

AAFCO Check Sample Program

All Methods Report

Sort by Method

Proficiency For Individual Methods

Sample # 201321

Dry Dog Food



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)	% RSD	Between Labs sL	Within Labs sI	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
000.99	1		0.0000														
001.00	9	7	6.9321	0.74267	7.0512	0.55454	0.14821	7.86%	0.38254	0.07708	0.39022	5.33%	1.07%	5.44%	5.0624	0.07286	2.98%
001.03	20	20	7.1750	0.16572	7.1874	0.09793	0.01548	1.36%	0.13053	0.01476	0.13136	1.81%	0.21%	1.82%	8.8969	0.01760	2.97%
001.05	1		7.0350														
001.07	42	41	7.0101	0.38104	7.0521	0.24446	0.02700	3.47%	0.26423	0.09359	0.28032	3.74%	1.33%	3.97%	2.9950	0.10195	2.98%
001.08	3	3	7.0550	0.06144	7.0550	0.06144	0.02508	0.87%	0.05538	0.03764	0.06696	0.78%	0.53%	0.95%	1.7790	0.03667	2.98%
001.99	22	20	6.9334	0.58543	7.0529	0.41479	0.06558	5.88%	0.46091	0.08703	0.46905	6.56%	1.24%	6.68%	5.3894	0.10041	2.98%
002.00	7	7	18.696	0.63830	18.813	0.43439	0.11610	2.31%	0.29457	0.09309	0.30893	1.56%	0.49%	1.63%	3.3185	0.12571	2.57%
002.01	13	13	18.824	0.26648	18.816	0.28452	0.05580	1.51%	0.25717	0.09876	0.27548	1.37%	0.52%	1.46%	2.7894	0.10047	2.57%
002.02	7	6	18.823	0.49275	18.944	0.26998	0.07794	1.43%	0.19189	0.01764	0.19270	1.01%	0.09%	1.01%	10.927	0.02553	2.57%
002.03	1		18.255														
002.04	6	5	18.746	0.45945	18.746	0.45945	0.14529	2.45%	0.45590	0.08062	0.46297	2.43%	0.43%	2.47%	5.7425	0.09600	2.57%
002.05	46	45	18.889	0.29826	18.878	0.26022	0.02743	1.38%	0.24379	0.07702	0.25566	1.29%	0.41%	1.35%	3.3193	0.07982	2.57%
002.06	239	152	19.061	0.37595	19.071	0.28820	0.01653	1.51%	0.28093	0.11672	0.30421	1.47%	0.61%	1.59%	2.6062	0.13726	2.57%
002.07	1		19.010														
002.08	3	3	19.506	0.91425	19.506	0.91425	0.37324	4.69%	0.90676	0.16513	0.92167	4.65%	0.85%	4.73%	5.5814	0.15457	2.56%
002.10	2	2	18.733	0.56957													
002.11	6	6	19.306	1.0431	19.306	1.1828	0.34145	6.13%	1.0384	0.13886	1.0477	5.38%	0.72%	5.43%	7.5448	0.16800	2.56%
002.99	5	5	18.945	0.48789	18.945	0.48789	0.15428	2.58%	0.39077	0.09500	0.40216	2.08%	0.51%	2.14%	4.2332	0.23800	2.57%
003.00	12	11	7.4779	1.7388	6.6171	0.33577	0.07159	5.07%	1.7300	0.24765	1.7476	23.13%	3.31%	23.37%	7.0567	0.22345	3.01%
003.01	3	3	7.2178	1.4669	7.2178	1.4669	0.59885	20.32%	1.4655	0.08967	1.4683	20.30%	1.24%	20.34%	16.373	0.10073	2.97%
003.06	18	18	6.3528	1.0423	6.3638	0.20918	0.03486	3.29%	0.19975	0.06186	0.20911	3.16%	0.98%	3.30%	3.3803	0.07667	3.03%
003.07	1		7.0650														
003.09	21	19	6.5252	0.58347	6.3985	0.14571	0.02364	2.28%	0.22392	0.05798	0.23131	3.51%	0.91%	3.62%	3.9895	0.07493	3.02%
003.10	32	29	6.2668	0.19227	6.2896	0.14416	0.01893	2.29%	0.12985	0.04692	0.13806	2.06%	0.75%	2.19%	2.9428	0.05780	3.03%
003.11	5	5	9.6550	1.3444	9.6550	1.3444	0.42515	13.92%	1.3443	0.02550	1.3446	13.92%	0.26%	13.93%	52.738	0.03000	2.84%
003.12	14	13	6.4431	0.16209	6.4021	0.10590	0.02077	1.65%	0.15948	0.04095	0.16466	2.48%	0.64%	2.56%	4.0209	0.04462	3.02%

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003.13	6	6	6.4245	0.19968	6.3953	0.13641	0.03938	2.13%	0.19269	0.07406	0.20643	3.00%	1.15%	3.21%	2.7872	0.10133	3.03%
003.14	30	29	6.2357	0.53877	6.3622	0.17965	0.02359	2.82%	0.32924	0.07985	0.33879	5.22%	1.27%	5.37%	4.2428	0.10492	3.03%
003.99	9	8	7.5963	2.1344	7.7244	2.1194	0.52984	27.44%	2.2955	0.06655	2.2965	29.95%	0.87%	29.96%	34.509	0.09250	2.94%
004.00	29	27	3.0329	0.34063	2.9869	0.20751	0.02824	6.95%	0.34071	0.08430	0.35099	11.21%	2.77%	11.55%	4.1633	0.10183	3.39%
004.01	2	2	3.3225	0.25102													
004.03	4	4	3.3325	0.86182	3.3325	0.86182	0.30470	25.86%	0.84937	0.20646	0.87410	25.49%	6.20%	26.23%	4.2338	0.25000	3.34%
004.06	45	43	3.2984	0.60309	3.2541	0.43344	0.04674	13.32%	0.44379	0.04982	0.44658	13.83%	1.55%	13.92%	8.9647	0.06515	3.35%
004.07	60	58	3.0553	0.42452	3.0327	0.38301	0.03556	12.63%	0.39074	0.10305	0.40410	12.89%	3.40%	13.33%	3.9215	0.13111	3.38%
004.11	3	3	3.7790	0.61882	3.7790	0.61882	0.25263	16.38%	0.61572	0.08744	0.62190	16.29%	2.31%	16.46%	7.1122	0.09533	3.27%
004.99	3	3	2.8433	0.32960	2.8433	0.32960	0.13456	11.59%	0.31246	0.14832	0.34588	10.99%	5.22%	12.16%	2.3319	0.18667	3.42%
005.00	194	116	7.2600	0.11657	7.2601	0.09347	0.00614	1.29%	0.08773	0.04520	0.09869	1.21%	0.62%	1.36%	2.1834	0.05027	2.97%
005.02	1		7.4000														
005.03	1		7.1000														
005.05	30	29	7.3857	0.18038	7.3911	0.07204	0.00946	0.97%	0.06469	0.03133	0.07188	0.88%	0.42%	0.97%	2.2940	0.04102	2.96%
005.11	3	3	5.5995	1.9893	5.5995	1.9893	0.81214	35.53%	1.9876	0.11625	1.9910	35.50%	2.08%	35.56%	17.127	0.13567	3.09%
005.99	19	19	7.3053	0.20732	7.3508	0.07167	0.01163	0.97%	0.06332	0.04967	0.08048	0.86%	0.68%	1.10%	1.6201	0.06031	2.96%
006.01	1		4.3500														
006.03	1		5.1500														
006.99	2	2	4.2350	0.46669													
008.02	13	13	5.8423	2.1107	5.3793	0.78782	0.15450	14.65%	0.61059	0.17984	0.63652	11.56%	3.41%	12.05%	3.5394	0.23077	3.10%
008.05	1		5.8000														
008.08	32	31	5.0106	0.92601	5.0405	0.82316	0.10454	16.33%	0.80609	0.22376	0.83657	15.83%	4.39%	16.43%	3.7386	0.24258	3.14%
008.99	4	4	8.8675	6.7788	8.8675	6.7788	2.3967	76.45%	6.7787	0.05268	6.7789	76.44%	0.59%	76.45%	128.69	0.05000	2.88%
009.04	1		14.070														
009.07	11	10	11.380	1.2043	11.546	0.94777	0.21193	8.21%	0.73565	0.16496	0.75392	6.29%	1.41%	6.45%	4.5704	0.19700	2.77%
009.09	27	25	10.743	1.5554	10.559	1.3502	0.19095	12.79%	1.3215	0.26984	1.3488	12.50%	2.55%	12.76%	4.9985	0.29800	2.81%
009.99	4	4	18.370	10.933	18.370	10.933	3.8653	59.51%	10.920	0.75758	10.946	59.44%	4.12%	59.58%	14.448	0.81000	2.58%
010.03	7	7	6.5829	1.1528	6.9983	0.48393	0.12934	6.91%	1.1402	0.24042	1.1652	17.32%	3.65%	17.70%	4.8468	0.27143	2.98%
010.11	5	5	7.3728	0.55789	7.3728	0.55789	0.17642	7.57%	0.55569	0.07012	0.56009	7.54%	0.95%	7.60%	7.9880	0.07640	2.96%
010.99	22	21	6.9420	0.60013	7.0236	0.43539	0.06718	6.20%	0.40283	0.09060	0.41289	5.72%	1.29%	5.86%	4.5574	0.08265	2.98%
011.01	172	90	7.6609	0.25877	7.6752	0.21982	0.01638	2.86%	0.20984	0.08980	0.22825	2.73%	1.17%	2.97%	2.5419	0.10916	2.94%
011.02	4	3	7.3483	0.31860	7.3483	0.31860	0.13007	4.34%	0.14370	0.02693	0.14620	1.91%	0.36%	1.94%	5.4298	0.15667	2.96%
011.99	3	3	7.3817	0.09878	7.3817	0.09878	0.04033	1.34%	0.04143	0.12682	0.13342	0.56%	1.72%	1.81%	1.0520	0.14333	2.96%
012.00	10	9	40.605	3.0715	41.529	0.89391	0.21070	2.15%	0.97930	0.12209	0.98688	2.36%	0.29%	2.37%	8.0832	0.13000	2.28%
012.01	5	5	40.375	3.3368	40.375	3.3368	1.0552	8.26%	1.2414	0.49088	1.3350	3.19%	1.26%	3.43%	2.7196	1.8300	2.29%
012.03	3	3	42.273	4.3932	42.273	4.3932	1.7935	10.39%	4.3574	0.79154	4.4288	10.31%	1.87%	10.48%	5.5951	1.0667	2.28%
012.04	6	6	40.798	2.8477	40.199	1.9166	0.55328	4.77%	2.8143	0.61499	2.8807	6.90%	1.51%	7.06%	4.6841	0.66833	2.29%
012.11	3	3	38.711	1.1912	38.711	1.1912	0.48629	3.08%	1.5237	0.02693	1.5239	3.97%	0.07%	3.97%	56.597	0.19267	2.31%

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013.00	33	29	9.5326	0.47842	9.5116	0.37033	0.04863	3.89%	0.35800	0.12281	0.37848	3.76%	1.29%	3.97%	3.0817	0.12655	2.85%
013.02	116	41	9.8502	0.30790	9.8558	0.28608	0.03159	2.90%	0.26893	0.13504	0.30093	2.72%	1.37%	3.05%	2.2285	0.14469	2.83%
013.08	1		6.7750														
013.10	15	15	9.3006	0.45529	9.3190	0.28756	0.05250	3.09%	0.43163	0.20487	0.47778	4.64%	2.20%	5.14%	2.3321	0.20780	2.86%
013.12	2	2	9.4913	0.33694													
013.13	7	7	9.7050	0.66519	9.7050	0.75433	0.20160	7.77%	0.65690	0.14811	0.67339	6.77%	1.53%	6.94%	4.5466	0.17286	2.84%
014.99	1		13.550														
015.41	3	3	85.773	21.928	85.773	21.928	8.9520	25.57%	21.794	3.4237	22.061	25.41%	3.99%	25.72%	6.4437	3.8868	8.19%
015.42	1		106.50														
015.43	3	3	128.42	21.781	128.42	21.781	8.8919	16.96%	21.501	4.9243	22.057	16.74%	3.83%	17.18%	4.4793	6.9000	7.70%
015.52	1		129.37														
015.53	1		77.500														
017.41	2	2	5.7250	0.09899													
017.42	3	3	6.4367	1.4174	6.4367	1.4174	0.57864	22.02%	1.4079	0.23159	1.4268	21.87%	3.60%	22.17%	6.1609	0.32000	12.09%
017.43	2	2	6.8700	1.2304													
019.00	26	25	1.2725	0.29905	1.3397	0.08921	0.01262	6.66%	0.13616	0.02339	0.13816	10.34%	1.78%	10.50%	5.9068	0.02589	3.83%
019.03	4	4	1.3993	0.05188	1.3993	0.05188	0.01834	3.71%	0.04388	0.03915	0.05881	3.14%	2.80%	4.20%	1.5020	0.04243	3.80%
019.08	9	9	1.3628	0.09435	1.3503	0.06372	0.01502	4.72%	0.05561	0.01919	0.05883	4.16%	1.43%	4.40%	3.0662	0.02149	3.82%
019.31	30	29	1.3490	0.09681	1.3447	0.07776	0.01021	5.78%	0.07438	0.03233	0.08110	5.54%	2.41%	6.05%	2.5085	0.03647	3.83%
019.32	8	7	1.3644	0.04385	1.3746	0.02818	0.00753	2.05%	0.02515	0.00488	0.02562	1.82%	0.35%	1.86%	5.2547	0.01897	3.81%
019.33	2	2	1.3825	0.01768													
019.34	1		1.3900														
019.41	37	36	1.3553	0.07063	1.3540	0.06427	0.00757	4.75%	0.06179	0.02529	0.06676	4.57%	1.87%	4.94%	2.6403	0.02858	3.82%
019.42	20	20	1.4015	0.08401	1.3964	0.06849	0.01083	4.90%	0.06633	0.02272	0.07012	4.77%	1.63%	5.04%	3.0859	0.02434	3.80%
019.43	11	11	1.3937	0.07980	1.3919	0.07116	0.01517	5.11%	0.07806	0.02347	0.08151	5.60%	1.68%	5.85%	3.4725	0.02645	3.81%
019.44	2	2	1.3125	0.03182													
019.52	1		1.2857														
019.53	2	2	1.2275	0.15910													
019.99	2	2	1.5003	0.42391													
021.31	5	5	1.9390	0.70301	1.9390	0.70301	0.22231	36.26%	0.69856	0.11176	0.70744	36.03%	5.76%	36.48%	6.3301	0.13400	14.48%
021.34	1		0.85500														
021.41	4	4	1.0997	0.20592	1.0997	0.20592	0.07281	18.73%	0.24815	0.01275	0.24847	22.94%	1.18%	22.97%	19.482	0.04063	15.77%
021.42	2	2	0.91625	0.19552													
021.43	5	5	1.3733	0.17131	1.3733	0.17131	0.05417	12.47%	0.16525	0.06387	0.17716	12.03%	4.65%	12.90%	2.7739	0.07060	15.25%
021.52	2	2	1.1480	0.00283													
021.53	2	2	0.58825	0.16935													
022.31	21	20	12.353	2.2217	12.741	1.2586	0.19901	9.88%	1.0737	0.48369	1.1776	8.34%	3.76%	9.14%	2.4347	0.57440	10.91%
022.32	5	5	9.7800	3.1018	9.7800	3.1018	0.98088	31.72%	2.9677	1.2761	3.2304	30.34%	13.05%	33.03%	2.5315	1.2760	11.35%

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022.33	2	2	56.348	56.784													
022.35	1		14.500														
022.41	29	28	12.949	1.5413	12.780	1.2767	0.17061	9.99%	1.2166	0.56694	1.3422	9.52%	4.44%	10.50%	2.3675	0.62082	10.90%
022.42	17	17	14.295	2.2202	14.017	1.3694	0.23485	9.77%	2.2083	0.32443	2.2320	15.45%	2.27%	15.61%	6.8798	0.32353	10.75%
022.43	15	15	14.035	4.2480	13.903	1.7425	0.31813	12.53%	2.7558	1.8004	3.2917	18.58%	12.14%	22.20%	1.8284	1.4455	10.76%
022.44	2	2	13.775	1.8031													
022.52	1		11.996														
022.53	2	2	12.550	1.1314													
025.31	20	20	230.72	27.330	231.52	25.644	4.0546	11.08%	27.705	6.2922	28.411	12.02%	2.73%	12.33%	4.5152	7.6490	7.05%
025.32	6	6	278.76	105.53	246.64	36.464	10.526	14.78%	21.746	9.6162	23.777	9.20%	4.07%	10.05%	2.4727	9.9450	6.98%
025.33	1		188.67														
025.34	1		192.50														
025.41	31	31	239.58	19.149	238.64	18.649	2.3685	7.81%	16.194	6.7651	17.550	6.81%	2.84%	7.38%	2.5943	6.8426	7.02%
025.42	14	13	249.55	20.967	248.66	21.973	4.3093	8.84%	20.005	3.9590	20.393	8.09%	1.60%	8.25%	5.1510	6.5331	6.97%
025.43	14	13	249.41	27.484	254.55	21.249	4.1672	8.35%	26.666	4.3688	27.021	10.58%	1.73%	10.72%	6.1851	6.0123	6.95%
025.52	1		222.40														
025.53	1		190.00														
027.31	19	18	0.24085	0.05207	0.25372	0.01457	0.00243	5.74%	0.01610	0.00804	0.01800	6.33%	3.16%	7.08%	2.2382	0.00941	4.92%
027.32	6	5	0.26235	0.01000	0.26235	0.01000	0.00316	3.81%	0.00947	0.00453	0.01050	3.61%	1.73%	4.00%	2.3188	0.00446	4.89%
027.33	1		0.27500														
027.41	28	27	0.27661	0.03555	0.27111	0.01838	0.00250	6.78%	0.01576	0.00611	0.01690	5.84%	2.26%	6.27%	2.7669	0.00710	4.87%
027.42	15	15	0.27431	0.01301	0.27348	0.01268	0.00231	4.64%	0.00907	0.00672	0.01128	3.33%	2.47%	4.15%	1.6803	0.00713	4.86%
027.43	10	10	0.27085	0.02354	0.26811	0.02113	0.00473	7.88%	0.02297	0.00727	0.02409	8.48%	2.68%	8.90%	3.3143	0.00770	4.88%
027.44	1		0.24800														
027.52	1		0.21695														
027.53	1		0.26250														
028.31	20	19	64.977	7.4422	66.104	5.6337	0.91390	8.52%	5.2217	1.0090	5.3183	7.94%	1.53%	8.08%	5.2707	1.2200	8.51%
028.32	6	6	72.597	11.719	72.714	1.2261	0.35396	1.69%	8.1447	0.75634	8.1797	10.67%	0.99%	10.72%	10.815	1.5500	8.39%
028.33	2	2	62.610	0.02121													
028.34	1		76.000														
028.41	29	28	69.253	7.0253	68.289	3.9664	0.53004	5.81%	3.7851	1.0455	3.9269	5.57%	1.54%	5.77%	3.7560	1.2448	8.47%
028.42	17	17	73.192	5.2629	72.486	2.9497	0.50587	4.07%	3.1399	1.3027	3.3994	4.35%	1.80%	4.71%	2.6096	1.5541	8.40%
028.43	14	13	67.550	16.164	71.719	3.6004	0.70610	5.02%	2.8026	2.5044	3.7585	3.90%	3.48%	5.22%	1.5008	3.2662	8.41%
028.44	3	3	64.600	4.4601	64.600	4.4601	1.8208	6.90%		3.5627			5.30%		3.0000		8.54%
028.52	1		59.226														
028.53	2	2	70.000	2.1213													
031.01	59	57	1.0308	0.08138	1.0470	0.03737	0.00350	3.57%	0.05742	0.01198	0.05866	5.51%	1.15%	5.63%	4.8964	0.01631	3.97%
031.02	3	3	0.71860	0.62244	0.71860	0.62244	0.25411	86.62%	0.77075	0.00000	0.77075	141.42%	0.00%	141.42%		0.00187	4.20%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sT	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
031.03	5	5	1.0686	0.05204	1.0686	0.05204	0.01646	4.87%	0.05321	0.00516	0.05346	5.03%	0.49%	5.05%	10.351	0.01228	3.96%
031.04	1		0.85500														
031.06	3	3	0.96867	0.08643	0.96867	0.08643	0.03529	8.92%	0.08619	0.00913	0.08667	8.90%	0.94%	8.95%	9.4944	0.01000	4.02%
031.41	33	32	1.0775	0.05510	1.0749	0.04436	0.00554	4.13%	0.04808	0.01446	0.05021	4.47%	1.34%	4.67%	3.4711	0.02172	3.96%
031.42	17	17	1.0642	0.06445	1.0474	0.03433	0.00589	3.28%	0.04257	0.02456	0.04915	4.04%	2.33%	4.67%	2.0009	0.02625	3.97%
031.43	10	10	1.0585	0.04130	1.0647	0.02603	0.00582	2.44%	0.01187	0.02934	0.03166	1.11%	2.74%	2.96%	1.0788	0.03100	3.96%
031.44	2	2	1.0650	0.03536													
031.52	1		0.82520														
031.53	1		1.0250														
031.99	4	4	1.0525	0.01190	1.0525	0.01190	0.00421	1.13%	0.01119	0.00574	0.01258	1.06%	0.55%	1.19%	2.1893	0.00700	3.97%
032.02	5	5	0.75265	0.07457	0.75265	0.07457	0.02358	9.91%	0.08444	0.01186	0.08527	11.14%	1.56%	11.24%	7.1879	0.02822	4.17%
032.31	22	22	0.74858	0.07627	0.75500	0.06725	0.01014	8.91%	0.07648	0.01393	0.07774	10.18%	1.85%	10.35%	5.5799	0.01696	4.17%
032.32	3	3	0.76290	0.03689	0.76290	0.03689	0.01506	4.84%	0.01796	0.04557	0.04899	2.35%	5.97%	6.42%	1.0749	0.04540	4.17%
032.33	1		0.83000														
032.41	28	27	0.78678	0.07298	0.77684	0.03264	0.00444	4.20%	0.03272	0.01482	0.03592	4.26%	1.93%	4.67%	2.4240	0.01648	4.15%
032.42	17	17	0.81016	0.06089	0.79043	0.02185	0.00375	2.76%	0.04608	0.01629	0.04887	5.76%	2.03%	6.11%	3.0006	0.01959	4.14%
032.43	10	10	0.81120	0.04047	0.80695	0.03549	0.00794	4.40%	0.02676	0.00783	0.02789	3.34%	0.98%	3.48%	3.5608	0.00720	4.13%
032.44	1		0.76500														
032.52	1		0.73850														
032.53	1		0.78700														
033.00	33	32	0.56830	0.17714	0.56324	0.07011	0.00876	12.45%	0.09173	0.00923	0.09219	16.75%	1.69%	16.84%	9.9851	0.01024	4.36%
033.01	36	34	0.62726	0.02109	0.62512	0.01521	0.00184	2.43%	0.01575	0.00898	0.01813	2.52%	1.44%	2.90%	2.0180	0.00878	4.29%
033.03	4	4	0.53750	0.05867	0.53750	0.05867	0.02074	10.91%	0.05638	0.02291	0.06086	10.49%	4.26%	11.32%	2.6562	0.03000	4.39%
033.05	4	4	0.60725	0.00608	0.60725	0.00608	0.00215	1.00%	0.00545	0.00381	0.00665	0.90%	0.63%	1.09%	1.7453	0.00350	4.31%
033.99	10	10	0.58001	0.08388	0.59415	0.06589	0.01473	11.09%	0.08100	0.03080	0.08666	13.97%	5.31%	14.94%	2.8138	0.03355	4.33%
034.04	4	4	0.43975	0.04754	0.43975	0.04754	0.01681	10.81%	0.04516	0.02102	0.04981	10.27%	4.78%	11.33%	2.3693	0.02100	18.10%
034.31	1		4.5000														
034.42	1		1.2050														
034.43	3	3	0.22083	0.19143	0.22083	0.19143	0.07815	86.68%	0.24006	0.00150	0.24007	141.42%	0.88%	141.42%	160.04	0.03900	20.08%
034.52	1		0.23950														
034.53	3	3	0.31233	0.19398	0.31233	0.19398	0.07919	62.11%	0.03323	0.00000	0.03323	7.85%	0.00%	7.85%		0.01333	19.06%
034.99	1		0.34300														
035.01	4	4	0.24888	0.01794	0.24888	0.01794	0.00634	7.21%	0.01772	0.00395	0.01815	7.12%	1.59%	7.29%	4.5925	0.00425	4.93%
035.02	1		0.25000														
035.05	7	7	0.24906	0.01663	0.25286	0.00956	0.00255	3.78%	0.00703	0.00275	0.00755	2.76%	1.08%	2.96%	2.7463	0.00280	4.92%
035.31	24	22	0.25015	0.02350	0.24836	0.02155	0.00325	8.68%	0.01736	0.00663	0.01858	7.06%	2.70%	7.56%	2.8008	0.00802	4.93%
035.32	5	5	0.26478	0.03204	0.26478	0.03204	0.01013	12.10%	0.00908	0.00557	0.01065	3.62%	2.22%	4.24%	1.9112	0.01380	4.89%
035.33	2	2	0.24600	0.01556													

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS fp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
035.41	37	36	0.25394	0.02886	0.24747	0.01253	0.00148	5.06%	0.01568	0.00543	0.01659	6.32%	2.19%	6.69%	3.0584	0.00641	4.94%
035.42	15	15	0.25064	0.01617	0.24652	0.00959	0.00175	3.89%	0.01125	0.00693	0.01321	4.54%	2.80%	5.33%	1.9064	0.00860	4.94%
035.43	11	10	0.24265	0.03061	0.24540	0.02841	0.00635	11.58%	0.03232	0.00135	0.03235	13.27%	0.56%	13.29%	23.892	0.00190	4.94%
035.52	1		0.24850														
035.53	1		0.24250														
036.00	1		0.19500														
036.04	3	3	0.23333	0.01041	0.23333	0.01041	0.00425	4.46%	0.00957	0.00577	0.01118	4.10%	2.47%	4.79%	1.9365	0.00667	4.98%
036.42	15	14	0.21608	0.01245	0.21565	0.01319	0.00249	6.11%	0.01208	0.00425	0.01281	5.59%	1.97%	5.93%	3.0149	0.00427	5.04%
036.43	7	7	0.22907	0.01751	0.22907	0.01986	0.00531	8.67%	0.01699	0.00601	0.01802	7.42%	2.62%	7.87%	3.0004	0.00614	4.99%
037.31	20	19	178.96	14.307	177.57	10.171	1.6499	5.73%	8.8660	2.9012	9.3286	5.03%	1.64%	5.29%	3.2154	3.2512	7.34%
037.32	6	6	184.64	18.514	180.37	8.5633	2.4720	4.75%	5.2341	5.5227	7.6090	2.95%	3.11%	4.29%	1.3778	5.7833	7.32%
037.33	3	3	195.45	25.260	195.45	25.260	10.312	12.92%	25.125	3.6858	25.394	12.85%	1.89%	12.99%	6.8896	4.4100	7.23%
037.34	2	2	174.25	1.0607													
037.41	30	30	181.57	11.521	181.33	12.095	1.5614	6.67%	11.107	4.4644	11.971	6.11%	2.45%	6.58%	2.6814	4.8023	7.31%
037.42	16	15	186.87	13.628	186.13	13.682	2.4979	7.35%	13.240	4.5714	14.007	7.08%	2.45%	7.50%	3.0639	4.6533	7.28%
037.43	15	14	187.25	13.037	185.69	10.033	1.8961	5.40%	13.319	3.6097	13.800	7.12%	1.93%	7.37%	3.8229	4.8143	7.29%
037.44	2	2	171.50	6.3640													
037.52	1		137.61														
037.53	2	2	174.25	14.496													
038.41	1		0.70000														
038.42	2	2	0.57850	0.03748													
038.43	5	5	1.1900	0.53190	1.1900	0.53190	0.16820	44.70%	0.07866	0.07566	0.10914	8.24%	7.92%	11.43%	1.4425	0.09200	15.58%
038.52	1		0.85550														
038.53	1		0.79700														
041.53	1		0.18800														
057.99	1		0.05690														
101.02	2	2	530.77	89.566													
102.02	3	3	43.659	40.754	43.659	40.754	16.638	93.35%		1.8763			9.32%			1.7200	8.05%
103.01	2	2	411.07	565.58													
104.00	1		3.5800														
104.03	4	4	2.8433	0.92313	2.8433	0.92313	0.32638	32.47%		0.17914			7.51%			0.31580	12.14%
104.99	1		2.2250														
105.00	6	6	4.2155	0.49326	4.2575	0.47070	0.13588	11.06%	0.48765	0.10489	0.49881	11.57%	2.49%	11.83%	4.7554	0.10973	11.42%
106.00	1		2.4000														
106.01	1		2.1400														
106.02	19	19	2.2787	0.64384	2.2295	0.54103	0.08777	24.27%	0.64606	0.16410	0.66657	28.60%	7.27%	29.51%	4.0620	0.21424	
108.01	3	3	77.533	133.21	77.533	133.21	54.383	171.81%	0.88318	0.05000	0.88459	141.31%	8.00%	141.53%	17.692	15.133	
108.02	3	3	0.83167	0.74055	0.83167	0.74055	0.30233	89.04%	0.73977	0.04778	0.74132	88.95%	5.75%	89.14%	15.514	0.05000	

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109.00	1		47.500														
109.01	1		49.950														
109.02	16	15	70.881	12.947	69.764	11.888	2.1704	17.04%	12.317	2.6483	12.599	17.69%	3.80%	18.09%	4.7573	3.6346	8.44%
110.00	1		3.2750														
112.00	1		11.750														
112.99	2	2	7.6400	3.3375													
113.01	2	2	2.1300	1.0819													
113.02	1		11.500														
114.01	1		0.37000														
114.99	1		0.39000														
115.99	1		0.26000														
120.00	17	16	1.1606	0.05506	1.1528	0.03726	0.00659	3.23%	0.02814	0.01010	0.02990	2.44%	0.88%	2.60%	2.9591	0.01593	3.92%
120.01	3	3	1.4357	0.49838	1.4357	0.49838	0.20346	34.71%	0.49747	0.04259	0.49929	34.65%	2.97%	34.78%	11.723	0.04733	3.79%
120.02	3	3	1.1561	0.05523	1.1561	0.05523	0.02255	4.78%		0.05077			4.52%			0.05140	3.91%
120.05	3	3	1.1059	0.08534	1.1059	0.08534	0.03484	7.72%	0.07751	0.05051	0.09252	7.01%	4.57%	8.37%	1.8318	0.05767	3.94%
120.99	1		1.2550														
121.00	17	16	1.2405	0.03379	1.2411	0.03484	0.00616	2.81%	0.03261	0.01249	0.03492	2.63%	1.01%	2.82%	2.7958	0.01539	3.87%
121.01	3	3	1.5535	0.41719	1.5535	0.41719	0.17032	26.85%	0.41714	0.00877	0.41723	26.85%	0.56%	26.86%	47.600	0.00967	3.74%
121.02	2	2	1.2291	0.02705													
121.05	3	3	1.2083	0.08677	1.2083	0.08677	0.03542	7.18%	0.08583	0.01805	0.08770	7.10%	1.49%	7.26%	4.8599	0.02133	3.89%
121.99	1		1.2050														
122.00	17	16	1.6163	0.06427	1.6095	0.05283	0.00934	3.28%	0.06225	0.01464	0.06395	3.84%	0.90%	3.94%	4.3677	0.02473	3.72%
122.01	4	4	1.9453	0.71408	1.9453	0.71408	0.25246	36.71%	0.04371	0.00833	0.04450	2.75%	0.52%	2.80%	5.3439	0.01350	3.62%
122.02	3	3	1.6189	0.06331	1.6189	0.06331	0.02585	3.91%		0.09958			6.15%			0.09943	3.72%
122.05	3	3	1.5552	0.13848	1.5552	0.13848	0.05654	8.90%	0.12782	0.07535	0.14838	8.22%	4.85%	9.54%	1.9691	0.08633	3.74%
122.99	1		1.2200														
123.99	2	2	3.0375	0.06010													
124.00	17	17	0.32953	0.03568	0.33278	0.02200	0.00377	6.61%	0.02028	0.00996	0.02259	6.03%	2.96%	6.71%	2.2681	0.00943	4.72%
124.01	3	3	0.42200	0.18448	0.42200	0.18448	0.07531	43.72%	0.00200	0.00412	0.00458	0.63%	1.31%	1.45%	1.1114	0.00667	4.55%
124.02	2	2	0.34355	0.02623													
124.05	2	2	0.29575	0.10288													
124.99	1		0.24000														
125.00	16	15	2.9802	0.15488	2.9796	0.11964	0.02184	4.02%	0.15300	0.03404	0.15674	5.13%	1.14%	5.26%	4.6051	0.03602	3.39%
125.01	4	4	3.5788	1.0375	3.5788	1.0375	0.36680	28.99%	0.13809	0.05549	0.14882	4.51%	1.81%	4.86%	2.6819	0.06100	3.30%
125.02	3	3	2.9273	0.06417	2.9273	0.06417	0.02620	2.19%		0.14852			5.07%			0.14393	3.40%
125.05	3	3	2.9232	0.26355	2.9232	0.26355	0.10759	9.02%	0.15336	0.00700	0.15352	5.51%	0.25%	5.51%	21.932	0.09833	3.40%
126.00	17	16	1.2918	0.04331	1.2874	0.03590	0.00635	2.79%	0.03030	0.01515	0.03387	2.36%	1.18%	2.64%	2.2364	0.01705	3.85%
126.01	4	4	1.3413	0.12291	1.3413	0.12291	0.04345	9.16%	0.11780	0.04960	0.12781	8.78%	3.70%	9.53%	2.5767	0.05450	3.83%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sT	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
126.02	3	3	1.3760	0.07322	1.3760	0.07322	0.02989	5.32%	0.06783	0.03899	0.07824	4.93%	2.83%	5.69%	2.0067	0.04413	3.81%
126.05	3	3	1.2327	0.08479	1.2327	0.08479	0.03462	6.88%	0.08389	0.01745	0.08569	6.81%	1.42%	6.95%	4.9118	0.02400	3.88%
126.99	1		1.4100														
127.00	16	16	0.45612	0.05033	0.45146	0.02416	0.00427	5.35%	0.02694	0.01334	0.03006	6.04%	2.99%	6.75%	2.2533	0.01375	4.51%
127.01	3	3	0.47933	0.07893	0.47933	0.07893	0.03222	16.47%	0.01127	0.00141	0.01136	2.60%	0.33%	2.62%	8.0312	0.00800	4.47%
127.02	2	2	0.43083	0.02945													
127.05	3	3	0.46367	0.03057	0.46367	0.03057	0.01248	6.59%	0.01909	0.00000	0.01909	3.98%	0.00%	3.98%		0.00400	4.49%
127.99	1		0.44000														
128.00	17	16	0.67857	0.06031	0.69274	0.02281	0.00403	3.29%	0.02996	0.00647	0.03065	4.32%	0.93%	4.42%	4.7358	0.00764	4.23%
128.01	4	4	0.86838	0.23947	0.86838	0.23947	0.08467	27.58%	0.23851	0.03042	0.24044	27.47%	3.50%	27.69%	7.9029	0.03725	4.09%
128.02	3	3	0.69017	0.05212	0.69017	0.05212	0.02128	7.55%	0.04659	0.03304	0.05712	6.75%	4.79%	8.28%	1.7286	0.03153	4.23%
128.05	3	3	0.69483	0.03403	0.69483	0.03403	0.01389	4.90%	0.01031	0.00354	0.01090	1.44%	0.50%	1.53%	3.0822	0.02767	4.23%
128.99	1		0.60000														
129.00	17	16	1.5231	0.04557	1.5270	0.04295	0.00759	2.81%	0.04641	0.01150	0.04781	3.05%	0.75%	3.14%	4.1590	0.01452	3.75%
129.01	4	4	1.6546	0.29429	1.6546	0.29429	0.10405	17.79%	0.29365	0.02727	0.29492	17.75%	1.65%	17.82%	10.815	0.02925	3.71%
129.02	3	3	1.5385	0.05909	1.5385	0.05909	0.02412	3.84%	0.03560	0.06670	0.07561	2.31%	4.34%	4.91%	1.1335	0.06890	3.75%
129.05	3	3	1.5065	0.05528	1.5065	0.05528	0.02257	3.67%	0.04823	0.03820	0.06153	3.20%	2.54%	4.08%	1.6106	0.03700	3.76%
129.99	1		1.6500														
130.00	17	16	0.85275	0.04009	0.85722	0.01816	0.00321	2.12%	0.01493	0.00828	0.01708	1.74%	0.97%	1.99%	2.0621	0.01222	4.09%
130.01	4	4	1.0249	0.27686	1.0249	0.27686	0.09789	27.01%	0.27599	0.03095	0.27772	26.93%	3.02%	27.10%	8.9723	0.03775	3.98%
130.02	2	2	0.87668	0.05894													
130.05	4	4	0.88888	0.05486	0.88888	0.05486	0.01939	6.17%	0.04279	0.04854	0.06471	4.81%	5.46%	7.28%	1.3332	0.05025	4.07%
130.99	1		0.94500														
131.00	17	16	0.30162	0.03933	0.30872	0.01790	0.00316	5.80%	0.02888	0.00941	0.03038	9.37%	3.05%	9.85%	3.2286	0.00987	4.77%
131.01	4	4	0.37538	0.16601	0.37538	0.16601	0.05869	44.23%	0.03801	0.00204	0.03806	12.93%	0.69%	12.95%	18.646	0.03675	4.64%
131.02	3	3	0.28848	0.02899	0.28848	0.02899	0.01183	10.05%	0.02639	0.01695	0.03137	9.15%	5.87%	10.87%	1.8509	0.01850	4.82%
131.05	3	3	0.27100	0.07637	0.27100	0.07637	0.03118	28.18%	0.07622	0.00678	0.07652	28.13%	2.50%	28.24%	11.283	0.00733	4.87%
131.99	1		0.33000														
132.00	17	16	0.83815	0.03677	0.83193	0.02456	0.00434	2.95%	0.02640	0.01150	0.02879	3.17%	1.38%	3.46%	2.5033	0.01357	4.11%
132.01	4	4	0.96325	0.22823	0.96325	0.22823	0.08069	23.69%	0.01345	0.01335	0.01895	1.58%	1.57%	2.23%	1.4193	0.01450	4.02%
132.02	3	3	0.83800	0.01539	0.83800	0.01539	0.00628	1.84%	0.01448	0.00466	0.01521	1.71%	0.55%	1.80%	3.2609	0.06093	4.11%
132.05	3	3	0.83733	0.05187	0.83733	0.05187	0.02117	6.19%	0.05057	0.01632	0.05313	6.04%	1.95%	6.35%	3.2558	0.01867	4.11%
132.99	1		0.80500														
133.00	17	17	1.2863	0.08878	1.2899	0.05907	0.01013	4.58%	0.07024	0.02498	0.07455	5.41%	1.92%	5.74%	2.9846	0.02521	3.85%
133.04	1		1.2850														
133.05	3	3	1.2918	0.06089	1.2918	0.06089	0.02486	4.71%	0.05682	0.03097	0.06471	4.40%	2.40%	5.01%	2.0897	0.03433	3.85%
133.99	3	3	1.6767	0.38146	1.6767	0.38146	0.15573	22.75%	0.37858	0.06608	0.38431	22.58%	3.94%	22.92%	5.8157	0.07333	3.70%
134.00	17	16	0.92958	0.05765	0.92402	0.04388	0.00776	4.75%	0.03779	0.00977	0.03903	4.11%	1.06%	4.25%	3.9940	0.01059	4.05%

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ftp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
134.01	4	4	1.0370	0.28840	1.0370	0.28840	0.10196	27.81%	0.28770	0.02838	0.28909	27.74%	2.74%	27.88%	10.186	0.03550	3.98%
134.02	3	3	0.89665	0.02037	0.89665	0.02037	0.00832	2.27%		0.00710			0.80%			0.04610	4.07%
134.05	3	3	0.91033	0.10588	0.91033	0.10588	0.04323	11.63%	0.10564	0.01012	0.10613	11.60%	1.11%	11.66%	10.491	0.01200	4.06%
134.99	1		1.0050														
135.00	17	16	0.67966	0.02654	0.68381	0.01598	0.00282	2.34%	0.01151	0.01003	0.01526	1.68%	1.46%	2.23%	1.5221	0.01153	4.24%
135.01	4	4	0.78363	0.18792	0.78363	0.18792	0.06644	23.98%	0.01280	0.00689	0.01454	1.86%	1.00%	2.11%	2.1093	0.01425	4.15%
135.02	3	3	0.67940	0.02214	0.67940	0.02214	0.00904	3.26%	0.01973	0.01419	0.02430	2.90%	2.09%	3.58%	1.7133	0.01787	4.24%
135.05	3	3	0.66900	0.04761	0.66900	0.04761	0.01944	7.12%	0.04655	0.01413	0.04865	6.96%	2.11%	7.27%	3.4428	0.01533	4.25%
135.99	1		0.67500														
136.00	4	4	0.18085	0.01879	0.18085	0.01879	0.00664	10.39%	0.01439	0.01708	0.02234	7.96%	9.45%	12.35%	1.3075	0.02115	5.17%
136.01	6	6	0.17733	0.01954	0.17733	0.02216	0.00640	12.49%	0.01533	0.00161	0.01542	8.38%	0.88%	8.42%	9.5610	0.00333	5.19%
136.02	1		0.15500														
136.03	2	2	0.19525	0.01025													
136.99	3	3	0.19300	0.00826	0.19300	0.00826	0.00337	4.28%	0.00676	0.00671	0.00953	3.50%	3.48%	4.94%	1.4201	0.00800	5.12%
137.00	12	12	0.55294	0.05847	0.55483	0.05899	0.01204	10.63%	0.05884	0.00978	0.05965	10.56%	1.76%	10.70%	6.0974	0.01404	4.37%
137.01	2	2	0.66900	0.00141													
137.02	3	3	0.53067	0.08814	0.53067	0.08814	0.03598	16.61%	0.08626	0.02562	0.08999	16.26%	4.83%	16.96%	3.5118	0.02820	4.40%
137.05	3	3	0.48083	0.14984	0.48083	0.14984	0.06117	31.16%	0.14950	0.01438	0.15019	31.09%	2.99%	31.23%	10.443	0.01767	4.47%
137.99	1		0.61000														
138.00	17	16	0.90988	0.07383	0.92082	0.05023	0.00888	5.46%	0.04101	0.01257	0.04289	4.43%	1.36%	4.64%	3.4132	0.01440	4.05%
138.01	3	3	1.1473	0.33404	1.1473	0.33404	0.13637	29.11%	0.33373	0.02058	0.33436	29.09%	1.79%	29.14%	16.244	0.02667	3.92%
138.02	3	3	0.94670	0.10003	0.94670	0.10003	0.04084	10.57%	0.09467	0.04568	0.10511	10.00%	4.83%	11.10%	2.3010	0.04633	4.03%
138.05	3	3	0.92100	0.06038	0.92100	0.06038	0.02465	6.56%	0.05528	0.03434	0.06508	6.00%	3.73%	7.07%	1.8953	0.03733	4.05%
138.99	1		0.90500														
139.00	3	3	0.14717	0.09019	0.14717	0.09019	0.03682	61.28%	0.11912	0.00350	0.11917	71.87%	2.11%	71.90%	34.049	0.03567	5.34%
139.02	2	2	0.00785	0.00403													
140.01	1		0.01900														
142.00	1		0.02800														
160.99	1		0.04700														
161.99	1		0.00000														
162.99	1		0.00000														
163.99	1		0.00000														
164.99	1		0.00000														
165.99	1		2.8130														
166.99	1		0.24500														
167.99	1		0.31850														
210.99	1		3.3050														
400.01	3	3	0.35267	0.01537	0.35267	0.01537	0.00628	4.36%	0.01532	0.00183	0.01543	4.34%	0.52%	4.37%	8.4499	0.00200	

Method Code	Total # Labs Submitting	# Labs Included in Calculations	Mean	SD	Assigned Value - Robust Mean	AAFCO CS ffp - Robust sd	Uncertainty (U)	% RSD	Between Labs sL	Within Labs sr	Reproducibility sR	Between Labs %RSD	Within Labs %/rsd	Reproducibility %RSD	sR/sr	Average Range (R-bar)	Horwitz %RSD
516.01	1		0.22000														
516.34	1		0.00935														
516.53	1		0.23600														
518.34	1		0.01105														
518.41	2	2	0.04000	0.02828													
518.52	1		0.05400														
518.53	1		0.03370														
520.31	1		1.8000														
520.41	2	2	2.6228	0.75272													
520.43	1		3.6150														
520.52	1		4.3305														
520.53	1		0.79200														
526.31	1		0.06520														
526.34	1		0.10040														
526.41	1		0.15000														
526.53	1		0.19000														
529.99	1		6.8500														
539.31	2	2	2.8625	0.44194													
539.41	1		2.3198														
539.52	1		3.0035														
539.53	1		1.6400														
600.01	1																
600.12	1																
621.23	1																
622.23	1																
623.23	1																
630.23	1																
650.23	1																