0.10180	0.03022	0.10619	5.05%	1.50%	5.27%	3.5145	0.03745	3.60%
019.42	21	18	2.0256	0.09343	2.0067	0.10744	0.02402	5.35%	0.08664	0.04946	0.09976	4.28%	2.44%	4.93%	2.0169	0.06223	3.60%
019.43	22	21	2.0007	0.12102	2.0108	0.14077	0.03001	7.00%	0.11575	0.04995	0.12607	5.79%	2.50%	6.30%	2.5240	0.05718	3.60%
019.44	1		1.9150														
019.52	4	4	2.0004	0.22128	2.0004	0.22128	0.11064	11.06%	0.21847	0.04965	0.22404	10.92%	2.48%	11.20%	4.5121	0.06460	3.60%
019.53	2	0															
019.99	5	4	1.9548	0.12723	1.9548	0.12723	0.06361	6.51%	0.12362	0.04254	0.13074	6.32%	2.18%	6.69%	3.0734	0.04480	3.62%
021.31	3	3	5.8300	0.52460	5.8300	0.52460	0.30288	9.00%	0.28077	0.62668	0.68671	4.82%	10.75%	11.78%	1.0958	0.74000	12.27%
021.34	1		7.3300														
021.41	3	3	5.2668	0.96203	5.2668	0.96203	0.55543	18.27%	0.95802	0.12416	0.96603	18.19%	2.36%	18.34%	7.7802	0.11967	12.46%
021.42	3	3	5.9030	0.54301	5.9030	0.54301	0.31351	9.20%	0.42301	0.48150	0.64092	7.17%	8.16%	10.86%	1.3311	0.65330	12.25%
021.43	4	4	5.9463	0.78243	5.9463	0.78243	0.39121	13.16%	0.77832	0.11319	0.78651	13.09%	1.90%	13.23%	6.9484	0.13750	12.23%
021.52	4	3	4.9408	0.37377	4.9408	0.37377	0.21579	7.56%	0.36930	0.08149	0.37818	7.47%	1.65%	7.65%	4.6410	1.0178	12.58%
021.53	5	4	6.2030	0.89386	6.2030	0.89386	0.44693	14.41%	0.86992	0.29059	0.91717	14.02%	4.68%	14.79%	3.1563	0.63290	12.15%
022.31	15	13	30.247	1.7431	30.229	1.8641	0.48131	6.17%	1.6183	0.91588	1.8595	5.35%	3.03%	6.15%	2.0303	0.91920	9.58%
022.32	5	5	30.881	9.0076	30.881	9.0076	4.0283	29.17%	8.8983	1.9780	9.1155	28.82%	6.41%	29.52%	4.6084	2.2502	9.55%
022.33	3	3	34.522	1.3758	34.522	1.3758	0.79433	3.99%	0.44903	1.8391	1.8932	1.30%	5.33%	5.48%	1.0294	2.1587	9.39%
022.41	23	20	30.358	2.4889	30.230	2.6844	0.57232	8.88%	2.3159	1.2895	2.6507	7.63%	4.25%	8.73%	2.0556	1.7210	9.58%
022.42	18	17	32.679	3.4048	32.545	3.5656	0.86478	10.96%	3.2871	1.2551	3.5185	10.06%	3.84%	10.77%	2.8033	1.4602	9.47%
022.43	18	16	30.404	2.1342	30.648	2.6072	0.63234	8.51%	2.0743	0.71037	2.1926	6.82%	2.34%	7.21%	3.0865	0.94000	9.56%
022.44	1		33.150														
022.52	3	3	29.777	2.2785	29.777	2.2785	1.3155	7.65%	2.2492	0.51491	2.3074	7.55%	1.73%	7.75%	4.4812	0.70133	9.60%
022.53	2	0															
022.99	2	0															
024.03	1		11.500														
025.31	14	14	1,597.9	214.32	1,606.4	223.38	59.701	13.91%	213.23	30.466	215.40	13.34%	1.91%	13.48%	7.0702	31.893	5.27%
025.32	4	4	1,313.4	310.06	1,313.4	310.06	155.03	23.61%	296.81	126.84	322.78	22.60%	9.66%	24.58%	2.5447	138.49	5.43%
025.33	3	3	1,314.7	537.92	1,314.7	537.92	310.57	40.91%	534.37	87.245	541.44	40.64%	6.64%	41.18%	6.2060	101.27	5.43%
025.41	24	23	1,501.1	222.34	1,494.5	241.18	49.232	16.14%	220.69	38.215	223.98	14.70%	2.55%	14.92%	5.8609	38.962	5.32%
025.42	17	15	1,250.7	266.11	1,284.6	185.66	45.030	14.45%	260.31	78.144	271.79	20.81%	6.25%	21.73%	3.4781	88.732	5.45%
025.43	17	16	1,457.3	142.47	1,439.8	170.48	41.349	11.84%	140.30	34.977	144.60	9.63%	2.40%	9.92%	4.1341	36.919	5.35%
025.52	4	4	1,282.4	334.61	1,282.4	334.61	167.31	26.09%	333.81	32.779	335.41	26.03%	2.56%	26.16%	10.233	44.647	5.45%
025.53	1		1,810.0														

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
025.99	2	0															
027.31	19	17	0.40397	0.02305	0.40024	0.02403	0.00566	6.00%	0.02249	0.00715	0.02360	5.57%	1.77%	5.84%	3.2998	0.00904	4.59%
027.32	5	5	0.42120	0.00705	0.42120	0.00705	0.00315	1.67%	0.00266	0.00923	0.00961	0.63%	2.19%	2.28%	1.0408	0.01000	4.56%
027.33	3	3	0.37633	0.03480	0.37633	0.03480	0.02009	9.25%	0.03480	0.00058	0.03480	9.25%	0.15%	9.25%	60.281	0.00067	4.63%
027.41	26	24	0.41507	0.01480	0.41289	0.01414	0.00283	3.43%	0.01418	0.00596	0.01539	3.42%	1.44%	3.71%	2.5806	0.00534	4.57%
027.42	19	17	0.40937	0.01902	0.41145	0.01871	0.00441	4.55%	0.01638	0.01367	0.02134	4.00%	3.34%	5.21%	1.5611	0.01644	4.57%
027.43	18	18	0.41143	0.02589	0.41139	0.02929	0.00690	7.12%	0.02542	0.00701	0.02637	6.18%	1.70%	6.41%	3.7604	0.00663	4.57%
027.44	1		0.42550														
027.52	4	3	0.41198	0.01149	0.41198	0.01149	0.00663	2.79%	0.01071	0.00589	0.01222	2.60%	1.43%	2.97%	2.0749	0.00588	4.57%
027.53	2	0															
027.99	3	2	0.42000	0.02828	0.42000	0.02828	0.02000	6.73%	0.02828	0.00000	0.02828	6.73%	0.00%	6.73%		0.01333	4.56%
028.31	15	13	410.21	17.243	407.72	21.546	5.7583	5.28%	16.980	4.2457	17.503	4.14%	1.04%	4.27%	4.1225	7.3788	6.47%
028.32	4	4	435.67	33.837	435.67	33.837	16.918	7.77%	32.826	11.608	34.818	7.53%	2.66%	7.99%	2.9996	13.497	6.41%
028.33	2	0															
028.41	25	22	409.67	19.837	407.81	22.995	4.7948	5.64%	18.814	8.8937	20.810	4.59%	2.17%	5.08%	2.3399	9.5847	6.47%
028.42	20	19	425.37	33.630	424.19	32.581	7.2852	7.68%	32.317	13.164	34.895	7.60%	3.09%	8.20%	2.6507	15.258	6.44%
028.43	17	17	411.04	27.080	409.17	23.846	5.7836	5.83%	26.315	9.0392	27.824	6.40%	2.20%	6.77%	3.0782	9.4288	6.47%
028.44	1		445.00														
028.52	3	3	437.88	58.106	437.88	58.106	33.547	13.27%	57.259	13.980	58.941	13.08%	3.19%	13.46%	4.2160	18.083	6.40%
028.53	2	0															
028.99	2	0															
031.01	47	42	1.4969	0.08760	1.4893	0.06375	0.00940	4.28%	0.08557	0.02652	0.08959	5.72%	1.77%	5.99%	3.3781	0.03023	3.77%
031.02	4	4	1.5087	0.01023	1.5087	0.01023	0.00511	0.68%	0.00737	0.01002	0.01244	0.49%	0.66%	0.82%	1.2414	0.01050	3.76%
031.03	4	3	1.5091	0.03947	1.5091	0.03947	0.02279	2.62%	0.03887	0.00968	0.04006	2.58%	0.64%	2.65%	4.1379	0.10948	3.76%
031.06	1		1.3800														
031.41	29	29	1.5203	0.07378	1.5184	0.07384	0.01371	4.86%	0.06981	0.03375	0.07754	4.59%	2.22%	5.10%	2.2976	0.03484	3.76%
031.42	22	18	1.4730	0.07072	1.4823	0.08176	0.01784	5.52%	0.06530	0.03838	0.07575	4.43%	2.61%	5.14%	1.9733	0.06330	3.77%
031.43	21	19	1.4982	0.07807	1.4935	0.08476	0.01850	5.68%	0.07700	0.01820	0.07912	5.14%	1.22%	5.28%	4.3461	0.02201	3.77%
031.44	1		1.4900														
031.52	1		1.5287														
031.53	2	0															
031.99	6	6	1.4468	0.12176	1.4573	0.11279	0.04604	7.74%	0.11631	0.05092	0.12697	8.04%	3.52%	8.78%	2.4937	0.04550	3.78%
032.02	3	3	1.7438	0.09461	1.7438	0.09461	0.05462	5.43%	0.09295	0.02500	0.09625	5.33%	1.43%	5.52%	3.8505	0.02567	3.68%
032.31	21	18	1.7231	0.07701	1.7121	0.09073	0.02029	5.30%	0.07508	0.02422	0.07889	4.36%	1.41%	4.58%	3.2573	0.02957	3.69%
032.32	4	4	1.8025	0.10508	1.8025	0.10508	0.05254	5.83%	0.10089	0.04153	0.10911	5.60%	2.30%	6.05%	2.6270	0.05000	3.66%
032.41	26	24	1.7527	0.07735	1.7498	0.07107	0.01421	4.06%	0.07554	0.02352	0.07911	4.31%	1.34%	4.51%	3.3636	0.02489	3.68%
032.42	21	20	1.8124	0.10355	1.8156	0.10168	0.02219	5.60%	0.09450	0.05988	0.11187	5.21%	3.30%	6.17%	1.8683	0.06453	3.66%
032.43	20	17	1.7434	0.08084	1.7594	0.09436	0.02165	5.36%	0.07973	0.01890	0.08194	4.57%	1.08%	4.70%	4.3348	0.02309	3.67%
032.44	1		1.7800														
032.52	2	0															
032.53	2	0															
032.99	3	2	1.6000	0.22627	1.6000	0.22627	0.16000	14.14%	0.22627	0.00000	0.22627	14.14%	0.00%	14.14%		0.00333	3.73%
033.00	18	15	3.8408	0.07858	3.8292	0.09160	0.02222	2.39%	0.07714	0.02113	0.07999	2.01%	0.55%	2.08%	3.7857	0.03134	3.27%

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
033.01	29	25	3.8620	0.13756	3.8471	0.12726	0.02405	3.31%	0.13457	0.04034	0.14049	3.48%	1.04%	3.64%	3.4825	0.04848	3.27%
033.03	5	5	4.3990	1.0736	4.3990	1.0736	0.48014	24.41%	1.0713	0.09985	1.0759	24.35%	2.27%	24.46%	10.776	0.10600	3.20%
033.05	4	3	3.8817	0.10004	3.8817	0.10004	0.05776	2.58%	0.09866	0.02345	0.10141	2.54%	0.60%	2.61%	4.3240	0.09500	3.26%
033.99	9	9	3.6466	0.26488	3.6466	0.30038	0.10013	8.24%	0.25531	0.09979	0.27412	7.00%	2.74%	7.52%	2.7471	0.13307	3.29%
034.01	1		8.8200														
034.04	6	6	10.188	1.8653	10.242	1.9883	0.81170	19.41%	1.8314	0.50009	1.8985	17.98%	4.91%	18.63%	3.7963	0.56867	11.27%
034.41	1		10.950														
034.42	1		9.3000														
034.43	1		9.0200														
034.52	5	4	10.012	0.58321	10.012	0.58321	0.29160	5.83%	0.56830	0.18529	0.59774	5.68%	1.85%	5.97%	3.2260	0.45160	11.31%
034.53	7	6	10.821	0.74794	11.114	1.1707	0.44249	10.53%	0.70884	0.33749	0.78509	6.55%	3.12%	7.25%	2.3263	0.51106	11.13%
034.99	2	0															
035.01	5	4	1.4196	0.03652	1.4196	0.03652	0.01826	2.57%	0.03575	0.01052	0.03727	2.52%	0.74%	2.63%	3.5433	0.04540	3.79%
035.05	5	4	1.4625	0.05679	1.4625	0.05679	0.02839	3.88%	0.05408	0.02449	0.05937	3.70%	1.67%	4.06%	2.4238	0.06200	3.78%
035.31	19	17	1.3564	0.10683	1.3587	0.09745	0.02236	7.17%	0.10474	0.02974	0.10888	7.72%	2.19%	8.03%	3.6615	0.03554	3.82%
035.32	3	3	1.4617	0.14835	1.4617	0.14835	0.08565	10.15%	0.14799	0.01472	0.14872	10.12%	1.01%	10.17%	10.103	0.01667	3.78%
035.41	28	27	1.3666	0.06313	1.3671	0.06083	0.01171	4.45%	0.05955	0.02960	0.06651	4.36%	2.17%	4.87%	2.2465	0.03187	3.82%
035.42	17	15	1.3894	0.09377	1.3784	0.09959	0.02416	7.23%	0.08939	0.04004	0.09795	6.43%	2.88%	7.05%	2.4461	0.05005	3.81%
035.43	14	14	1.3474	0.07876	1.3486	0.08674	0.02318	6.43%	0.07543	0.03205	0.08196	5.60%	2.38%	6.08%	2.5573	0.03191	3.82%
035.52	3	3	1.4181	0.05205	1.4181	0.05205	0.03005	3.67%	0.04706	0.03145	0.05661	3.32%	2.22%	3.99%	1.7996	0.04393	3.79%
035.53	2	0															
035.99	4	4	1.3638	0.07353	1.3638	0.07353	0.03676	5.39%	0.04228	0.08507	0.09500	3.10%	6.24%	6.97%	1.1167	0.07750	3.82%
036.04	4	4	0.59481	0.03053	0.59481	0.03053	0.01526	5.13%	0.01118	0.04017	0.04170	1.88%	6.75%	7.01%	1.0380	0.05043	4.32%
036.42	20	18	0.60692	0.03427	0.60395	0.04052	0.00930	6.71%	0.03401	0.00599	0.03453	5.60%	0.99%	5.69%	5.7618	0.00820	4.32%
036.43	10	9	0.61481	0.06243	0.62408	0.06438	0.02036	10.32%	0.06214	0.00854	0.06272	10.11%	1.39%	10.20%	7.3410	0.01114	4.29%
036.99	2	0															
037.31	18	16	1,591.9	75.498	1,605.8	92.289	21.753	5.75%	74.163	19.993	76.810	4.66%	1.26%	4.83%	3.8419	23.471	5.27%
037.32	6	5	1,699.5	95.130	1,647.1	174.55	71.258	10.60%	80.433	71.835	107.84	4.73%	4.23%	6.35%	1.5012	59.604	5.25%
037.33	3	3	1,628.0	63.635	1,628.0	63.635	36.740	3.91%	61.559	22.799	65.646	3.78%	1.40%	4.03%	2.8793	31.702	5.26%
037.41	25	23	1,612.1	110.79	1,608.4	103.05	21.036	6.41%	108.87	29.031	112.68	6.75%	1.80%	6.99%	3.8813	34.917	5.27%
037.42	19	18	1,620.4	76.398	1,629.6	86.488	19.842	5.31%	66.628	52.866	85.054	4.11%	3.26%	5.25%	1.6088	56.695	5.26%
037.43	19	19	1,617.9	91.113	1,614.8	95.934	22.009	5.94%	89.159	26.541	93.026	5.51%	1.64%	5.75%	3.5049	31.532	5.26%
037.44	1		1,685.0														
037.52	3	3	1,506.2	207.13	1,506.2	207.13	119.58	13.75%	203.33	55.785	210.85	13.50%	3.70%	14.00%	3.7797	69.828	5.32%
037.53	2	0															
037.99	3	3	1,582.2	253.47	1,582.2	253.47	146.34	16.02%	251.99	38.646	254.94	15.93%	2.44%	16.11%	6.5968	46.333	5.28%
038.41	3	3	9.3476	0.91640	9.3476	0.91640	0.52908	9.80%	0.86351	0.43391	0.96640	9.24%	4.64%	10.34%	2.2272	0.45617	11.43%
038.42	2	0															
038.43	5	5	9.8203	0.80946	9.8203	0.80946	0.36200	8.24%	0.79448	0.21922	0.82417	8.09%	2.23%	8.39%	3.7595	0.26220	11.34%
038.52	2	0															
038.53	4	4	9.0207	2.5349	9.0207	2.5349	1.2674	28.10%	2.3747	1.2540	2.6855	26.33%	13.90%	29.77%	2.1416	1.4765	11.49%
040.42	1		26.960														
040.52	2	0															

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
040.53	1		24.747														
041.52	1		6.5800														
041.53	2	0															
042.00	2	0															
042.01	1		2.4150														
042.99	1		2.2300														
051.00	1		5.0166														
051.03	4	2	3.7800	0.87681	3.7800	0.87681	0.62000	23.20%	0.86487	0.20396	0.88859	22.88%	5.40%	23.51%	4.3567	1.5233	13.10%
051.99	1		0.86500														
057.01	1		1.1205														
061.02	3	3	4.5587	0.52156	4.5587	0.52156	0.30112	11.44%	0.45996	0.34773	0.57661	10.09%	7.63%	12.65%	1.6582	0.38400	12.73%
061.03	2	0															
065.03	8	7	9.1014	1.8489	8.8042	1.3710	0.48474	15.57%	1.8457	0.15306	1.8521	20.28%	1.68%	20.35%	12.100	0.24875	11.53%
065.04	1		8.8500														
065.99	1		8.4500														
073.03	2																
079.01	1		0.00000														
101.00	1		382.17														
101.01	1		785.50														
101.02	1		1,405.0														
102.01	1		110.00														
103.01	1		14.450														
104.00	1		11.650														
104.03	4	4	9.2838	0.61511	9.2838	0.61511	0.30755	6.63%	0.33838	0.72644	0.80138	3.64%	7.82%	8.63%	1.1032	0.96750	11.44%
105.00	3	3	3.0650	1.6460	3.0650	1.6460	0.95035	53.70%	1.6349	0.27090	1.6572	53.34%	8.84%	54.07%	6.1171	0.26800	13.52%
105.01	1		9.4100														
106.00	2	0															
106.01	1		83.350														
106.02	22	20	79.160	12.189	80.382	13.946	2.9733	17.35%	11.585	5.3585	12.764	14.64%	6.77%	16.12%	2.3821	5.9793	
107.00	1		90.000														
108.01	2	0															
108.02	5	5	11.087	6.2007	11.087	6.2007	2.7730	55.93%	6.1795	0.72379	6.2218	55.74%	6.53%	56.12%	8.5961	0.80200	
108.99	1		13.050														
109.02	22	20	2,294.9	243.46	2,272.1	257.67	54.934	11.34%	238.10	71.884	248.71	10.37%	3.13%	10.84%	3.4599	79.473	
109.99	1		2,450.0														
112.01	1		4.4550														
113.01	1		1.7050														
114.01	1		0.64150														
120.00	17	16	0.74905	0.02242	0.74493	0.02101	0.00510	2.82%	0.02048	0.01290	0.02421	2.73%	1.72%	3.23%	1.8759	0.01257	4.18%
120.01	1		0.66500														
120.02	1		0.77600														
120.05	2	0															
120.99	1		0.77500														

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
121.00	17	15	0.99795	0.02988	0.99446	0.03381	0.00820	3.40%	0.02777	0.01561	0.03185	2.78%	1.56%	3.19%	2.0411	0.01854	4.00%
121.01	1		0.98900														
121.02	1		0.98600														
121.05	2	0															
121.99	1		1.0950														
122.00	17	15	1.6544	0.04396	1.6490	0.05404	0.01351	3.28%	0.04159	0.02014	0.04621	2.51%	1.22%	2.79%	2.2944	0.02056	3.71%
122.01	1		1.5680														
122.02	1		1.6820														
122.05	2	0															
122.99	1		1.2200														
124.00	18	17	0.25371	0.02780	0.25836	0.02839	0.00669	10.99%	0.02743	0.00638	0.02817	10.81%	2.52%	11.10%	4.4134	0.00807	4.90%
124.01	1		0.23450														
124.02	1		0.29300														
124.05	2	0															
124.99	1		0.22500														
125.00	17	15	2.5548	0.07348	2.5415	0.07541	0.01885	2.97%	0.07143	0.02433	0.07546	2.80%	0.95%	2.95%	3.1015	0.02757	3.48%
125.01	1		2.5981														
125.02	1		2.5585														
125.05	2	0															
125.99	1		2.5850														
126.00	17	15	0.78369	0.02139	0.78229	0.02573	0.00624	3.29%	0.02047	0.00878	0.02227	2.61%	1.12%	2.84%	2.5374	0.01118	4.15%
126.01	1		0.69050														
126.02	1		0.80550														
126.05	2	0															
126.99	1		0.86500														
127.00	17	16	0.39607	0.02777	0.39607	0.02460	0.00597	6.21%	0.02735	0.00678	0.02818	6.91%	1.71%	7.11%	4.1560	0.00736	4.60%
127.01	1		0.34350														
127.02	1		0.38550														
127.05	2	0															
127.99	1		0.42500														
128.00	17	15	0.62019	0.02802	0.62403	0.02273	0.00587	3.64%	0.02748	0.00768	0.02854	4.43%	1.24%	4.60%	3.7168	0.00869	4.29%
128.01	1		0.60850														
128.02	1		0.63550														
128.05	2	0															
128.99	1		0.63000														
129.00	17	16	1.1031	0.02505	1.1055	0.02290	0.00572	2.07%	0.02280	0.01468	0.02711	2.07%	1.33%	2.46%	1.8472	0.01638	3.94%
129.01	1		1.0870														
129.02	1		1.1220														
129.05	2	0															
129.99	1		1.2100														
130.00	18	17	0.85744	0.04289	0.85110	0.04669	0.01100	5.49%	0.04240	0.00907	0.04336	4.95%	1.06%	5.06%	4.7804	0.00888	4.10%
130.01	1		0.78250														
130.02	1		0.84450														

Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
130.05	3	2	0.87125	0.00106	0.87125	0.00106	0.00075	0.12%	0.00100	0.00050	0.00112	0.11%	0.06%	0.13%	2.2361	0.00833	4.08%
130.99	1		0.87500														
131.00	18	16	0.38248	0.02788	0.37905	0.03161	0.00745	8.34%	0.02722	0.00852	0.02852	7.12%	2.23%	7.46%	3.3466	0.01144	4.63%
131.01	1		0.36550														
131.02	1		0.35050														
131.05	2	0															
131.99	1		0.33500														
132.00	17	15	0.73348	0.01713	0.73132	0.01512	0.00367	2.07%	0.01538	0.01068	0.01873	2.10%	1.46%	2.55%	1.7527	0.01312	4.19%
132.01	1		0.69050														
132.02	1		0.73000														
132.05	2	0															
132.99	1		0.77000														
133.00	17	13	0.95637	0.06076	0.94056	0.02847	0.00712	3.03%	0.06061	0.00619	0.06092	6.34%	0.65%	6.37%	9.8451	0.01224	4.04%
133.05	2	0															
133.99	1		1.0800														
134.00	17	15	0.76444	0.01846	0.75893	0.02205	0.00535	2.91%	0.01647	0.01178	0.02025	2.15%	1.54%	2.65%	1.7190	0.01435	4.17%
134.01	1		0.73150														
134.02	1		0.71800														
134.05	2	0															
134.99	1		0.81500														
135.00	17	15	0.61509	0.01740	0.61468	0.01755	0.00439	2.86%	0.01629	0.00866	0.01845	2.65%	1.41%	3.00%	2.1296	0.01106	4.30%
135.01	1		0.55050														
135.02	1		0.60150														
135.05	2	0															
135.99	1		0.60500														
136.00	4	4	0.24485	0.03636	0.24485	0.03636	0.01818	14.85%	0.03560	0.01049	0.03711	14.54%	4.28%	15.16%	3.5389	0.01165	4.94%
136.01	3	3	0.22600	0.01802	0.22600	0.01802	0.01040	7.97%	0.01801	0.00100	0.01803	7.97%	0.44%	7.98%	18.035	0.00133	5.00%
136.02	1		0.22200														
136.03	4	4	0.23100	0.00535	0.23100	0.00535	0.00268	2.32%	0.00507	0.00245	0.00563	2.19%	1.06%	2.44%	2.2973	0.00300	4.99%
136.99	2	0															
137.00	12	10	0.49198	0.03765	0.48462	0.04906	0.01479	10.12%	0.03689	0.01068	0.03840	7.50%	2.17%	7.81%	3.5949	0.01086	4.46%
137.01	1		0.46000														
137.02	1		0.51450														
137.05	2	0															
137.99	1		0.58500														
138.00	17	15	0.75916	0.02957	0.75867	0.02887	0.00722	3.81%	0.02922	0.00646	0.02992	3.85%	0.85%	3.94%	4.6292	0.00713	4.17%
138.01	1		0.79350														
138.02	1		0.79300														
138.05	2	0															
138.99	1		0.77500														
139.00	2	0															
139.02	1		0.00000														
139.99	1		0.00000														



Method Code	Total # Labs Submitting	# Labs in Method Precision Calcs	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
160.99	8	7	0.53946	0.22596	0.53946	0.25624	0.09685	47.50%	0.22403	0.04165	0.22787	41.53%	7.72%	42.24%	5.4711	0.04364	4.39%
161.99	2																
162.99	7	4	0.15750	0.07240	0.15750	0.07240	0.03238	45.97%	0.07149	0.01622	0.07330	45.39%	10.30%	46.54%	4.5200	0.01440	5.28%
163.99	4																
164.99	3																
165.99	9	8	2.6414	0.24365	2.5785	0.33560	0.11187	13.02%	0.23369	0.09753	0.25322	8.85%	3.69%	9.59%	2.5965	0.08200	3.47%
166.99	4	4	0.62725	0.15598	0.62725	0.15598	0.07799	24.87%	0.15553	0.01670	0.15643	24.80%	2.66%	24.94%	9.3651	0.02000	4.29%
167.99	3	3	0.73417	0.13426	0.73417	0.13426	0.07751	18.29%	0.13283	0.02768	0.13568	18.09%	3.77%	18.48%	4.9017	0.03233	4.19%
361.03	1		4,395.0														
361.04	5	4	4,086.3	1,466.0	4,086.3	1,466.0	732.99	35.88%	1,464.7	85.513	1,467.2	35.85%	2.09%	35.91%	17.158	296.00	12.94%
364.02	1		15,000														
365.04	1		8,730.0														
365.05	5	5	7,282.0	2,411.4	7,282.0	2,411.4	1,078.4	33.11%	2,404.3	261.57	2,418.5	33.02%	3.59%	33.21%	9.2459	276.00	11.86%
400.01	4	4	0.45901	0.04121	0.45901	0.04121	0.02061	8.98%	0.04118	0.00227	0.04125	8.97%	0.49%	8.99%	18.164	0.00268	
400.99	3	3	0.46733	0.01815	0.46733	0.01815	0.01048	3.88%	0.01636	0.01111	0.01977	3.50%	2.38%	4.23%	1.7805	0.01133	
516.00	1		0.67000														
516.52	3	3	0.70883	0.03498	0.70883	0.03498	0.02020	4.93%	0.01906	0.04148	0.04565	2.69%	5.85%	6.44%	1.1005	0.03967	16.85%
516.53	5	4	0.77291	0.06234	0.77291	0.06234	0.03117	8.07%	0.03648	0.07148	0.08026	4.72%	9.25%	10.38%	1.1227	0.13410	16.63%
516.99	1		0.72900														
518.31	1		0.24250														
518.41	3	3	0.23958	0.02272	0.23958	0.02272	0.01312	9.48%	0.02233	0.00593	0.02311	9.32%	2.48%	9.65%	3.8945	0.00717	19.83%
518.52	3	3	0.26650	0.04461	0.26650	0.04461	0.02575	16.74%	0.04365	0.01297	0.04554	16.38%	4.87%	17.09%	3.5117	0.01433	19.52%
518.53	5	4	0.29375	0.01926	0.29375	0.01926	0.00963	6.56%	0.01898	0.00458	0.01953	6.46%	1.56%	6.65%	4.2618	0.01024	19.24%
520.31	2	0															
520.41	3	2	8.3268	0.03783	8.3268	0.03783	0.02675	0.45%		0.21382			2.57%		0.24267	11.63%	
520.43	1		12.820														
520.52	2	0															
520.53	3	3	12.620	1.6538	12.620	1.6538	0.95481	13.10%	1.6433	0.26276	1.6642	13.02%	2.08%	13.19%	6.3335	0.30257	10.92%
526.41	3	3	0.89342	0.22312	0.89342	0.22312	0.12882	24.97%	0.20407	0.12758	0.24066	22.84%	14.28%	26.94%	1.8864	0.15050	16.27%
526.52	3	3	1.5292	0.28045	1.5292	0.28045	0.16192	18.34%	0.27845	0.04730	0.28244	18.21%	3.09%	18.47%	5.9709	0.06167	15.01%
526.53	5	5	1.7044	0.16078	1.7044	0.16078	0.07190	9.43%	0.14215	0.10625	0.17747	8.34%	6.23%	10.41%	1.6703	0.11486	14.76%
539.41	2	0															
539.52	2	0															
539.53	2	0															