

Feed Check Sample No. - 200921 Chicken Starter/Grower, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 215 Labs - - Pass 2 Results for 214 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Urea, Misc		000.99	1	0.13000	0.01414	0.02000	1	0.13000	0.01414	0.02000
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	11	10.8291	0.56529	0.26000	10	10.8670	0.54044	0.15600
Loss on Drying, ISO 6496		001.03	3	10.8817	0.27426	0.10333	3	10.8817	0.27426	0.10333
Loss on Drying, LECO		001.05	1	9.72000	0.01414	0.02000	1	9.72000	0.01414	0.02000
Loss on Drying, 104 deg 3 hr, in malt ..	935.29	001.07	37	10.7866	0.43092	0.17824	33	10.7683	0.42085	0.09985
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	11.0300	0.18385	0.26000	1	11.0300	0.18385	0.26000
Loss on Drying, Misc		001.99	19	10.6229	0.62010	0.15840	18	10.6417	0.62187	0.11442
Method Group 001.XX PCT			72	10.7424	0.51637	0.18131	66	10.7419	0.51020	0.11371
Protein, Crude	954.01	002.00	6	17.3650	0.41684	0.06667	6	17.3650	0.41684	0.06667
Protein, Auto Kjel-Foss	976.05	002.01	10	17.3631	0.12570	0.03751	10	17.3631	0.12570	0.03751
Protein, Semiauto Autoanalyzer	976.06	002.02	7	17.6661	0.43065	0.18086	6	17.6605	0.45009	0.11100
Protein, Hach Method		002.03	1	17.0800	0.00000	0.00000	1	17.0800	0.00000	0.00000
Protein, Copper Cat	984.13	002.04	5	17.2910	0.22703	0.08200	5	17.2910	0.22703	0.08200
Protein, Copper, Boric Acid		002.05	19	17.2914	0.14714	0.06263	18	17.2959	0.14670	0.05166
Protein, Combustion Nitrogen Analyzer	990.03	002.06	136	17.6412	0.34325	0.12876	128	17.6470	0.31754	0.10884
Protein, Cu/Ti	988.05	002.08	4	17.5583	0.58682	0.11843	4	17.5583	0.58682	0.11843
Protein, Block dig/distillation		002.10	10	17.4272	0.22138	0.10980	9	17.4141	0.21800	0.07422
Protein, NIR		002.11	9	17.6046	0.30721	0.15300	8	17.6052	0.30815	0.09713
Protein, Misc		002.99	5	17.6679	0.25508	0.18416	5	17.6679	0.25508	0.18416
Method Group 002.XX PCT			212	17.5663	0.34704	0.11803	200	17.5680	0.33241	0.09776
Fat, Eth Ext, Direct	920.39	003.00	29	3.91472	0.27924	0.07791	27	3.90804	0.27219	0.04812
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	3.50000	0.05657	0.08000	1	3.50000	0.05657	0.08000
Fat, In Fish Meal	948.04	003.04	1	4.20000	0.05657	0.08000	1	4.20000	0.05657	0.08000
Fat, Pet Ether		003.06	22	3.84595	0.23522	0.10982	21	3.83814	0.23429	0.09695
Fat, Soxtec, Eth Ext		003.09	29	3.87670	0.13659	0.05042	27	3.88201	0.13662	0.03934
Fat, Soxtec, Pet Ether		003.10	27	3.82863	0.11991	0.07100	26	3.82934	0.11746	0.06065
Fat, NIR		003.11	12	3.85816	0.20996	0.05799	10	3.84480	0.21336	0.01959
Fat, Hexane Ext.		003.12	1	3.92000	0.14142	0.20000	1	3.92000	0.14142	0.20000
Fat, Soxtec, Hexane Ext.		003.13	4	4.00350	0.18465	0.09750	4	4.00350	0.18465	0.09750
Fat, Ankom		003.14	16	3.76938	0.23614	0.18500	16	3.76938	0.23614	0.18500
Fat, Misc		003.99	10	3.86420	0.22855	0.09386	9	3.89633	0.20496	0.05651
Method Group 003.XX PCT			152	3.86065	0.21362	0.08815	143	3.85982	0.21040	0.07265
Fiber, Crude Asbestos Free	962.09	004.00	29	3.02721	0.27507	0.08682	27	2.99701	0.25169	0.05843
Fiber, Sing Filt		004.01	2	3.65500	0.16921	0.15000	2	3.65500	0.16921	0.15000
Fiber, Fritted Glass	978.10	004.03	3	3.34000	0.32237	0.30000	3	3.34000	0.32237	0.30000
Fiber, Fibertec		004.06	30	3.22802	0.33629	0.12603	29	3.20571	0.31134	0.10452
Fiber, ANKOM		004.07	43	2.91637	0.33829	0.10963	42	2.90664	0.33292	0.09771
Fiber, NIR		004.11	12	3.30564	0.26353	0.08858	12	3.30564	0.26353	0.08858
Fiber, Misc		004.99	3	2.97667	0.63023	0.15333	3	2.97667	0.63023	0.15333

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Method Group 004.XX PCT			122	3.08165	0.36115	0.11259	118	3.06688	0.35164	0.09691
Ash,	942.05	005.00	128	5.14729	0.19574	0.05489	121	5.14259	0.19567	0.04617
Ash, LECO		005.02	1	5.37500	0.00707	0.01000	1	5.37500	0.00707	0.01000
Ash, NIR		005.11	8	5.17609	0.32947	0.06659	7	5.13696	0.32954	0.03324
Ash, Misc		005.99	13	5.15673	0.24578	0.11885	12	5.14604	0.24178	0.08625
Method Group 005.XX PCT			150	5.15116	0.20870	0.06076	141	5.14425	0.20743	0.04868
Fiber, Acid Detergent	973.18	008.02	16	4.45695	0.47656	0.12323	15	4.43908	0.48404	0.10277
Fiber, Acid Detergent-Hach		008.05	1	5.00000	1.13137	1.60000	1	5.00000	1.13137	1.60000
Fiber, Acid Detergent by ANKOM		008.08	20	4.07210	0.49650	0.15920	20	4.07210	0.49650	0.15920
Fiber, Acid Detergent Misc		008.99	5	4.25500	0.36299	0.27800	5	4.25500	0.36299	0.27800
Method Group 008.XX PCT			42	4.26258	0.52491	0.19394	41	4.25130	0.52515	0.18819
Fiber, Neutral Det-No ENZ Pretreat		009.04	2	14.2881	1.04969	1.26737	2	14.2881	1.04969	1.26737
Fiber, Neutral Det-ENZ Pretreat		009.07	13	12.0477	1.24647	0.34462	13	12.0477	1.24647	0.34462
Fiber, Neutral Detergent by ANKOM		009.09	16	11.6506	0.78257	0.24125	16	11.6506	0.78257	0.24125
Fiber, Neutral Det Misc		009.99	4	12.8450	1.67782	0.23500	5	13.7860	2.47767	0.28800
Method Group 009.XX PCT			35	12.0853	1.26804	0.33756	35	12.0853	1.26804	0.33756
Moisture, Karl-Fischer	966.20	010.03	3	9.96108	0.82540	0.18263	3	9.96108	0.82540	0.18263
Moisture, NIR		010.11	8	11.1718	0.36255	0.12900	7	11.2177	0.35192	0.07600
Moisture, Misc		010.99	16	10.7506	0.38388	0.15790	14	10.7064	0.36386	0.08474
Method Group 010.XX PCT			27	10.7877	0.55711	0.15209	24	10.7624	0.57304	0.09443
Loss on Drying, 135 deg 2 hr	930.15	011.01	79	11.5848	0.33067	0.10628	73	11.5878	0.29970	0.07913
Loss on Drying, High Temp Methods, Misc		011.99	2	11.7000	0.28577	0.25000	2	11.7000	0.28577	0.25000
Method Group 011.XX PCT			81	11.5877	0.32934	0.10983	75	11.5908	0.29897	0.08368
Starch, Polarimetric (Ewers)		012.00	8	42.3563	1.34996	0.79000	8	42.3563	1.34996	0.79000
Starch, Megazyme		012.01	2	40.1625	0.88538	1.03500	2	40.1625	0.88538	1.03500
Starch, Colorimetric (GOP)		012.02	1	38.1500	0.91924	1.30000	1	38.1500	0.91924	1.30000
Starch, Enzymatic		012.03	1	42.7000	0.28284	0.40000	1	42.7000	0.28284	0.40000
Starch, YSI Analyzer		012.04	6	40.2308	1.90882	0.24833	6	40.2308	1.90882	0.24833
Starch, NIR		012.11	2	40.8125	0.78991	0.82500	2	40.8125	0.78991	0.82500
Starch, Misc.		012.99	2	38.9244	1.45951	0.27495	2	38.9244	1.45951	0.27495
Method Group 012.XX PCT			22	40.9493	1.91430	0.62636	22	40.9493	1.91430	0.62636
Fat, Mojonier, Bak Ext	954.02	013.02	32	4.82234	0.35479	0.14769	31	4.84823	0.32474	0.13374
Fat, Soxtec-Acid Hydrolysis		013.10	18	4.69392	0.42754	0.17883	18	4.69392	0.42754	0.17883
Fat, Super Critical Fluid Extraction ..		013.11	2	4.21575	0.33864	0.23150	2	4.21575	0.33864	0.23150
Fat, NIR-Acid Hydrolysis		013.12	3	4.13667	0.17840	0.18000	3	4.13667	0.17840	0.18000
Fat, Ankon-Acid Hydrolysis		013.13	1	4.64000	0.14142	0.20000	1	4.64000	0.14142	0.20000
Fat, Pretreat or extended ext, misc ...		013.99	1	5.36375	0.04419	0.06250	1	5.36375	0.04419	0.06250
Method Group 013.XX PCT			57	4.73071	0.41472	0.16159	56	4.74341	0.40536	0.15412
Aluminum, ICP		015.00	11	81.9386	7.97596	2.34282	10	82.5824	7.96120	1.67710

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Method Group 015.XX PPM			11	81.9386	7.97596	2.34282	10	82.5824	7.96120	1.67710
Arsenic, Misc		016.99	1	0.12847	0.00151	0.00213	1	0.12847	0.00151	0.00213
Boron, ICP		017.00	6	8.98583	1.17175	0.25167	6	8.98583	1.17175	0.25167
Boron, Misc		017.99	2	8.51500	0.52342	0.37000	2	8.51500	0.52342	0.37000
Method Group 017.XX PPM			8	8.86812	1.05167	0.28125	8	8.86812	1.05167	0.28125
Cadmium, ICP		018.02	1	0.06700	0.01768	0.02500	1	0.06700	0.01768	0.02500
Calcium, Ox-Mn04 Vol	927.02	019.00	12	0.95676	0.07136	0.01776	12	0.95676	0.07136	0.01776
Calcium, At Abs Spect	968.08	019.01	46	0.95376	0.05283	0.01533	43	0.95356	0.04325	0.01268
Calcium, Semiauto (Autoanalyzer)		019.03	5	1.00850	0.02846	0.00820	5	1.00850	0.02846	0.00820
Calcium, ICP, Dry Ash.....		019.05	39	0.96225	0.04294	0.02236	35	0.96130	0.03850	0.01305
Calcium, EDTA		019.08	5	1.00370	0.07415	0.01780	5	1.00370	0.07415	0.01780
Calcium, ICP, Wet Ash		019.09	33	0.97806	0.05225	0.02086	33	0.97806	0.05225	0.02086
Calcium, Misc		019.99	7	0.94614	0.07911	0.01600	7	0.94614	0.07911	0.01600
Method Group 019.XX PCT			147	0.96491	0.05519	0.01851	140	0.96493	0.05212	0.01532
Chromium, AA.....		020.00	2	2.25000	0.06272	0.03000	2	2.25000	0.06272	0.03000
Chromium, ICP		020.01	9	1.93412	0.29821	0.22458	8	1.94464	0.24370	0.11515
Chromium, Misc		020.99	1	2.03000	0.15556	0.22000	1	2.03000	0.15556	0.22000
Method Group 020.XX PPM			12	1.99476	0.28568	0.19177	11	2.00792	0.24166	0.10920
Cobalt, AA	968.08	021.01	1	1.43500	0.06364	0.09000	1	1.43500	0.06364	0.09000
Cobalt, ICP		021.02	7	0.37882	0.06149	0.06064	7	0.37882	0.06149	0.06064
Cobalt, Misc.		021.99	1	0.99100	0.01556	0.02200	1	0.99100	0.01556	0.02200
Method Group 021.XX PPM			9	0.56419	0.37694	0.05961	9	0.56419	0.37694	0.05961
Copper, AA	968.08	022.01	24	13.3118	1.48954	0.82608	22	13.3470	1.47979	0.64209
Copper, ICP, Dry Ash	968.08	022.03	28	13.3377	1.53577	0.73143	28	13.3377	1.53577	0.73143
Copper, ICP, Wet Ash	968.08	022.05	31	13.4716	1.32329	0.66442	30	13.3815	1.22587	0.60423
Copper, Misc		022.99	4	11.7773	0.75119	0.40747	4	11.7773	0.75119	0.40747
Method Group 022.XX PPM			87	13.3065	1.45297	0.71877	84	13.2815	1.41751	0.64718
Fluorine, Ion Sel Elect	975.08	023.01	1	0.00200	0.00000	0.00000	1	0.00200	0.00000	0.00000
Iron, AA	968.08	025.01	19	228.817	14.8817	5.40809	17	230.251	14.3017	3.33199
Iron, ICP, Dry Ash	968.08	025.03	25	229.738	14.4763	7.01200	24	229.581	13.4470	4.84583
Iron, ICP, Wet Ash	968.08	025.05	25	238.030	21.1884	9.33772	23	239.108	19.2599	7.00835
Iron, Misc		025.99	4	218.303	14.8691	7.73897	4	218.303	14.8691	7.73897
Method Group 025.XX PPM			73	231.711	17.8029	7.43086	68	232.307	16.7078	5.36900
Lead, Misc		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Magnesium, AA	968.08	027.01	27	0.19277	0.00572	0.00366	25	0.19321	0.00513	0.00263
Magnesium, ICP, Dry Ash	968.08	027.03	28	0.19514	0.00936	0.00310	27	0.19533	0.00928	0.00247
Magnesium, ICP, Wet Ash	968.08	027.05	27	0.19575	0.00978	0.00432	27	0.19575	0.00978	0.00432
Magnesium, Misc.		027.99	4	0.18980	0.01688	0.00670	4	0.18980	0.01688	0.00670
Method Group 027.XX PCT			86	0.19434	0.00907	0.00383	83	0.19456	0.00898	0.00333

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Manganese, AA	968.08	028.01	24	77.5119	7.47229	2.05958	23	77.3602	7.49349	1.62739
Manganese, ICP, Dry Ash	968.08	028.03	27	78.1794	4.16885	1.91111	26	78.2210	4.19664	1.73846
Manganese, ICP, Wet Ash	968.08	028.05	28	83.4128	4.35885	2.87496	27	83.0489	3.94098	2.73848
Manganese, Misc.		028.99	5	77.9852	5.36945	1.19664	5	77.9852	5.36945	1.19664
Method Group 028.XX PPM			84	79.7216	5.99689	2.23229	81	79.5713	5.84776	2.00682
Mercury,		029.00	1	0.00250	0.00071	0.00100	1	0.00250	0.00071	0.00100
Mercury, Misc		029.99	1	0.01941	0.00080	0.00113	1	0.01941	0.00080	0.00113
Method Group 029.XX PPM			2	0.01096	0.00978	0.00107	2	0.01096	0.00978	0.00107
Phosphorus, Vol	964.06	031.00	1	0.71735	0.00417	0.00590	1	0.71735	0.00417	0.00590
Phosphorus, Photometric	965.17	031.01	50	0.72152	0.02510	0.00963	49	0.72267	0.02373	0.00880
Phosphorus, GQMP (2.028)	964.06	031.02	4	0.73992	0.00787	0.00550	4	0.73992	0.00787	0.00550
Phosphorus, Autoanalyzer		031.03	7	0.73183	0.02356	0.00626	7	0.73183	0.02356	0.00626
Phosphorus, ICP		031.05	67	0.73677	0.03550	0.01710	61	0.74113	0.02989	0.01324
Phosphorus, Hach Method.....		031.06	3	0.74833	0.05707	0.03000	3	0.74833	0.05707	0.03000
Phosphorus, Misc		031.99	9	0.71489	0.03212	0.01844	9	0.71489	0.03212	0.01844
Method Group 031.XX PCT			141	0.72992	0.03224	0.01387	134	0.73208	0.02940	0.01169
Potassium, AA	975.03	032.01	24	0.77407	0.04721	0.01443	24	0.77407	0.04721	0.01443
Potassium, Flame Emission	956.01	032.02	8	0.77488	0.05473	0.01691	8	0.77488	0.05473	0.01691
Potassium, ICP		032.05	55	0.78792	0.03948	0.01689	54	0.78806	0.03945	0.01572
Potassium, Misc		032.99	4	0.76808	0.05515	0.02075	4	0.76808	0.05515	0.02075
Method Group 032.XX PCT			91	0.78225	0.04398	0.01641	90	0.78227	0.04402	0.01571
Salt, Sol Cl	943.01	033.00	20	0.39879	0.02386	0.01200	20	0.39879	0.02386	0.01200
Salt, Poten Cl	969.10	033.01	32	0.42635	0.02389	0.00820	31	0.42785	0.02244	0.00717
Salt, Quantab		033.03	8	0.43119	0.04552	0.02462	8	0.43119	0.04552	0.02462
Salt, Ion Sel Electrode		033.05	1	0.42000	0.01414	0.02000	1	0.42000	0.01414	0.02000
Salt, Misc		033.99	7	0.35093	0.03123	0.00700	6	0.35192	0.03323	0.00317
Method Group 033.XX PCT			68	0.41096	0.03655	0.01130	66	0.41243	0.03583	0.01058
Selenium, Fluor	969.06	034.01	1	0.37900	0.01838	0.02600	1	0.37900	0.01838	0.02600
Selenium, AA, Hydride		034.04	7	0.40136	0.06801	0.01357	7	0.40136	0.06801	0.01357
Selenium, ICP		034.05	1	0.43200	0.01697	0.02400	1	0.43200	0.01697	0.02400
Selenium, Misc		034.99	3	0.36555	0.03809	0.05019	3	0.36555	0.03809	0.05019
Method Group 034.XX PPM			12	0.39310	0.05784	0.02463	12	0.39310	0.05784	0.02463
Sodium, AA		035.00	25	0.14217	0.00879	0.00522	25	0.14217	0.00879	0.00522
Sodium, Ion Sel Electrode		035.01	3	0.15740	0.00578	0.00320	3	0.15740	0.00578	0.00320
Sodium, ICP		035.03	50	0.13719	0.01010	0.00494	48	0.13687	0.00992	0.00431
Sodium, Flame Emission	956.01	035.05	11	0.14655	0.01382	0.00527	10	0.14520	0.01341	0.00380
Sodium, Misc		035.99	2	0.13930	0.00095	0.00060	2	0.13930	0.00095	0.00060
Method Group 035.XX PCT			91	0.14040	0.01098	0.00490	88	0.14008	0.01076	0.00439
Sulfur, ICP		036.03	19	0.21920	0.01091	0.00432	18	0.21879	0.01089	0.00361

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Sulfur, LECO		036.04	2	0.21250	0.00957	0.00500	2	0.21250	0.00957	0.00500
Method Group 036.XX PCT			21	0.21856	0.01087	0.00438	20	0.21816	0.01082	0.00375
Zinc, AA	968.08	037.01	25	74.7784	4.37439	1.90116	24	74.8734	4.38157	1.68871
Zinc, ICP, Dry Ash	968.08	037.03	27	72.0338	4.55586	2.05537	26	72.1313	4.56376	1.86519
Zinc, ICP, Wet Ash	968.08	037.05	30	75.4024	5.87179	2.98193	29	75.3439	5.87877	2.71234
Zinc, Misc		037.99	5	71.0436	6.36187	4.50112	5	71.0436	6.36187	4.50112
Method Group 037.XX PPM			87	73.9272	5.31096	2.47112	84	73.9591	5.31003	2.26414
Molybdenum, ICP		038.00	6	1.43700	0.05844	0.05200	6	1.43700	0.05844	0.05200
Molybdenum, Misc		038.99	1	1.90000	0.00000	0.00000	1	1.90000	0.00000	0.00000
Method Group 038.XX PPM			7	1.50314	0.17652	0.04457	7	1.50314	0.17652	0.04457
Nickel, AA		039.01	1	1.40000	0.00000	0.00000	1	1.40000	0.00000	0.00000
Nickel, ICP		039.02	4	1.71381	0.22988	0.22213	4	1.71381	0.22988	0.22213
Method Group 039.XX PPM			5	1.65105	0.24209	0.17770	5	1.65105	0.24209	0.17770
Barium, ICP		040.00	1	3.52000	0.16971	0.24000	1	3.52000	0.16971	0.24000
Vanadium, ICP		041.00	4	1.62550	0.14226	0.11750	4	1.62550	0.14226	0.11750
Method Group 041.XX PPM			4	1.62550	0.14226	0.11750	4	1.62550	0.14226	0.11750
Amprolium, Color	961.24	045.00	7	0.01052	0.00064	0.00016	7	0.01052	0.00064	0.00016
Amprolium, HPLC		045.02	10	0.01072	0.00103	0.00047	11	0.01100	0.00132	0.00044
Method Group 045.XX PCT			17	0.01064	0.00088	0.00034	17	0.01064	0.00088	0.00034
Erythromycin, Misc		055.99	1	4.56600	0.14991	0.21200	1	4.56600	0.14991	0.21200
Choline Chloride, Chem		101.01	1	708.500	19.0919	27.0000	1	708.500	19.0919	27.0000
Choline Chloride, Misc		101.99	1	426.500	6.36396	9.00000	1	426.500	6.36396	9.00000
Method Group 101.XX MG/LB			2	567.500	163.227	18.0000	2	567.500	163.227	18.0000
Niacin, Chem	961.14	102.00	1	27.9900	1.06066	1.50000	1	27.9900	1.06066	1.50000
Niacin, Micro	944.13	102.01	1	23.6500	1.06066	1.50000	1	23.6500	1.06066	1.50000
Method Group 102.XX MG/LB			2	25.8200	2.65114	1.50000	2	25.8200	2.65114	1.50000
Pantothenic Acid, Microbiological	945.74	103.01	1	7.01500	0.16263	0.23000	1	7.01500	0.16263	0.23000
Riboflavin, Fluorometric	970.65	104.00	3	4.83167	0.76570	0.21667	3	4.83167	0.76570	0.21667
Riboflavin, HPLC		104.03	2	3.59808	0.69525	0.02095	2	3.59808	0.69525	0.02095
Method Group 104.XX MG/LB			5	4.33823	0.94480	0.13838	5	4.33823	0.94480	0.13838
Thiamine, HPLC		105.00	3	3.82500	2.41988	0.03667	3	3.82500	2.41988	0.03667
Thiamine,	942.23	105.01	1	3.34000	0.29698	0.42000	1	3.34000	0.29698	0.42000
Method Group 105.XX MG/LB			4	3.70375	2.06052	0.13250	4	3.70375	2.06052	0.13250
Vitamin A, Color	974.29	106.00	2	6.23500	1.94197	0.42000	2	6.23500	1.94197	0.42000
Vitamin A, HPLC		106.02	16	4.80543	1.39820	0.74864	15	4.69469	1.24468	0.50355
Vitamin A, Misc		106.99	1	3.05000	0.35355	0.50000	1	3.05000	0.35355	0.50000
Method Group 106.XX KU/LB			19	4.86352	1.52681	0.70096	18	4.77446	1.42465	0.49407
Vitamin B12,	952.20	107.00	1	11.2500	1.34350	1.90000	1	11.2500	1.34350	1.90000
Vitamin D3, HPLC	982.29	108.01	1	0.15500	0.02121	0.03000	1	0.15500	0.02121	0.03000

- Pass 1 Results for 215 Labs - - Pass 2 Results for 214 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Vitamin D3, HPLC		108.02	2	9.73000	9.03009	0.13000	2	9.73000	9.03009	0.13000
Method Group 108.XX KU/LB			3	6.53833	8.56585	0.09667	3	6.53833	8.56585	0.09667
Vitamin E, HPLC		109.02	10	37.2322	4.84020	1.30930	9	37.0191	4.96780	0.79922
Vitamin E, Misc		109.99	1	42.5000	3.53553	5.00000	1	42.5000	3.53553	5.00000
Method Group 109.XX MG/KG			11	37.7110	4.91876	1.64482	10	37.5672	5.05817	1.21930
Pyridoxine, (Vitamin B6)	961.15	112.00	2	1523.94	1683.68	16.1800	2	1523.94	1683.68	16.1800
Method Group 112.XX MCG/G			2	1523.94	1683.68	16.1800	2	1523.94	1683.68	16.1800
Folic Acid,	944.12	113.01	1	1.56000	0.33941	0.48000	1	1.56000	0.33941	0.48000
Biotin, Microbiological		114.01	2	0.17725	0.07911	0.00850	2	0.17725	0.07911	0.00850
Method Group 114.XX MG/KG			2	0.17725	0.07911	0.00850	2	0.17725	0.07911	0.00850
Alanine, Post-col Ninhydrin Der	994.12	120.00	11	0.94050	0.03721	0.02064	9	0.93789	0.03556	0.00978
Alanine, Pre-col AQC Der		120.05	1	0.98500	0.00707	0.01000	1	0.98500	0.00707	0.01000
Method Group 120.XX PCT			12	0.94421	0.03774	0.01975	10	0.94260	0.03667	0.00980
Arginine, Post-col Ninhydrin Der	994.12	121.00	12	1.10328	0.02693	0.02243	12	1.10328	0.02693	0.02243
Arginine, Pre-col AQC Der		121.05	1	1.17000	0.00000	0.00000	1	1.17000	0.00000	0.00000
Method Group 121.XX PCT			13	1.10841	0.03156	0.02070	13	1.10841	0.03156	0.02070
Aspartic, Post-col Ninhydrin Der	994.12	122.00	12	1.57419	0.07918	0.03365	11	1.56098	0.06530	0.02480
Aspartic, Pre-col AQC Der		122.05	1	1.62500	0.00707	0.01000	1	1.62500	0.00707	0.01000
Method Group 122.XX PCT			13	1.57810	0.07720	0.03183	12	1.56632	0.06498	0.02357
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	10	0.31085	0.02375	0.01090	9	0.30689	0.02037	0.00756
Cysteine/Cystine, PAO Post-col OPA Der		124.02	2	0.29200	0.00627	0.00600	2	0.29200	0.00627	0.00600
Method Group 124.XX PCT			12	0.30771	0.02286	0.01008	11	0.30418	0.01939	0.00727
Glutamic, Post-col Ninhydrin Der	994.12	125.00	13	3.12800	0.09387	0.06232	11	3.13463	0.08550	0.03237
Glutamic, Pre-col AQC Der		125.05	1	3.26000	0.00000	0.00000	1	3.26000	0.00000	0.00000
Method Group 125.XX PCT			14	3.13742	0.09674	0.05786	12	3.14508	0.08904	0.02967
Glycine, Post-col Ninhydrin Der	994.12	126.00	13	0.74700	0.02868	0.01787	12	0.74520	0.02765	0.01411
Glycine, Pre-col AQC Der		126.05	1	0.79000	0.00000	0.00000	1	0.79000	0.00000	0.00000
Method Group 126.XX PCT			14	0.75007	0.02982	0.01659	13	0.74865	0.02918	0.01302
Histidine, Post-col Ninhydrin Der	994.12	127.00	13	0.47115	0.03327	0.00874	12	0.46728	0.03134	0.00705
Histidine, Pre-col AQC Der		127.05	1	0.50500	0.00707	0.01000	1	0.50500	0.00707	0.01000
Method Group 127.XX PCT			14	0.47356	0.03325	0.00883	13	0.47018	0.03179	0.00728
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	13	0.64965	0.05687	0.01915	11	0.64723	0.05940	0.01027
Isoleucine, Pre-col AQC Der		128.05	1	0.77000	0.00000	0.00000	1	0.77000	0.00000	0.00000
Method Group 128.XX PCT			14	0.65825	0.06317	0.01779	12	0.65746	0.06650	0.00942
Leucine, Post-col Ninhydrin Der	994.12	129.00	13	1.52754	0.04661	0.02555	12	1.52608	0.04549	0.01852
Leucine, Pre-col AQC Der		129.05	1	1.59000	0.00000	0.00000	1	1.59000	0.00000	0.00000
Method Group 129.XX PCT			14	1.53200	0.04775	0.02373	13	1.53100	0.04697	0.01709
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	17	0.89163	0.02873	0.02182	17	0.89163	0.02873	0.02182
L-Lysine, Pre-col OPA Der		130.01	1	0.94500	0.00707	0.01000	1	0.94500	0.00707	0.01000

Feed Check Sample No. - 200921 Chicken Starter/Grower, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 215 Labs - - Pass 2 Results for 214 Labs -

Method	AOAC 18th	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
L-Lysine, Pre-col AQC Der		130.05	1	0.90500	0.00707	0.01000	1	0.90500	0.00707	0.01000
Method Group 130.XX PCT			19	0.89514	0.02983	0.02057	19	0.89514	0.02983	0.02057
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	12	0.31493	0.02884	0.00678	12	0.31493	0.02884	0.00678
Methionine, PAO Pre-col OPA Der		131.01	1	0.33500	0.00707	0.01000	1	0.33500	0.00707	0.01000
Methionine, PAO Post-col OPA Der		131.02	2	0.33200	0.01560	0.00100	2	0.33200	0.01560	0.00100
Methionine, PAO Pre-col AQC Der		131.05	1	0.28500	0.00707	0.01000	1	0.28500	0.00707	0.01000
Methionine, Misc		131.99	1	0.26000	0.00000	0.00000	1	0.26000	0.00000	0.00000
Method Group 131.XX PCT			17	0.31312	0.02997	0.00608	17	0.31312	0.02997	0.00608
Phenylalanine, Post-col Ninhydrin Der .	994.12	132.00	13	0.83658	0.03342	0.01913	13	0.83658	0.03342	0.01913
Phenylalanine, Pre-col AQC Der		132.05	1	0.88000	0.00000	0.00000	1	0.88000	0.00000	0.00000
Method Group 132.XX PCT			14	0.83968	0.03412	0.01776	14	0.83968	0.03412	0.01776
Proline, Post-col Ninhydrin Der	994.12	133.00	11	1.10248	0.07233	0.02794	11	1.10248	0.07233	0.02794
Proline, Pre-col AQC Der		133.05	1	1.22500	0.00707	0.01000	1	1.22500	0.00707	0.01000
Method Group 133.XX PCT			12	1.11269	0.07730	0.02644	12	1.11269	0.07730	0.02644
Serine, Post-col Ninhydrin Der	994.12	134.00	12	0.82115	0.04524	0.02274	12	0.82115	0.04524	0.02274
Serine, Pre-col AQC Der		134.05	1	0.86000	0.01414	0.02000	1	0.86000	0.01414	0.02000
Method Group 134.XX PCT			13	0.82414	0.04475	0.02253	13	0.82414	0.04475	0.02253
Threonine, Post-col Ninhydrin Der	994.12	135.00	12	0.63029	0.02163	0.01370	12	0.63029	0.02163	0.01370
Threonine, Pre-col AQC Der		135.05	1	0.68000	0.00000	0.00000	1	0.68000	0.00000	0.00000
Method Group 135.XX PCT			13	0.63412	0.02475	0.01265	13	0.63412	0.02475	0.01265
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.20300	0.00141	0.00200	1	0.20300	0.00141	0.00200
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	4	0.21138	0.00646	0.00325	4	0.21138	0.00646	0.00325
Tryptophan, Misc		136.99	2	0.20500	0.01763	0.00400	2	0.20500	0.01763	0.00400
Method Group 136.XX PCT			7	0.20836	0.01038	0.00329	7	0.20836	0.01038	0.00329
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	8	0.60245	0.07084	0.01742	8	0.60245	0.07084	0.01742
Tyrosine, Pre-col AQC Der		137.05	1	0.48000	0.00000	0.00000	1	0.48000	0.00000	0.00000
Method Group 137.XX PCT			9	0.58884	0.07744	0.01549	9	0.58884	0.07744	0.01549
Valine, Post-col Ninhydrin Der	994.12	138.00	12	0.80966	0.04937	0.00810	11	0.81099	0.05124	0.00611
Valine, Pre-col AQC Der		138.05	1	0.87000	0.00000	0.00000	1	0.87000	0.00000	0.00000
Method Group 138.XX PCT			13	0.81430	0.05011	0.00748	12	0.81591	0.05172	0.00560
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.06500	0.00707	0.01000	1	0.06500	0.00707	0.01000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 000.99	--	--	Method 001.07	--	--	Method 001.99	--	--	Method 002.02	--	--	Method 002.05	--
265	0.1300	.71	049	10.790	.41	787	10.750	.19	043	18.445	1.75	663	17.175	-.88
			139	10.885	.28	853	10.675	.18	307	17.700 R	.67	722	17.171	-.94
--	Method 001.00	--	843	10.870	.26	631	10.710	.12	152	17.850	.44	674	17.210 R	-1.06
504	11.770	1.67	849	10.875	.25	676	10.677	.06	669	17.665	.14	621	17.125	-1.18
001	11.420	1.02	693	10.865	.24	Avg	10.642		Avg	17.661		620	17.057	-1.64
169	11.190	.60	089	10.865	.23	722	10.474	-.27	036	17.558	-.23	622	17.044	-1.72
183	11.170	.56	187	10.835	.17	665	10.440	-.32	042	17.375	-.65			
783	10.980	.35	Avg	10.768		729	10.075	-.93	169	17.070	-1.33	--	Method 002.06	--
Avg	10.867		679	10.750	-.13	720	10.285 R	-.96				645	19.400 s	5.52
844	10.750	-.22	345	10.675	-.23	615	9.9700	-1.11	--	Method 002.03	--	043	18.965 s	4.16
309	10.675	-.40	015	10.700	-.27	630	9.9200	-1.16	536	15.810 S	.00	539	18.695 s	3.62
732	10.345	-.97	845	10.665	-.29	536	9.6840	-1.54	681	17.080	.00	616	18.770 A	3.54
029	10.340	-1.14	669	10.610	-.39	541	9.6550	-1.59	Avg	17.080		018	18.755 s	3.52
560	10.450 R	-1.43	675	10.590	-.42							647	18.285	2.11
509	10.030	-1.55	048	10.560	-.51	--	Method 002.00	--	--	Method 002.04	--	732	18.280	1.99
			045	10.475	-.70	845	17.730	.88	504	17.650	1.61	574	18.250	1.93
--	Method 001.03	--	098	10.750 R	-.83	199	17.715	.85	405	17.345	.44	098	18.250	1.91
567	11.100	.80	591	10.385	-.92	015	17.510	.37	Avg	17.291		737	18.225	1.82
688	11.000	.56	353	10.380	-.94	679	17.440	.20	187	17.280	-.10	185	18.185	1.73
Avg	10.882		178	10.700 R	-.96	Avg	17.365		043	17.145	-.65	781	18.190	1.71
686	10.545	-1.24	171	10.360	-.98	028	17.235	-.31	509	17.035	-1.13	511	18.180	1.68
			038	10.415	-1.02	826	16.560	-1.93	728	15.440 S	-8.15	763	18.170	1.65
--	Method 001.05	--	278	10.220	-1.31							527	18.060	1.35
610	9.7200	.71	074	9.9300	-1.99	--	Method 002.01	--	--	Method 002.05	--	345	18.070	1.33
			177	9.6750	-2.60	607	17.511	1.18	852	18.250 s	6.58	660	18.030	1.31
--	Method 001.07	--	014	9.7745 s	-2.60	710	17.510	1.17	178	17.500	1.39	859	18.052	1.28
142	11.900	2.70	618	8.1698 s	-6.46	672	17.430	.53	039	17.474	1.22	004	18.015	1.17
366	11.300 R	1.58				653	17.415	.43	849	17.435	.95	014	18.005	1.15
307	11.000 R	1.31	--	Method 001.08	--	652	17.400	.29	354	17.425	.88	843	18.000	1.12
581	11.280	1.22	590	11.030	-.71	350	17.370	.15	194	17.420	.85	032	18.000	1.11
559	11.245	1.13				Avg	17.363		855	17.405	.80	142	18.000	1.11
199	11.175	.97	--	Method 001.99	--	860	17.345	-.19	552	17.390	.67	013	17.980	1.10
571	11.165	.94	405	12.105	2.35	098	17.350	-.41	179	17.352	.67	037	17.990	1.08
588	11.130	.86	096	11.350	1.16	848	17.150	-1.71	177	17.355	.47	529	17.980	1.05
607	11.084	.75	681	11.110	.77	716	17.150	-1.74	591	17.360	.44	670	17.975	1.03
413	11.000	.60	672	11.085	.72				Avg	17.296		074	17.955	.99
616	11.015	.59	656	11.050	.66				658	17.221	-.51	646	17.945	.97
083	11.000	.56	505	11.020	.62				651	17.209	-.61	505	17.765 R	.94
035	10.985	.52	619	10.800	.25				083	17.210	-.62	233	17.930	.89

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 002.06	--	--	Method 002.06	--	--	Method 002.06	--	--	Method 002.08	--	--	Method 003.00	--
686	17.910	.84	695	17.670	.20	693	17.370	-.88	563	16.936	-1.06	035	4.8000 S	3.28
739	17.840	.81	610	17.650	.16	029	17.410	-.88				190	4.4700 S	2.14
413	17.800	.79	160	17.650	.09	615	17.400	-.89	--	Method 002.10	--	563	4.3970	1.80
630	17.885	.75	096	17.675	.09	108	17.365	-.90	629	17.860	2.05	300	4.2550 R	1.60
853	17.875	.74	051	17.675	.09	692	17.355	-.92	729	17.545 R	1.15	307	4.3000	1.44
712	17.715	.68	036	17.650	.06	038	17.350	-.94	727	17.625	1.10	309	4.1900	1.05
002	17.860	.67	787	17.650	.03	168	17.350	-.95	631	17.475	.30	179	4.1840	1.02
673	17.850	.66	Avg	17.647		242	17.345	-.96	546	17.445	.29	175	4.1000	.80
830	17.770	.64	033	17.645	-.02	618	17.367	-1.02	Avg	17.414		033	4.1200	.78
294	17.825	.56	089	17.645	-.02	626	17.310	-1.06	675	17.335	-.36	015	4.1200	.78
138	17.815	.54	298	17.640	-.04	045	17.300	-1.14	619	17.300	-.52	106	4.1050	.76
019	17.800	.53	588	17.645	-.11	857	17.325 R	-1.26	121	17.297	-.57	032	4.1050	.72
795	17.805	.50	819	17.600	-.15	278	17.250	-1.26	160	17.240	-.82	354	4.0400	.49
164	17.800	.49	144	17.615	-.17	510	17.250	-1.26	688	17.150	-1.23	039	4.0050	.37
672	17.800	.48	571	17.621	-.17	016	17.300	-1.26				164	3.9800	.27
520	17.790	.48	354	17.585	-.20	816	17.250	-1.34	--	Method 002.11	--	048	3.9700	.23
366	17.650	.47	202	17.580	-.25	358	17.225	-1.42	032	19.500 S	6.16	848	3.9400	.19
590	17.725	.46	021	17.555	-.29	674	17.250 R	-1.48	048	19.495 S	6.14	Avg	3.9080	
720	17.720	.44	010	17.605	-.33	047	17.400 R	-1.48	665	19.215 S	5.26	509	3.9000	-.03
035	17.780	.44	199	17.565	-.35	179	17.185	-1.51	178	18.500 S	3.18	017	3.8600	-.18
776	17.755	.43	017	17.515	-.42	009	17.165	-1.52	672	18.040	1.42	345	3.8400	-.25
034	17.780	.42	026	17.510	-.43	559	17.145	-1.58	688	18.000	1.28	194	3.8350	-.27
190	17.775	.42	656	17.500	-.48	139	17.125	-1.64	631	17.755	.49	265	3.8000	-.40
001	17.770	.40	650	17.585	-.50	407	17.125	-1.64	011	17.650	.22	337	3.7900	-.44
592	17.700	.38	205	17.490	-.50	265	17.115	-1.68	Avg	17.605		026	3.7500	-.58
263	17.761	.38	106	17.530	-.51	353	17.110	-1.69	727	17.467	-.56	726	3.7360	-.63
171	17.700	.36	598	17.495	-.52	100	17.075	-1.80	553	17.345	-.85	353	3.7150	-.71
175	17.700	.36	541	17.470	-.57	226	17.000	-2.06	588	17.385	-.89	152	3.6500	-.97
425	17.755	.34	589	17.465	-.58	676	16.991	-2.07	724	17.600 R	-.97	615	3.7550 R	-.97
726	17.754	.34	825	17.450	-.64	758	16.955	-2.18	567	17.200	-1.31	616	3.5350	-1.37
042	17.690	.31	619	17.450	-.64	337	16.875	-2.43				132	3.3350	-2.11
148	17.740	.30	567	17.450	-.64	309	16.640 A	-3.17	--	Method 002.99	--	527	3.2150	-2.55
003	17.740	.30	132	17.415	-.75	794	15.865 s	-9.71	643	17.980	1.23	142	2.5000 s	-5.17
573	17.740	.29	508	17.478	-.76				065	17.765	.38			
810	17.740	.29	027	17.390	-.81	--	Method 002.08	--	Avg	17.668		--	Method 003.01	--
682	17.720	.23	011	17.600 R	-.83	610	18.350	1.37	305	17.665	-.53	504	3.5000	.71
417	17.680	.22	512	17.385	-.83	062	17.747	.34	724	17.450	-.85			
783	17.685	.21	229	17.380	-.84	Avg	17.558		613	17.480	-1.35			
006	17.672	.21	504	17.640 R	-.85	208	17.200	-.61						

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 003.04 --			-- Method 003.09 --			-- Method 003.10 --			-- Method 003.12 --			-- Method 003.99 --		
681	4.2000	.71	029	3.9650	.61	Avg	3.8293		670	4.7700 S	6.01	710	3.5900	-1.50
			002	3.9600	.59	100	3.8150	-.13	Avg	3.9200		787	3.5500	-1.71
-- Method 003.06 --			860	3.9450	.53	728	3.8250	-.22	171	3.9200	-.71	546	3.5750 R	-1.89
588	4.9700 s	5.18	651	3.9090	.20	573	3.8060	-.25	-- Method 003.13 --			613	3.1150 S	-3.84
074	4.3300	2.13	354	3.9050	.17	034	3.7900	-.33	028	4.2650	1.42	-- Method 004.00 --		
688	4.3000	2.02	121	3.9050	.17	098	3.8100	-.38	Avg	4.0035		353	4.6550 s	6.66
852	4.0100 R	1.09	038	3.8850	.11	208	3.7650	-.55	205	3.9340	-.45	511	3.5500	2.21
169	4.0700	1.00	350	3.8890	.06	160	3.7750	-.55	660	3.9900	-.55	647	3.4450 R	2.15
229	4.0150	.76	Avg	3.8820		676	3.7540	-.67	187	3.8250	-1.00	190	3.4250 R	1.82
294	3.9850	.63	027	3.8550	-.20	607	3.7389	-.77	-- Method 003.14 --			265	3.3050	1.23
559	3.8650	.50	630	3.8400	-.32	629	3.7950	-.78	520	4.0900	1.83	171	3.3050	1.23
574	3.8650	.42	358	3.8700	-.38	089	3.7100	-1.02	108	3.8800	1.08	509	3.3000	1.20
669	3.9250	.40	263	3.8233	-.43	695	3.6950	-1.15	581	4.0000	.98	345	3.2750	1.11
511	3.8750	.19	675	3.8050	-.57	298	3.6800	-1.27	407	3.9800	.89	337	3.1900	.82
Avg	3.8381		656	3.8600 R	-.75	045	3.8100 R	-1.46	278	3.9500	.79	559	3.1600	.65
148	3.8150	-.10	183	3.7750	-.78	598	3.6750	-1.46	413	3.9500	.79	169	3.1450	.60
199	3.8000	-.18	001	3.7600	-.90	242	3.6350	-1.68	144	3.8600	.40	309	3.1050	.55
552	3.7800	-.30	653	3.7550	-.93	720	3.3100 s	-4.65	021	3.8050	.18	208	3.0950	.41
009	3.7850	-.39	590	3.7500 R	-1.21	679	3.1150 s	-6.09	Avg	3.7694		425	3.1000	.41
647	3.7950	-.41	013	3.6750	-1.52	-- Method 003.11 --			529	3.7050	-.27	226	3.0500	.29
425	3.7350	-.44	674	3.6700	-1.66	665	4.4600 S	3.03	567	3.7000	-.29	563	3.0659	.28
682	3.7300	-.46	004	3.5300	-2.59	553	4.3150	2.20	686	3.7000	-.42	726	3.0483	.21
305	3.7300	-.46	-- Method 003.10 --			048	4.1050	1.22	019	3.6800	-.97	034	3.0100	.07
621	3.7000	-.59	591	5.1950 s	12.68	178	4.0500 R	1.19	185	3.5350	-1.06	Avg	2.9970	
083	3.7000	-.73	618	4.7757 s	8.26	567	3.9000	.26	175	3.5600	-1.17	009	2.9400	-.23
185	3.4450	-1.75	727	4.1240 s	7.71	727	3.8830	.18	051	3.5100	-1.18	194	2.9350	-.25
658	3.3560	-2.08	178	4.4000 s	5.15	Avg	3.8448		853	3.4050	-1.62	354	2.9250	-.29
-- Method 003.09 --			693	4.0400	1.95	032	3.8000	-.21				015	2.9250	-.30
722	4.6644 s	5.77	202	4.0250	1.93	672	3.7700	-.35	-- Method 003.99 --			175	2.8000	-.79
016	4.4150 s	3.91	619	4.0100	1.62	724	3.8000 R	-.51	737	4.1050	1.07	510	2.7500	-1.00
505	4.2150	2.46	233	3.9300	.87	688	3.7000	-.68	631	4.0450	.74	199	2.7400	-1.03
849	4.0200	1.03	623	3.9301	.86	011	3.7000	-.68	646	4.0300	.65	695	2.7400	-1.03
510	4.0000	.86	651	3.9125	.71	588	3.6500	-.94	712	4.0050	.64	132	2.7150	-1.12
673	4.0000	.86	042	3.9050	.65	631	3.6250	-1.04	724	4.0000	.51	298	2.6400	-1.42
098	3.9950	.85	855	3.8950	.63				047	3.9750	.38	504	2.5550	-1.77
620	3.9773	.70	672	3.9000	.60				Avg	3.8963		164	2.5500	-1.79
226	3.9500	.62	062	3.8965	.59				536	3.7670	-.63	048	1.9350 s	-4.22
508	3.9358	.61	366	3.8500	.46									

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 004.01	--	--	Method 004.06	--	--	Method 004.07	--	--	Method 005.00	--	--	Method 005.00	--
693	3.7800	.82	672	2.9000	-1.03	035	2.6950	-.64	592	5.5050 R	1.94	830	5.2700	.65
Avg	3.6550		610	2.7500	-1.54	646	2.6550	-.76	345	5.5200	1.93	164	5.2650	.63
855	3.5300	-.91	591	2.6500	-1.78	013	2.6100	-.89	294	5.4950	1.80	647	5.2000 R	.59
			598	2.4550	-2.42	242	2.6050	-.91	676	5.4805	1.73	651	5.2545	.58
						021	2.6050	-.96	726	5.4517	1.59	845	5.2500	.57
--	Method 004.03	--	--	Method 004.07	--	100	2.5900	-.98	504	5.4100	1.41	621	5.2500	.55
045	3.5200	1.11	407	4.1200 s	3.64	004	2.5350	-1.12	588	5.4000	1.32	675	5.2450	.53
679	3.4750	.43	294	3.6650	2.28	307	2.5000	-1.22	132	5.3950	1.29	045	5.2350	.53
Avg	3.3400		592	3.6050	2.11	567	2.4600	-1.35	629	5.3850	1.25	353	5.2200	.50
619	3.0250	-1.04	096	3.4500	1.69	202	2.3950	-1.55	185	5.3800	1.22	674	5.2350	.48
			089	3.4300	1.57	183	2.3850	-1.60	407	5.3700	1.17	559	5.2050	.43
--	Method 004.06	--	536	3.3250 R	1.56	160	2.2650	-1.93	679	5.3700	1.16	758	5.1900	.39
676	4.3525 s	3.73	669	3.3400	1.31				307	5.3650	1.14	187	5.2150	.37
845	3.8750 R	2.46	610	3.2500	1.13	--	Method 004.11	--	591	5.3650	1.14	622	5.2118	.36
728	3.7550	1.83	631	3.2750	1.11	048	3.7300	1.61	682	5.3600	1.11	739	5.1900	.32
588	3.7450	1.73	185	3.2300	.99	032	3.6000	1.18	672	5.3500	1.09	686	5.2000	.31
552	3.6500	1.43	144	3.1750	.81	727	3.5127	.79	226	5.3500	1.09	202	5.2000	.30
621	3.5550	1.12	278	3.0500	.62	724	3.4200	.49	630	5.3450	1.03	152	5.2000	.29
722	3.5051	.98	028	3.1000	.58	672	3.3950	.34	552	5.3350	.98	083	5.1500	.26
716	3.4500	.80	098	3.0850	.57	178	3.3500	.25	693	5.3100 R	.97	108	5.1650	.26
205	3.3550	.74	019	3.0800	.54	553	3.3250	.12	337	5.3300	.97	848	5.1850	.25
849	3.4250	.71	121	3.0390	.48	Avg	3.3056		710	5.3150	.88	305	5.1850	.25
178	3.3500	.49	686	2.9950	.31	688	3.2500	-.28	712	5.3000	.84	656	5.1900	.25
656	3.3250	.49	682	3.0000	.28	631	3.2650	-.53	619	5.2800 R	.84	660	5.1850	.22
653	3.3050	.32	003	2.9750	.21	567	3.0500	-.99	669	5.3000	.81	038	5.1850	.22
027	3.2550	.32	074	2.9350	.19	011	2.9000	-1.54	688	5.3000	.80	563	5.1750	.21
720	3.2600	.26	581	2.9650	.18	588	2.8700	-1.66	567	5.3000	.80	298	5.1800	.20
848	3.2650	.21	Avg	2.9066					183	5.2900	.76	035	5.1800	.19
038	3.2150	.18	643	2.9050	-.11	--	Method 004.99	--	729	5.2900	.76	034	5.1450	.18
Avg	3.2057		033	2.8650	-.13	613	3.7650	1.28	350	5.2910	.76	354	5.1500	.06
670	3.1850	-.07	708	2.8600	-.14	Avg	2.9767		695	5.2900	.75	Avg	5.1426	
098	3.1850	-.16	229	2.8400	-.22	629	2.7000	-.45	646	5.2850	.75	505	5.1200	-.12
354	3.1550	-.17	026	2.8500	-.23	724	2.4650	-.81	590	5.2850	.73	048	5.1100	-.17
673	3.1500	-.24	042	2.8500	-.27				229	5.2850	.73	242	5.1000	-.22
675	3.1850	-.34	032	2.8550	-.32	--	Method 005.00	--	783	5.2800	.71	763	5.0950	-.26
710	3.0650	-.45	505	2.7950	-.37	265	6.1450 s	5.20	852	5.1750 R	.71	855	5.1150	-.27
350	3.0222	-.59	413	2.8000	-.44	527	5.9200 s	3.98	062	5.2780	.69	816	5.0900	-.27
620	2.9785	-.73	520	2.7600	-.44	720	5.5900	2.29	643	5.2750	.68	098	5.1350	-.28
688	2.9500	-.84	529	2.7550	-.46	413	5.5500	2.10	004	5.2700	.65	144	5.0900	-.29
590	2.9200	-.92												

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 005.00	--	--	Method 005.00	--	--	Method 005.99	--	--	Method 008.08	--	--	Method 009.07	--
631	5.0850	-.30	541	4.8500	-1.54	208	4.8600	-1.19	035	4.0200	-.11	187	9.4400	-2.09
300	5.0850	-.44	160	4.8250	-1.62	065	4.8325	-1.30	581	4.0350	-.30			
358	5.0950	-.45	776	4.8200	-1.65	613	4.6700	-1.98	160	3.9200	-.34	--	Method 009.09	--
171	5.0850	-.48	417	4.8100	-1.70	826	1.3500	s -15.72	354	3.8750	-.41	592	13.520	2.40
819	5.0400	-.53	049	4.8050	-1.73				164	3.7500	-.66	510	12.700	1.34
021	5.1100	R -.54	615	4.8050	-1.75	--	Method 008.02	--	536	3.6920	-.77	354	12.450	1.02
178	5.0500	-.54	732	4.8000	-1.75	226	5.5500	2.30	185	3.5700	-1.01	294	12.315	.85
366	5.0500	-.54	169	4.7550	-1.99	148	5.0550	1.27	294	3.4400	-1.27	265	12.100	.63
645	5.0500	-.54	425	4.7100	-2.21	405	4.9300	1.02	004	3.4100	-1.34	202	11.690	.09
849	5.0250	-.60	309	4.6900	-2.35	728	4.7250	R .74	686	3.2000	-1.76	Avg	11.651	
138	5.0250	-.61	618	4.3729	s -4.11	045	4.7400	.63				413	11.600	-.06
089	5.0200	-.63				171	4.6850	.53	--	Method 008.99	--	106	11.575	-.18
175	5.0200	-.63	--	Method 005.02	--	187	4.6650	.47	613	6.2750	S 5.58	581	11.525	-.19
205	5.0100	-.68	610	5.3750	.71	179	4.4868	.14	646	4.6100	1.07	164	11.200	-.58
620	5.0125	-.69				Avg	4.4391		656	4.5250	1.04	160	11.135	-.66
623	5.0117	-.69	--	Method 005.11	--	527	4.2450	-.41	Avg	4.2550		686	11.050	-.86
121	5.0050	-.71	688	5.5500	1.26	083	4.2000	-.54	358	4.1400	-.37	536	10.960	-.93
015	5.0050	-.71	178	5.4500	R 1.05	309	4.0950	-.71	307	4.2500	-.41	185	10.865	-1.02
199	5.0000	-.74	588	5.4050	.81	353	4.0950	-.72	610	3.7500	-1.40	037	10.875	-1.02
194	4.9950	-.76	672	5.3200	.56	675	4.0900	-.73				278	10.850	-1.12
795	5.0200	R -.78	665	5.1950	.18	619	3.9950	-.92	--	Method 009.04	--			
148	4.9900	-.78	Avg	5.1370		098	3.9300	-1.08	726	14.871	.64	--	Method 009.99	--
781	4.9900	-.79	631	5.1150	-.07	726	3.8245	-1.28	Avg	14.288		610	18.450	S 1.90
658	4.9900	-.80	048	4.7800	-1.08				504	13.705	-1.04	619	17.550	S 1.52
278	4.9900	-.81	727	4.5938	-1.65	--	Method 008.05	--				613	15.110	.54
100	4.9750	-.86	724	3.7250	S -4.30	265	5.0000	.71	--	Method 009.07	--	Avg	12.845	
670	4.9550	-.97							675	14.120	1.66	728	13.470	-.14
510	4.9500	-1.00	--	Method 005.99	--	--	Method 008.08	--	656	13.345	1.07	646	11.615	-.88
142	4.9500	-1.02	727	5.4400	1.22	106	5.0250	1.92	083	13.100	.85	643	11.185	-1.05
520	4.9450	-1.03	728	5.2850	R 1.20	510	4.8500	1.60	226	12.750	.58			
027	4.9300	-1.10	652	5.4000	1.13	592	4.8000	1.47	045	12.650	.50	--	Method 010.03	--
598	4.9150	-1.17	673	5.3000	.64	413	4.5000	.95	179	12.570	.48	843	10.850	1.08
033	4.9050	-1.21	716	5.3000	.64	037	4.4000	.70	307	12.050	.12	027	9.9900	.04
539	4.9050	-1.23	546	5.2600	.49	026	4.2150	.54	Avg	12.048		Avg	9.9611	
650	4.8900	-1.29	574	5.1550	.48	033	4.3200	.50	309	11.855	-.22	618	9.0433	-1.16
179	4.8815	-1.34	096	5.2000	.47	278	4.1500	.34	663	11.580	-.40	826	9.0000	S -1.37
810	4.8550	-1.47	536	5.2400	.41	693	4.1200	.30	353	11.390	-.53	546	7.9200	S -2.48
853	4.8500	-1.50	Avg	5.1460		202	4.1500	.19	693	11.370	-.64			
616	4.8500	-1.50	681	5.0950	-.22	Avg	4.0721		098	10.400	-1.32			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.11	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 011.99	--	--	Method 012.11	--
588	11.650	1.23	121	11.995	1.36	722	11.503	-.29	857	11.900	.99	672	41.325	.71
688	11.400	.52	242	11.970	1.28	645	11.500	-.29	Avg	11.700		Avg	40.813	
672	11.340	.37	739	11.935	1.22	794	11.531	-.30	646	11.500	-.72	178	40.300	-1.00
724	11.310	.30	559	11.940	1.18	682	11.480	-.36	727	8.3250 S	-11.81			
631	11.275	.17	848	11.930	1.16	511	11.470	-.39				--	Method 012.99	--
Avg	11.218		737	11.915	1.09	034	11.470	-.39	--	Method 012.00	--	619	50.200 S	7.73
567	11.050	-.50	520	11.900	1.04	843	11.520	-.40	178	44.400	1.76	588	40.180	.86
178	10.850 R	-1.26	407	11.885	.99	650	11.485	-.47	048	43.610	.93	Avg	38.924	
727	10.499	-2.05	354	11.875	.96	598	11.445	-.48	567	42.400	.45	722	37.669	-.87
			305	11.715 R	.92	563	11.420	-.57	354	42.690	.25			
--	Method 010.99	--	233	11.815	.80	810	11.415	-.58	Avg	42.356		--	Method 013.02	--
417	11.220 R	1.74	653	11.805	.72	021	11.380	-.70	559	42.200	-.19	794	5.3950	1.71
716	11.200	1.36	758	11.795	.72	710	11.355	-.78	716	42.100	-.35	826	5.4000	1.70
673	11.100	1.08	208	11.800	.71	622	11.320	-.90	672	40.950	-1.09	202	5.3750	1.63
652	10.900 R	.98	816	11.800	.71	179	11.313	-.92	673	40.500	-1.39	810	5.2100	1.12
726	11.016	.86	202	11.760	.61	298	11.310	-.93				763	5.1850	1.05
724	10.955	.68	300	11.690	.61	660	11.330	-.95	--	Method 012.01	--	171	5.1250	.92
529	10.900	.55	670	11.760	.58	098	11.300	-.96	686	40.570	1.13	643	5.0850	.82
337	10.890	.51	825	11.750	.57	781	11.299	-.97	Avg	40.163		645	5.1000	.78
613	10.800	.38	643	11.750	.57	358	11.445 R	-.98	185	39.755	-.48	795	5.0800	.72
037	10.790	.25	160	11.755	.56	830	11.235	-1.18				830	5.0300	.61
695	10.765	.19	132	11.610	.47	294	11.220	-1.23	--	Method 012.02	--	816	5.0000	.56
Avg	10.706		350	11.725	.46	552	11.200	-1.29	202	38.150	.71	033	4.9700	.38
621	10.455	-.69	164	11.720	.44	728	11.200	-1.33				164	4.9150	.21
852	10.470	-.76	539	11.715	.44	033	11.225	-1.33	--	Method 012.03	--	843	4.9150	.21
065	10.429	-.77	795	11.715	.43	185	11.255 R	-1.36	098	42.700	-.71	825	4.8500	.15
168	10.240	-1.28	623	11.602	.39	171	11.160	-1.47				Avg	4.8482	
527	9.8800	-2.27	573	11.700	.37	062	11.149	-1.47	--	Method 012.04	--	139	4.8150	-.10
712	9.0350 s	-4.63	674	11.595	.28	574	11.130	-1.54	106	43.300	1.61	354	4.8200	-.11
			510	11.650	.27	658	11.028	-1.88	160	41.970	.91	616	4.8100	-.13
--	Method 011.01	--	651	11.642	.25	859	10.921	-2.23	Avg	40.231		853	4.7600	-.33
205	12.180 R	2.25	763	11.650	.22	004	10.725	-2.88	038	39.625	-.32	739	4.7400	-.50
175	12.100 R	1.83	138	11.625	.15	108	10.755 s	-3.17	510	39.600	-.35	675	4.7000	-.50
148	12.075	1.63	620	11.622	.12	855	10.595 A	-3.32	278	38.850	-.73	758	4.7350	-.52
541	12.065	1.61	Avg	11.588		144	10.270 s	-4.40	353	38.040	-1.15	208	4.7050	-.53
776	12.065	1.61	194	11.585	-.05	265	10.200 s	-4.63				650	4.6750	-.62
819	12.050	1.55	229	11.550	-.18	647	9.7350 s	-6.20				026	4.6000	-.77
100	12.015	1.43	226	11.550	-.21							732	4.5150	-1.03
309	12.010	1.41	675	11.515	-.27							148	4.4650	-1.20

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 013.02	--	--	Method 013.13	--	--	Method 018.02	--	--	Method 019.01	--	--	Method 019.05	--
337	4.4450	-1.25	581	4.6400	-.71	011	0.0670	-.71	036	0.9690	.37	208	1.2245 s	6.84
855	4.3450	-1.55							006	0.9650	.29	003	1.0300 R	2.21
011	4.2900	-1.84	--	Method 013.99	--	--	Method 019.00	--	018	0.9630	.23	413	1.0200	1.71
229	4.2400	-2.01	065	5.3638	.71	681	1.2650 S	4.32	263	0.9607	.16	629	1.0175	1.46
776	4.0200 R	-2.70				716	1.1500 S	2.80	650	0.9600	.15	512	0.9973 R	1.45
003	3.7700 s	-3.44	--	Method 015.00	--	647	1.0800	1.75	674	0.9550	.12	171	1.0150	1.40
			345	100.73	2.28	658	1.0625	1.48	039	0.9561	.06	520	1.0000	1.01
--	Method 013.10	--	520	89.500	.89	043	1.0100	.75	Avg	0.9536		598	1.0000	1.01
504	5.5600	2.03	616	84.800	.28	623	1.0008	.62	233	0.9450	-.23	425	1.0000	1.01
185	5.2050	1.23	353	83.140	.13	552	0.9650	.37	305	0.9500	-.25	226	0.9950	.88
660	5.1650	1.16	Avg	82.582		194	0.9750	.26	563	0.9428	-.25	298	0.9900	.79
177	5.1500	1.07	560	81.150	-.19	Avg	0.9568		208	0.9405	-.31	695	0.9900	.79
652	5.0000	.72	021	80.550	-.26	175	0.9350	-.31	536	0.9404	-.35	860	0.9895	.73
843	4.9150	.52	154	80.500	-.27	620	0.9104	-.66	013	0.9480	-.35	511	0.9850	.73
160	4.8350	.36	011	79.880	-.34	679	0.9100	-.67	001	0.9385	-.38	242	0.9850	.63
716	4.6950	.20	164	75.500 R	-1.05	622	0.9076	-.72	278	0.9350	-.55	300	0.9825	.58
Avg	4.6939		049	73.075	-1.21	651	0.8750	-1.16	669	0.9280	-.62	004	0.9800	.52
539	4.6800	-.19	510	72.500	-1.28	621	0.8500	-1.50	152	0.9250	-.67	294	0.9800	.49
062	4.6255	-.25	169	55.700 s	-3.40	849	0.7150 S	-3.39	178	0.9250	-.67	185	0.9775	.48
688	4.6000	-.32							307	0.9200	-.81	510	0.9650	.40
353	4.5300	-.39	--	Method 016.99	--	--	Method 019.01	--	038	0.9160	-.87	407	0.9700	.23
656	4.4950	-.49	508	0.1285	.71	722	5.2298 s	98.88	505	0.9150	-.90	Avg	0.9613	
672	4.5000	-.65				631	1.0800 R	3.00	656	0.9150	-.90	148	0.9545	-.18
096	4.2500	-1.10	--	Method 017.00	--	720	1.0400	2.00	675	0.9150	-.90	083	0.9550	-.21
610	4.1000	-1.41	508	110.53 s	86.66	033	1.0400	2.00	169	0.9150	-.96	164	0.9550	-.21
673	4.1000	-1.41	345	11.255	1.94	588	1.0270	1.70	139	0.9015	-1.20	074	0.9600	-.26
845	4.0850	-1.50	560	9.3900	.37	034	1.0250	1.66	142	0.8900	-1.47	049	0.9600	-.26
			Avg	8.9858		035	1.0150	1.43	670	0.8750	-1.85	168	0.9515	-.28
--	Method 013.11	--	045	8.6050	-.33	108	1.0000 R	1.42	710	0.8450	-2.51	011	0.9463	-.43
417	4.4850	.85	693	8.5500	-.48	019	1.0050	1.24	646	0.7900 A	-3.79	051	0.9450	-.44
Avg	4.2158		353	8.1500	-.71	010	1.0050	1.20	591	0.7380 s	-5.00	358	0.9350	-.70
014	3.9465	-.88	049	7.9650	-.87	504	0.9965	1.00				229	0.9300	-.85
						354	0.9850	.74	--	Method 019.03	--	100	0.9150	-1.21
--	Method 013.12	--	--	Method 017.99	--	619	0.9780	.70	036	1.0425	1.19	026	0.9141	-1.24
720	4.2400	1.41	307	8.8900	.72	098	0.9550	.58	307	1.0250	.61	265	0.9300 R	-1.32
672	4.1550	.17	Avg	8.5150		350	0.9751	.51	043	1.0200	.40	405	0.9050	-1.47
Avg	4.1367		358	8.1400	-.99	026	0.9750	.51	Avg	1.0085		098	0.9050	-1.51
588	4.0150	-.69				014	0.9570	.42	686	0.9800	-1.06	682	0.9000	-1.59
						205	0.9700	.38	026	0.9750	-1.19	645	0.8933	-1.77

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 019.05	--	--	Method 019.09	--	--	Method 020.99	--	--	Method 022.01	--	--	Method 022.03	--
553	0.8790	-2.15	106	0.9415	-.71	Avg	2.0300		Avg	13.347		026	12.250	-.71
144	0.9250 R	-2.16	567	0.9350	-.87	675	2.0300	-.71	035	13.000	-.23	229	12.000	-.87
089	0.7950 s	-4.32	038	0.9325	-.90	616	0.0000 S	-13.05	098	13.150	-.46	510	12.000	-.87
			187	0.9305	-.91				175	12.500	-.66	148	10.650	-1.75
--	Method 019.08	--	508	0.9266	-.99	--	Method 021.01	--	504	12.350	-.68	185	10.500	-1.88
729	1.1050	1.37	693	0.9240	-1.05	619	1.4350	-.71	563	11.815	-1.07			
848	1.0450	.65	154	0.9124	-1.26				716	11.750	-1.08	--	Method 022.05	--
Avg	1.0037		309	0.9155	-1.35	--	Method 021.02	--	590	12.350 R	-1.13	017	19.500 s	8.54
673	1.0000	-.05	190	0.9000	-1.51	510	0.8050 s	6.93	710	11.500	-1.29	160	16.175 R	2.49
138	0.9685	-.48				171	0.4500	1.41	305	10.975	-1.60	186	16.000	2.29
590	0.9000	-1.40	--	Method 019.99	--	508	0.3865	.75	722	10.773	-1.75	202	16.000	2.14
			588	1.0385	1.18	011	0.4178	.64	591	8.2400 S	-3.46	042	15.050	1.41
--	Method 019.09	--	692	0.9950	.62	154	0.4015	.42				032	14.800	1.37
016	1.1550 S	3.40	121	0.9935	.62	Avg	0.3788		--	Method 022.03	--	035	14.500	1.00
032	1.0900	2.15	629	0.9800	.45	038	0.3500	-.94	004	19.500 s	4.13	345	14.470	.89
042	1.0800	2.03	Avg	0.9461		560	0.3435	-.96	144	16.600	2.17	037	14.355	.81
353	1.0750	1.86	665	0.9450	-.06	572	0.3025	-1.24	003	16.500	2.08	187	14.115	.60
160	1.0609	1.61	065	0.8610	-1.08	616	0.0000 s	-6.16	598	16.000	1.85	560	13.950	.51
037	1.0410	1.25	852	0.8100	-1.73				511	15.450	1.39	726	13.876	.40
028	1.0300	1.01	724	0.6800 S	-3.36	--	Method 021.99	--	695	13.785	.81	353	13.815	.36
035	1.0250	.90				563	0.9910	.71	083	14.000	.43	413	13.450	.21
047	1.0150	.85	--	Method 020.00	--				208	14.000	.43	Avg	13.382	
202	1.0050	.59	563	2.3000	.93	--	Method 022.01	--	405	14.000	.43	508	13.320	-.06
199	1.0073	.59	Avg	2.2500		656	74.305 s	41.19	171	13.500	.34	309	13.305	-.07
017	0.9950	.34	164	2.2000	-.80	505	21.000 s	5.84	098	13.500	.34	106	13.050	-.30
045	0.9835	.10				278	15.650	1.59	520	13.500	.34	366	13.000	-.31
726	0.9829	.09	--	Method 020.01	--	675	15.540	1.51	226	13.500	.34	567	13.000	-.31
Avg	0.9781		508	2.1844	1.78	536	15.225	1.27	265	13.500	.34	027	13.270	-.41
186	0.9760	-.09	154	2.2000	1.05	588	15.000	1.12	011	13.460	.26	294	12.800	-.53
021	0.9655	-.26	171	2.0500	.48	350	14.950	1.09	Avg	13.338		045	12.850	-.57
009	0.9699	-.32	096	2.0000	.23	014	13.500 R	1.02	074	13.000	-.22	038	12.650	-.63
560	0.9610	-.33	Avg	1.9446		038	14.500	.85	164	13.000	-.22	009	12.710	-.66
616	0.9655	-.34	011	1.9328	-.05	178	14.000	.81	358	12.870	-.38	199	12.400	-.80
848	0.9550	-.45	567	1.8550	-.37	669	13.635	.49	049	13.225	-.55	096	12.500	-.83
366	0.9600	-.52	560	1.7500	-.80	619	13.500	.35	300	12.500	-.56	154	12.500	-.83
096	0.9650	-.54	510	1.5850	-1.48	208	13.500	.35	100	12.500	-.64	616	12.500	-.92
345	0.9495	-.55	021	1.8500 R	-2.29	354	13.470	.12	629	12.350	-.66	693	12.250	-.92
027	0.9505	-.55				674	13.500	.10	407	12.315	-.67	572	12.300	-1.01
572	0.9495	-.57				307	13.350	.03	242	13.000	-.69	190	11.460	-1.58

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 022.05	--	--	Method 025.03	--	--	Method 025.05	--	--	Method 027.01	--	--	Method 027.03	--
021	11.200	-1.83	208	288.50 s	4.39	021	242.00	.15	658	0.1950	.40	Avg	0.1953	
169	8.6350 s	-3.89	003	233.50 R	2.21	345	239.41	.05	653	0.1945	.39	185	0.1948	-.31
			004	247.00	1.37	Avg	239.11		588	0.1935	.11	049	0.1950	-.54
--	Method 022.99	--	265	247.00	1.30	045	237.00	-.33	Avg	0.1932		358	0.1900	-.57
121	13.427 s	3.50	520	246.00	1.28	096	235.00	-.34	208	0.1930	-.04	100	0.1900	-.57
846	12.790	1.39	405	243.00	1.02	199	229.75	-.49	350	0.1917	-.33	242	0.1900	-.57
607	11.919	.40	695	240.00	.98	017	231.50	-.55	139	0.1903	-.58	026	0.1863	-.98
Avg	11.777		074	241.50	.89	187	228.50	-.56	305	0.1900	-.63	265	0.1900 R	-1.22
692	11.400	-.57	164	238.00	.64	567	227.50	-.60	307	0.1900	-.63	083	0.1850	-1.24
613	11.000	-1.04	300	235.30	.61	560	227.00	-.66	675	0.1900	-.63	229	0.1850	-1.24
			083	237.50	.60	693	224.00	-.79	035	0.1900	-.63	098	0.1850	-1.24
--	Method 023.01	--	242	234.50	.41	726	222.97	-.84	619	0.1900	-.66	553	0.1815	-1.49
619	0.0020	.00	011	235.02	.41	106	216.00	-1.20	722	0.1896	-.71	144	0.1800	-1.65
			100	232.50	.34	616	213.50	-1.34	504	0.1890	-.94	407	0.1785	-1.81
--	Method 025.01	--	171	232.50	.29	154	207.50	-1.64	014	0.1900	-1.16			
722	256.28	1.82	049	232.10	.26	508	196.78 R	-2.40	142	0.1850	-1.88	--	Method 027.05	--
208	245.00	1.03	510	232.00	.19	169	150.50 s	-4.60	710	0.1850	-1.88	042	0.2140	1.88
675	241.80	.82	Avg	229.58					656	0.1900 R	-2.05	037	0.2115	1.61
278	240.00	.74	226	228.50	-.09	--	Method 025.99	--	591	0.1845 R	-2.12	032	0.2090	1.42
536	239.53	.65	229	225.00	-.41	692	230.50	.84	169	0.1750 s	-3.68	160	0.2061	1.10
619	238.00	.55	358	218.03	-.86	607	226.17	.53				202	0.2050	1.08
038	237.50	.51	598	216.50	-.97	027	218.54	.05	--	Method 027.03	--	345	0.2055	1.00
504	236.00	.45	148	216.40	-.98	Avg	218.30		208	0.2355 S	4.34	726	0.2035	.79
350	230.70	.05	144	212.10	-1.34	613	198.00	-1.59	003	0.2350 s	4.31	616	0.2030	.77
Avg	230.25		026	210.00	-1.46				425	0.2100	1.58	021	0.2020	.67
307	228.00	-.16	098	208.50	-1.57	--	Method 026.99	--	520	0.2100	1.58	353	0.2000	.43
505	227.50	-.26	407	201.00	-2.13	619	0.0000	.00	300	0.2080	1.37	693	0.1960	.41
098	226.00	-.36							413	0.2050	1.17	199	0.1969	.12
563	222.88	-.53	--	Method 025.05	--	--	Method 027.01	--	695	0.2036	.91	560	0.1960	.11
175	220.00	-.73	353	282.80	2.28	337	0.2065 s	2.81	011	0.2004	.55	Avg	0.1957	
354	218.60	-.82	037	273.80	1.80	536	0.2008	1.49	405	0.2000	.50	186	0.1950	-.22
670	224.50 R	-.90	186	254.50 R	1.21	038	0.2005	1.43	074	0.2000	.50	038	0.1950	-.32
014	212.50	-1.25	294	260.76	1.15	278	0.2000	1.32	226	0.2000	.50	309	0.1934	-.35
656	208.75 R	-1.71	042	259.50	1.07	098	0.2000	1.32	510	0.2000	.50	106	0.1920	-.38
710	194.00	-2.54	160	257.10	.98	175	0.2000	1.32	294	0.2000	.50	366	0.1950	-.52
305	158.88 S	-4.99	413	249.00	.93	505	0.1950	1.04	598	0.2000	.50	035	0.1900	-.59
337	137.45 s	-6.49	366	249.50	.57	563	0.1969	.73	148	0.2000	.50	572	0.1885	-.76
591	133.15 s	-6.79	038	245.50	.47	650	0.1943	.68	164	0.1985	.35	508	0.1863	-.97
			309	239.90	.18	263	0.1964	.62	171	0.1975	.24	187	0.1841	-1.20

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 027.05 --			-- Method 028.01 --			-- Method 028.05 --			-- Method 028.99 --			-- Method 031.01 --		
567	0.1850	-1.21	656	63.140	-1.90	035	138.50 s	14.07	692	75.500	-.46	205	0.7260	.14
017	0.1850	-1.21	278	60.500 S	-2.30	294	97.950 s	3.80	613	70.500	-1.40	350	0.7239	.05
096	0.1850	-1.21	305	45.665 s	-4.23	032	93.240 A	2.72				Avg	0.7227	
045	0.1835	-1.26				160	89.655	1.82	-- Method 029.00 --			629	0.7200	-.11
154	0.1789	-1.73	-- Method 028.03 --			021	88.500	1.64	675	0.0025	.71	658	0.7215	-.12
			208	97.500 s	4.60	616	86.900	1.07				620	0.7199	-.12
-- Method 027.99 --			003	91.500 s	3.42	045	86.850	.96	-- Method 029.99 --			018	0.7220	-.17
009	0.2126	1.35	520	85.000	1.68	038	84.500	.96	508	0.0194	.71	263	0.7184	-.18
692	0.1950	.43	242	83.500	1.31	017	86.000	.90				670	0.7150	-.39
Avg	0.1898		300	82.955	1.22	353	85.805	.72	-- Method 031.00 --			675	0.7150	-.39
065	0.1766	-.79	185	82.500	1.03	366	85.000	.71	622	0.7174	.71	651	0.7205	-.41
613	0.1750	-.93	171	82.000	.90	508	83.921	.70				305	0.7100	-.53
			148	81.600	.81	202	85.500	.63	-- Method 031.01 --			152	0.7100	-.53
-- Method 028.01 --			510	81.500	.79	560	83.050	.55	337	1.4050 s	28.76	178	0.7100	-.68
722	104.45 S	3.62	074	81.500	.79	106	84.550	.45	038	0.7670	1.89	647	0.7150	-.71
536	94.350	2.27	011	81.145	.75	027	84.705	.45	139	0.7540	1.32	848	0.7050	-.77
013	85.300	1.08	083	81.000	.70	042	83.150	.34	650	0.7500	1.23	169	0.7000	-.96
669	85.235	1.07	100	79.500	.47	Avg	83.049		665	0.7500	1.23	098	0.6950	-1.19
208	85.000	1.02	164	80.000	.42	726	82.763	-.07	035	0.7500	1.15	142	0.6950	-1.19
038	81.000 R	.94	229	79.000	.30	190	82.840	-.08	511	0.7450	1.13	016	0.6945	-1.19
675	83.685	.84	Avg	78.221		345	82.560	-.23	621	0.7450	1.13	039	0.6931	-1.26
563	82.500	.69	098	77.000	-.29	309	82.185	-.23	669	0.7485	1.10	034	0.6850	-1.60
504	81.350	.57	226	77.500	-.40	693	82.200	-.24	563	0.7486	1.09	849	0.6800	-1.80
035	81.000	.49	049	77.745	-.41	413	82.400	-.63	728	0.7400	.84	588	0.6740	-2.06
098	79.500	.35	358	76.345	-.49	037	80.390	-.68	354	0.7400	.73	108	0.6650 R	-2.65
307	79.300	.30	265	77.000	-.56	096	83.000	-.76	626	0.7400	.73	019	0.6500	-3.06
588	79.000	.22	144	75.450	-.72	187	78.615	-1.13	619	0.7375	.67	674	0.6750 s	-3.75
505	78.500	.17	553	75.450	-.73	186	78.500	-1.16	656	0.7250	.64	194	0.6150 s	-4.54
590	77.625	.10	598	75.000	-.77	567	77.500	-1.41	036	0.7365	.58	646	0.5150 s	-8.77
Avg	77.360		004	75.000	-.80	572	76.550	-1.75	026	0.7350	.56	591	0.4180 s	-12.84
178	76.000	-.18	511	77.100 R	-.81	009	74.730	-2.16	175	0.7350	.56			
710	74.500	-.39	026	73.950	-1.02	154	65.000 s	-4.61	679	0.7350	.56	-- Method 031.02 --		
350	74.150	-.43	407	72.060	-1.47	169	53.600 s	-7.47	710	0.7350	.56	505	0.7750 s	5.47
619	74.150	-.48	695	70.545	-1.83				278	0.7350	.56	013	0.7500	1.28
175	73.500	-.55	629	69.500	-2.08	-- Method 028.99 --			623	0.7325	.53	014	0.7415	.38
629	73.000	-.60	405	51.500 s	-6.37	121	84.905	1.29	716	0.7300	.31	Avg	0.7399	
354	69.200	-1.10				607	82.036	.76	233	0.7250	.23	043	0.7350	-.89
014	65.500	-1.62				Avg	77.985		722	0.7271	.19	011	0.7332	-.96
716	63.800	-1.81				846	76.985	-.28	001	0.7255	.16			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 031.03	--	--	Method 031.05	--	--	Method 031.05	--	--	Method 032.01	--	--	Method 032.05	--
720	0.8550 s	5.27	083	0.7450	.21	144	0.7050 R	-1.93	619	0.7760	.13	202	0.8250	.94
208	0.7545	.96	726	0.7436	.09	553	0.6715	-2.37	720	0.7800	.13	726	0.8249	.93
036	0.7480	.69	Avg	0.7411		309	0.6695 s	-3.05	Avg	0.7741		693	0.8220	.88
026	0.7450	.60	202	0.7400	-.04	154	0.6411 A	-3.38	038	0.7670	-.20	096	0.8100	.75
504	0.7403	.36	848	0.7400	-.04	089	0.6300 A	-3.72	098	0.7700	-.23	616	0.8130	.66
043	0.7350	.25	695	0.7400	-.04	--	Method 031.06	--	591	0.7545	-.47	567	0.8000	.59
Avg	0.7318		004	0.7380	-.12	686	0.8050	1.09	305	0.7550	-.51	425	0.8100	.56
307	0.7150	-.75	027	0.7390	-.18	536	0.7550	.29	035	0.7200	-1.15	265	0.7900	.51
047	0.6850	-2.00	860	0.7356	-.19	Avg	0.7483		505	0.7150	-1.29	572	0.8015	.50
--	Method 031.05	--	148	0.7345	-.22	138	0.6850	-1.11	563	0.7115	-1.33	042	0.7910	.34
208	0.8515 S	3.69	567	0.7350	-.26	--	Method 031.99	--	710	0.7050	-1.47	300	0.7964	.32
032	0.8450 S	3.51	009	0.7394	-.31	588	0.8570 S	4.43	139	0.7040	-1.49	083	0.7900	.26
028	0.8400 S	3.32	298	0.7400	-.34	729	0.8200 S	3.33	142	0.6950	-1.68	520	0.7950	.22
160	0.7983	2.01	042	0.7355	-.34	631	0.7500	1.14	--	Method 032.02	--	171	0.7915	.14
425	0.8000	1.97	366	0.7300	-.37	852	0.7250	.84	590	0.8500	1.38	Avg	0.7881	
300	0.7941	1.82	049	0.7300	-.37	590	0.7400	.78	716	0.8300	1.01	407	0.7835	-.12
074	0.7900	1.67	164	0.7300	-.37	724	0.7400	.78	665	0.8150	.74	164	0.7850	-.15
512	0.7830	1.50	645	0.7288	-.41	552	0.7250	.56	504	0.7918	.46	199	0.7797	-.21
616	0.7850	1.48	629	0.7300	-.50	Avg	0.7149		Avg	0.7749		508	0.7767	-.29
405	0.7800	1.34	682	0.7200	-.71	673	0.7100	-.15	169	0.7600	-.27	229	0.7800	-.33
021	0.7775	1.27	407	0.7200	-.71	692	0.7000	-.46	536	0.7298	-.83	186	0.7750	-.35
345	0.7765	1.19	185	0.7205	-.75	065	0.6840	-.97	108	0.7250	-1.02	510	0.7750	-.35
038	0.7650	1.16	199	0.7186	-.76	613	0.6600	-1.95	588	0.6975	-1.41	009	0.7802	-.37
353	0.7750	1.15	186	0.7180	-.83	--	Method 032.01	--	366	0.7750	-.50	026	0.7730	-.39
358	0.7650	.94	187	0.7158	-.85	226	0.8600	1.82	--	Method 032.05	--	358	0.7700	-.52
051	0.7600	.92	045	0.7155	-.88	294	0.8550	1.70	187	0.7656	-.57	171	0.7915	.14
096	0.7600	.92	100	0.7150	-.89	405	0.8500	1.57	229	0.7800	-.33	186	0.7750	-.35
037	0.7665	.92	242	0.7150	-.89	037	0.8440	1.42	504	0.7918	.46	186	0.7750	-.35
413	0.7600	.71	572	0.7125	-1.00	160	0.8353	1.29	536	0.7298	-.83	510	0.7750	-.35
560	0.7620	.70	003	0.7400 R	-1.00	353	0.8350	1.25	108	0.7250	-1.02	009	0.7802	-.37
168	0.7430	.64	693	0.7115	-1.08	413	0.8250	1.13	588	0.6975	-1.41	026	0.7730	-.39
598	0.7600	.63	520	0.7100	-1.09	695	0.8300	1.09	--	Method 032.05	--	366	0.7750	-.50
106	0.7585	.59	294	0.7000	-1.38	038	0.8295	1.07	226	0.8600	1.82	187	0.7656	-.57
510	0.7450	.52	098	0.7000	-1.38	560	0.8275	1.06	294	0.8550	1.70	106	0.7655	-.58
226	0.7550	.49	265	0.7150 R	-1.46	021	0.8245	1.02	405	0.8500	1.57	011	0.7641	-.62
171	0.7500	.45	229	0.6950	-1.55	049	0.8200	.96	037	0.8440	1.42	185	0.7635	-.63
121	0.7515	.35	190	0.6950	-1.62	208	0.8030	.64	160	0.8353	1.29	045	0.7625	-.65
035	0.7500	.30	508	0.7236 R	-1.62	205	0.7975	.52	353	0.8350	1.25	645	0.7584	-.77
			017	0.6900	-1.71	653	0.7965	.50	413	0.8250	1.13	345	0.7550	-.85
						650	0.7895	.40	695	0.8300	1.09	144	0.7800 R	-1.03
						307	0.7900	.34	038	0.8295	1.07	154	0.7409	-1.20
						670	0.7755	.31	560	0.8275	1.06	100	0.7350	-1.35
						675	0.7850	.25	021	0.8245	1.02	017	0.7350	-1.35
									049	0.8200	.96	553	0.7355	-1.36
									208	0.8255	.95	148	0.7300	-1.47

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 032.05	--	--	Method 033.01	--	--	Method 033.03	--	--	Method 034.05	--	--	Method 035.01	--
003	0.7300	-1.49	026	0.5050 s	3.45	674	0.5000	1.53	560	0.4320	.71	563	0.1627	.92
035	0.7250	-1.60	185	0.5033 s	3.36	860	0.4650	.75	138	0.1585	.63			
242	0.7150	-1.86	226	0.5000 s	3.25	014	0.4645	.74	--	Method 034.99	--	Avg	0.1574	
598	0.7000	-2.25	686	0.4850	2.56	505	0.4400	.69	508	0.3817	.42	686	0.1510	-1.12
309	0.6235 s	-4.23	039	0.4635	1.59	Avg	0.4312		Avg	0.3656				
--	Method 032.99	--	337	0.4600	1.50	726	0.4150	-.48	098	0.3650	-.66	--	Method 035.03	--
032	0.8400	1.35	098	0.4450	.80	598	0.4000	-.69	096	0.3500	-1.37	037	0.2940 s	15.86
692	0.7700	.03	510	0.4400	.70	190	0.4000	-.81	--	Method 035.00	--	004	0.2465 s	11.06
Avg	0.7681		307	0.4400	.70	144	0.3650	-1.49	658	0.1604	2.09	003	0.2200 s	8.38
065	0.7623	-.11	413	0.4400	.54	265	0.2200 s	-4.64	038	0.1510	1.03	187	0.1804 s	4.38
613	0.7000	-1.29	096	0.4400	.54	--	Method 033.05	--	722	0.1504	.93	208	0.1630	2.64
588	0.1640 S	-10.95	650	0.4400	.54	171	0.4200	.71	670	0.1500	.89	242	0.1550	1.90
--	Method 033.00	--	278	0.4400	.54	100	0.4300	.46	619	0.1490	.85	616	0.1545	1.83
353	0.5150 s	4.98	242	0.4350	.39	--	Method 033.99	--	354	0.1450	.65	598	0.1500 R	1.66
512	0.4558	2.40	019	0.4350	.39	681	0.6300 S	8.37	098	0.1450	.65	042	0.1495	1.43
539	0.4300	1.37	202	0.4350	.39	003	0.5600 S	6.26	142	0.1450	.65	226	0.1500	1.32
298	0.4200	.98	175	0.4350	.39	673	0.4000	1.45	175	0.1450	.65	425	0.1500	1.32
169	0.4200	.98	610	0.4345	.30	552	0.3900	1.15	675	0.1450	.65	144	0.1400 R	1.06
366	0.4150	.71	164	0.4300	.10	Avg	0.3519		710	0.1450	.65	413	0.1450	.96
693	0.4145	.68	Avg	0.4278		121	0.3470	-.19	278	0.1450	.65	100	0.1450	.96
160	0.4045	.43	021	0.4250	-.26	855	0.3450 R	-.50	139	0.1425	.40	083	0.1450	.96
567	0.4000	.42	229	0.4200	-.35	619	0.3295	-.67	263	0.1451	.39	353	0.1450	.96
208	0.4065	.37	011	0.4179	-.45	716	0.3250	-.82	Avg	0.1422		300	0.1410	.82
045	0.4025	.35	199	0.4170	-.49	358	0.3200	-.96	653	0.1410	-.13	160	0.1422	.65
016	0.4000	.05	590	0.4150	-.61	--	Method 034.01	--	720	0.1400	-.25	011	0.1420	.53
Avg	0.3988		354	0.4150	-.61	038	0.3790	.71	307	0.1400	-.25	021	0.1415	.47
849	0.3900	-.56	178	0.4150	-.61	--	Method 034.04	--	233	0.1400	-.25	298	0.1400	.32
407	0.3850	-.61	194	0.4150	-.61	152	0.1370	-.60	650	0.1420	-.34	202	0.1400	.32
588	0.3850	-.61	559	0.4150	-.61	208	0.5025	1.50	152	0.1370	-.60	164	0.1400	.32
675	0.3850	-.61	051	0.4100	-.80	171	0.4450 X	.68	205	0.1360	-.71	405	0.1400	.32
511	0.3800	-.79	205	0.4075	-.91	164	0.4300	.45	656	0.1350	-.99	693	0.1375	.26
034	0.3750	-1.00	029	0.4000	-1.24	169	0.4200	.27	208	0.1350	-.99	726	0.1384	.16
309	0.3770	-1.00	042	0.4000	-1.27	Avg	0.4014		337	0.1250	-1.97	038	0.1370	.10
013	0.3700	-1.28	004	0.3800 R	-2.31	572	0.3745	-.39	305	0.1200	-2.52	Avg	0.1369	
504	0.3600	-1.63	106	0.3630	-2.89	563	0.3490	-.77	591	0.0965 s	-5.25	148	0.1365	-.06
695	0.2200 s	-7.50	710	0.3550 s	-3.25	619	0.2885	-1.66				407	0.1360	-.09
												508	0.1368	-.14
												645	0.1354	-.20
												199	0.1341	-.28

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 035.03	--	--	Method 035.99	--	--	Method 037.01	--	--	Method 037.03	--	--	Method 037.05	--
185	0.1340	-.32	692	0.1400	.74	505	105.00 s	8.65	074	74.500	.61	Avg	75.344	
572	0.1330	-.39	Avg	0.1393		722	82.457	1.73	511	73.400	.61	726	74.397	-.16
265	0.1350	-.54	065	0.1386	-.98	014	80.500	1.33	520	74.500	.53	366	75.000	-.18
049	0.1350	-.54	613	0.1000 S	-41.58	588	80.500	1.29	229	73.500	.32	021	75.000	-.18
017	0.1350	-.54	--	Method 036.00	--	536	79.625	1.09	Avg	72.131		037	74.285	-.18
229	0.1350	-.54	307	0.1700 S	.00	675	79.145	.99	510	72.000	-.03	345	73.750	-.29
695	0.1350	-.54	--	Method 036.03	--	178	77.500	.83	100	71.500	-.18	572	74.900	-.30
567	0.1350	-.54	154	0.3356 s	10.74	720	78.224	.77	242	72.000	-.22	560	73.600	-.35
096	0.1350	-.54	021	0.2420	2.14	590	77.770	.67	171	71.500 X	-.36	187	71.890	-.59
682	0.1300	-.69	038	0.2265 R	1.05	591	76.665	.44	049	70.535	-.37	693	71.000	-.76
098	0.1300	-.69	160	0.2294	1.04	354	75.970	.40	695	69.960	-.59	309	71.300	-.80
089	0.1300	-.69	560	0.2295	.98	208	76.000	.26	265	70.000	-.64	567	70.500	-.83
520	0.1300	-.69	708	0.2280	.85	669	75.571	.25	598	69.000	-.69	199	70.200	-.88
366	0.1300	-.69	345	0.2265	.71	278	75.250	.09	358	68.890	-.71	190	68.365	-1.19
045	0.1295	-.74	186	0.2215	.34	Avg	74.873		098	68.500	-.80	154	69.500	-1.25
345	0.1295	-.74	171	0.2205	.21	563	73.470	-.32	629	68.500	-.80	096	67.500	-1.40
309	0.1280	-.90	294	0.2200	.11	504	72.550	-.54	148	68.200	-.86	009	61.530	-2.37
186	0.1245	-1.27	366	0.2200	.11	175	72.500	-.55	026	68.350	-.89	169	46.500 s	-4.91
154	0.1233	-1.41	187	0.2188	.01	716	72.200	-.61	168	69.500 R	-.96	--	Method 037.99	--
358	0.1200	-1.70	Avg	0.2188		674	72.310	-.67	144	67.750	-1.03	121	75.972	.79
035	0.1200	-1.70	106	0.2170	-.32	098	72.000	-.69	553	66.500	-1.32	846	75.150	.69
510	0.1125	-2.47	042	0.2160	-.38	305	71.115	-.87	164	64.950	-1.58	607	72.546	.35
--	Method 035.05	--	508	0.2155	-.46	350	70.950	-.90	--	Method 037.05	--	Avg	71.044	
169	0.1700	1.85	353	0.2150	-.58	038	72.500 R	-.97	186	91.000 S	2.71	692	69.550	-1.12
108	0.1600 R	1.33	045	0.2100	-.81	307	71.150	-1.10	042	86.650	1.99	613	62.000	-1.42
294	0.1600	1.10	202	0.2100	-.81	656	69.540	-1.30	106	86.050	1.82	--	Method 038.00	--
536	0.1570	.88	693	0.2060	-1.23	710	64.000	-2.49	027	83.250	1.36	011	1.7405 s	7.09
590	0.1475	.25	616	0.1925	-2.42	035	57.500 s	-3.97	032	81.750	1.24	154	1.4900	.97
Avg	0.1452		169	0.1600 s	-5.40	--	Method 037.03	--	045	77.100 R	.97	106	1.4700	.89
171	0.1450	-.08	--	Method 036.04	--	004	108.00 s	7.91	616	79.900	.87	510	1.4500	.88
588	0.1415	-.28	226	0.2200	.78	003	101.50 s	6.91	413	80.250	.83	693	1.4550	.53
106	0.1350	-.82	Avg	0.2125		405	101.00 s	6.33	017	80.000	.81	Avg	1.4370	
665	0.1350	-.85	510	0.2050	-.94	208	84.000	2.60	160	79.375	.73	560	1.4100	-.46
560	0.1310	-1.12				011	78.418	1.46	353	79.205	.67	508	1.3470	-1.58
716	0.1300	-1.13				185	78.500	1.40	508	78.626	.58	038	1.3000 s	-2.90
504	0.1165 S	-2.37				226	77.500	1.18	294	75.650	.49			
						300	76.960	1.07	038	76.050	.35			
						083	76.000	.88	202	75.500	.09			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 038.99 --			-- Method 045.02 --			-- Method 105.00 --			-- Method 107.00 --			-- Method 120.00 --		
164	1.9000	.00	039	0.0109	-.12	722	6.9450	1.29	227	11.250	.71	171	1.1400	s 5.85
			218	0.0107	-.23	Avg	3.8250					675	0.9950	1.61
-- Method 039.01 --			027	0.0104	-.49	644	2.4000	-.59	-- Method 108.01 --			038	0.9750	R 1.42
164	1.4000	.00	047	0.0103	-.57	160	2.1300	-.70	096	0.1550	-.71	504	0.9800	1.22
			019	0.0101	-.87							571	0.9650	.76
-- Method 039.02 --			846	0.0087	-1.76	-- Method 105.01 --			-- Method 108.02 --			676	0.9395	.19
560	1.7650	1.13				227	3.3400	.71	560	17.550	.87	859	0.9390	.17
154	1.9500	1.05	-- Method 055.99 --						Avg	9.7300		Avg	0.9379	
Avg	1.7138		563	4.5660	.71	-- Method 106.00 --			675	1.9100	-.87	619	0.9195	-.53
508	1.6035	-.72				171	7.9000	X .86				652	0.9100	-.83
011	1.5368	-.77	-- Method 101.01 --			Avg	6.2350		-- Method 109.02 --			644	0.9040	-.95
			208	708.50	.71	033	4.5700	-.87	722	60.603	s 4.75	227	0.9295	R -1.03
-- Method 040.00 --									563	42.727	1.15	350	0.8890	-1.38
560	3.5200	.71	-- Method 101.99 --			-- Method 106.02 --			644	41.250	.85	160	0.8048	S -3.80
			644	426.50	.71	619	16.150	s 9.25	227	39.150	R .73			
-- Method 041.00 --						038	6.4665	R 2.28	208	40.270	.65	-- Method 120.05 --		
508	1.7295	.93	-- Method 102.00 --			675	7.2650	2.10	610	39.200	.44	626	0.9850	.71
011	1.7225	.68	208	27.990	.71	616	6.9150	1.79	860	38.225	.24			
Avg	1.6255					016	5.9300	1.36	199	37.185	.08	-- Method 121.00 --		
021	1.6000	-.73	-- Method 102.01 --			670	5.0350	.28	Avg	37.019		675	1.1500	1.74
154	1.4500	-1.28	227	23.650	.71	021	5.0050	.27	675	36.915	-.38	160	1.1344	1.22
						Avg	4.6947		560	28.750	-1.67	504	1.1200	.97
-- Method 045.00 --			-- Method 103.01 --			004	4.6390	-.15	619	28.650	-1.69	171	1.1100	X .78
028	0.0118	2.00	227	7.0150	-.71	560	4.4450	-.21				571	1.1150	.47
171	0.0108	.43				160	4.5200	-.29	-- Method 109.99 --			644	1.1060	.13
Avg	0.0105		-- Method 104.00 --			208	4.2050	-.40	096	42.500	.71	Avg	1.1033	
511	0.0105	-.13	171	5.8000	X 1.29	017	4.3950	-.43				676	1.0905	-.49
009	0.0105	-.31	Avg	4.8317		722	3.9263	-.62	-- Method 112.00 --			619	1.0850	-.70
043	0.0103	-.33	208	4.3900	-.58	199	3.8600	-.67	227	2982.0	.87	859	1.0870	-.80
036	0.0101	-.65	227	4.3050	-.71	610	3.7700	-.76	Avg	1523.9		227	1.0925	-.89
034	0.0097	-1.28				227	3.6800	-.82	722	65.870	-.87	652	1.0750	-1.19
			-- Method 104.03 --			096	2.8300	-1.52				038	1.0740	-1.28
-- Method 045.02 --			644	4.2000	.87				-- Method 113.01 --			350	0.9715	s -4.89
026	0.0138	S 2.08	Avg	3.5981		-- Method 106.99 --			227	1.5600	.71			
003	0.0124	1.10	563	2.9962	-.87	644	3.0500	.71				-- Method 121.05 --		
038	0.0116	.59							-- Method 114.01 --			626	1.1700	.00
001	0.0114	.34							227	0.2455	.87			
004	0.0110	.08							Avg	0.1773				
Avg	0.0107								208	0.1090	-.86			

* X=Excluded from lab performance S/s=Screened Outlier R=Duplicate Range too large A=Analysis beyond 3-s limits

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 122.00	--	--	Method 125.00	--	--	Method 127.00	--	--	Method 129.00	--	--	Method 130.01	--
038	1.7195 R	2.63	038	3.1380 R	1.43	160	0.5534	2.75	504	1.5950	1.61	035	0.9450	.71
504	1.6100	.97	227	3.2410	1.27	676	0.5175 R	1.67	652	1.5450 R	1.28	--	Method 130.05	--
644	1.6220	.94	619	3.2200	1.01	652	0.4800	.52	171	1.5750 X	1.12	626	0.9050	.71
171	1.6200 X	.90	571	3.2050	.83	571	0.4815	.46	571	1.5700	.97	--	Method 131.00	--
652	1.5750	.58	652	3.1600	.76	644	0.4675	.11	227	1.5600	.75	848	0.3900	2.60
227	1.5950	.55	675	3.1900	.66	171	0.4700 X	.09	676	1.5325	.35	644	0.3440	1.01
619	1.5950	.53	504	3.1550	.47	Avg	0.4673		Avg	1.5261		619	0.3275	.46
859	1.5650	.10	644	3.1670	.38	859	0.4630	-.14	644	1.5205	-.12	512	0.3161	.34
Avg	1.5610		Avg	3.1346		504	0.4650	-.18	619	1.5150	-.27	675	0.3150	.17
675	1.5450	-.26	859	3.0650	-.82	675	0.4600	-.23	859	1.5095	-.37	571	0.3180	.11
676	1.5490	-.36	676	3.0545	-.94	619	0.4575	-.32	675	1.5050	-.48	Avg	0.3149	
350	1.4855	-1.16	350	3.0300	-1.23	227	0.4465	-.72	038	1.5170	-.65	859	0.3045	-.36
160	1.4093	-2.33	171	3.0450 R	-1.61	038	0.4375	-.97	160	1.4790	-1.04	350	0.2995	-.54
571	1.1600 s	-6.14	160	2.9935	-1.66	350	0.4255	-1.33	350	1.4345	-2.02	675	0.2950	-.71
--	Method 122.05	--	--	Method 125.05	--	--	Method 127.05	--	--	Method 129.05	--	504	0.2950	-.71
626	1.6250	.71	626	3.2600	.00	626	0.5050	.71	626	1.5900	.00	160	0.2880	-.94
--	Method 124.00	--	--	Method 126.00	--	--	Method 128.00	--	--	Method 130.00	--	038	0.2865	-1.01
160	0.3991 s	4.53	160	0.7915	1.68	504	0.7200	1.23	160	0.9873 s	3.33	--	Method 131.01	--
038	0.3465 R	2.19	227	0.7685 R	1.42	571	0.7150	1.14	504	0.9550	2.27	171	0.3350 X	.71
652	0.3250	1.15	038	0.7595	1.12	227	0.6810 R	.79	674	0.9300	1.38	--	Method 131.02	--
171	0.3300 X	1.13	171	0.7750 X	1.09	619	0.6925	.76	171	0.9000 X	1.08	676	0.3455	.87
619	0.3250	.91	504	0.7750	1.09	171	0.6850 X	.64	512	0.8952	.77	Avg	0.3320	
571	0.3205	.67	571	0.7600	.55	644	0.6750	.47	676	0.9100	.65	227	0.3185	-.87
Avg	0.3069		Avg	0.7452		676	0.6500	.11	571	0.9075	.55	--	Method 131.05	--
350	0.3060	-.15	619	0.7345	-.39	Avg	0.6472		208	0.9000	.45	626	0.2850	-.71
675	0.3050	-.26	675	0.7350	-.41	859	0.6470	-.03	860	0.9000	.45	--	Method 131.99	--
504	0.2950	-.63	676	0.7305	-.56	652	0.6450 R	-.59	Avg	0.8916		208	0.2600	.00
859	0.2795	-1.35	859	0.7250	-.74	350	0.6115	-.60	675	0.8850	-.29	--	Method 132.00	--
644	0.2760	-1.52	652	0.7300	-.91	160	0.6105	-.62	644	0.8810	-.38	160	0.8805	1.38
--	Method 124.02	--	644	0.7170	-1.02	675	0.5950	-.88	619	0.8780	-.48	171	0.8500 X	.98
676	0.2965	.82	350	0.7095	-1.30	038	0.5180	-2.22	859	0.8780	-.57	619	0.8675	.93
Avg	0.2920		--	Method 126.05	--	--	Method 128.05	--	848	0.8850	-.57	652	0.8400	.90
227	0.2875	-.91	626	0.7900	.00	626	0.7700	.00	350	0.8700	-.75	--		
									227	0.8690	-.93			
									652	0.8650	-1.27			
									038	0.8490	-1.55			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 132.00	--	--	Method 134.00	--	--	Method 136.01	--	--	Method 138.05	--			
504	0.8600	.76	Avg	0.8212		571	0.2060	-.83	626	0.8700	.00			
859	0.8535	.51	859	0.8175	-.15									
571	0.8505	.42	350	0.8020	-.42	--	Method 136.99	--	--	Method 139.00	--			
227	0.8455	.31	676	0.7875	-.79	504	0.2200	.85	504	0.0650	.71			
Avg	0.8366		652	0.7900	-.82	Avg	0.2050							
644	0.8350	-.05	644	0.7795	-.92	610	0.1900	-.88						
675	0.8250	-.38	504	0.7450	-1.77									
676	0.8065	-.95				--	Method 137.00	--						
350	0.7865	-1.50	--	Method 134.05	--	171	0.7000 X	1.41						
038	0.7750	-1.88	626	0.8600	.71	160	0.6841	1.16						
						676	0.6495	.69						
--	Method 132.05	--	--	Method 135.00	--	675	0.6100	.11						
626	0.8800	.00	171	0.7450 s	5.35	Avg	0.6025							
			571	0.6535	1.07	644	0.5880	-.21						
--	Method 133.00	--	504	0.6400	1.03	504	0.5650	-.57						
038	1.1730	1.13	652	0.6500	1.02	227	0.5180	-1.20						
652	1.1600	.81	644	0.6505	.94	350	0.5050	-1.38						
571	1.1550	.73	227	0.6430	.81									
171	1.1500 X	.67	619	0.6410	.50	--	Method 137.05	--						
644	1.1385	.50	160	0.6370	.41	626	0.4800	.00						
227	1.1315	.48	Avg	0.6303										
Avg	1.1025		859	0.6295	-.35	--	Method 138.00	--						
676	1.0985	-.11	676	0.6100	-.95	504	0.8700	1.15						
619	1.0950	-.12	038	0.6085	-1.08	619	0.8665	1.08						
160	1.0558	-.78	350	0.6055	-1.17	571	0.8535	.83						
504	1.0400	-.87	675	0.5950	-1.65	160	0.8389	.55						
675	0.9300	-2.39				171	0.8250 X	.29						
			--	Method 135.05	--	227	0.8255	.28						
--	Method 133.05	--	626	0.6800	.00	644	0.8140	.07						
626	1.2250	-.71				Avg	0.8110							
			--	Method 136.00	--	675	0.7950 R	-.43						
--	Method 134.00	--	859	0.2030	-.71	859	0.7890	-.44						
038	1.0140 s	4.33				350	0.7755	-.69						
171	0.8950 X	1.72	--	Method 136.01	--	676	0.7730	-.75						
227	0.8680	1.18	160	0.2613 S	7.73	652	0.6900	-2.37						
160	0.8739	1.17	227	0.2200	1.47	038	0.6295 S	-3.59						
571	0.8380	.37	644	0.2125	.42									
675	0.8350	.33	Avg	0.2114										
619	0.8225	.17	619	0.2070	-.68									

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Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.00	11	-0.0701	0.98	0.42	009.09	16	0.0000	0.99	0.21
001.03	3	0.0000	1.08	0.24	009.99	6	0.3137	1.22	0.11
001.07	39	-0.1776	1.41	0.50	010.03	5	-0.7274	1.34	0.36
001.99	19	-0.0302	0.99	0.21	010.11	8	-0.1306	1.02	0.28
002.00	6	0.0000	1.04	0.09	010.99	17	-0.1559	1.50	0.38
002.01	10	0.0000	1.00	0.21	011.01	83	-0.2263	1.45	0.32
002.02	7	0.0125	0.95	0.28	011.99	3	-3.9367	6.85	0.42
002.03	2	0.0000	0.00	0.00	012.00	8	0.0000	0.94	0.40
002.04	6	-1.3588	3.45	0.21	012.01	2	0.0000	0.65	0.73
002.05	20	0.2959	1.74	0.37	012.04	6	0.0000	1.05	0.08
002.06	141	0.0594	1.33	0.74	012.11	2	0.0000	0.92	0.57
002.08	4	0.0000	1.07	0.14	012.99	3	2.5752	4.54	0.08
002.10	10	0.0600	0.96	0.38	013.02	33	-0.1779	1.18	0.34
002.11	13	1.5687	2.68	0.53	013.10	18	0.0000	0.98	0.25
002.99	5	0.0000	0.85	0.56	013.11	2	0.0000	1.12	0.34
003.00	32	0.0275	1.50	0.27	013.12	3	0.0000	0.64	0.75
003.06	23	0.2419	1.37	0.50	015.00	12	-0.3555	1.35	0.22
003.09	31	0.2742	1.55	0.30	017.00	7	12.3799	32.77	0.38
003.10	33	0.4965	3.06	1.68	017.99	2	0.0000	1.01	0.49
003.11	13	0.2796	1.21	0.36	019.00	15	0.2426	1.85	0.24
003.12	2	3.0052	4.25	0.51	019.01	48	1.9606	14.35	0.26
003.13	4	0.0000	1.01	0.32	019.03	5	0.0000	1.04	0.19
003.14	16	0.0000	0.85	0.54	019.05	41	0.0849	1.61	0.49
003.99	11	-0.4891	1.50	0.39	019.08	5	0.0000	1.04	0.17
004.00	31	0.1887	1.75	0.34	019.09	34	0.0996	1.12	0.26
004.01	2	0.0000	1.04	0.45	019.99	8	-0.4205	1.53	0.11
004.03	3	0.0000	0.85	0.59	020.00	2	0.0000	1.13	0.34
004.06	31	0.1882	1.21	0.32	020.01	9	-0.0431	0.82	0.90
004.07	44	0.1114	1.12	0.23	020.99	2	-6.5247	9.23	0.50
004.11	12	0.0000	1.00	0.22	021.02	9	0.0856	3.35	0.53
004.99	3	0.0000	1.10	0.17	022.01	27	1.5683	8.06	0.64
005.00	131	0.0629	1.18	0.23	022.03	29	0.1384	1.20	0.37
005.11	9	-0.3705	1.75	0.19	022.05	33	0.1030	1.49	1.26
005.99	14	-1.0804	4.31	0.41	022.99	5	0.4392	1.33	1.25
008.02	16	0.0369	0.99	0.16	025.01	22	-0.9170	2.32	0.27
008.08	20	0.0000	0.99	0.21	025.03	26	0.1797	1.27	0.49
008.99	6	0.9275	2.42	0.42	025.05	26	-0.2307	1.36	0.35
009.04	2	0.0000	0.79	0.66	025.99	4	0.0000	0.97	0.41
009.07	13	0.0000	1.01	0.16	027.01	29	-0.1133	1.23	0.65

Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
027.03	30	0.2676	1.44	0.32	104.00	3	0.0000	1.10	0.18
027.05	27	0.0000	0.97	0.28	104.03	2	0.0000	1.22	0.02
027.99	4	0.0000	1.05	0.22	105.00	3	0.0000	1.12	0.01
028.01	27	-0.0881	1.49	0.22	106.00	2	0.0000	1.21	0.12
028.03	30	0.0375	1.81	0.37	106.02	17	0.6251	2.41	0.56
028.05	32	0.2620	3.19	0.45	108.02	2	0.0000	1.22	0.01
028.99	5	0.0000	1.05	0.12	109.02	11	0.4706	1.69	0.22
031.01	55	-0.0330	4.60	0.52	112.00	2	0.0000	1.22	0.01
031.02	5	0.8910	2.16	1.47	114.01	2	0.0000	1.22	0.08
031.03	8	0.6535	2.08	0.27	120.00	13	0.2114	2.14	0.59
031.05	71	-0.0238	1.33	0.49	121.00	13	-0.3765	1.60	0.48
031.06	3	0.0000	1.06	0.30	122.00	13	-0.2856	2.09	0.38
031.99	11	0.6997	1.78	0.45	124.00	11	0.5882	1.68	0.40
032.01	24	0.0000	0.99	0.18	124.02	2	0.0000	1.01	0.48
032.02	8	0.0000	1.01	0.22	125.00	13	-0.0776	0.95	0.58
032.05	56	-0.0781	1.10	0.30	126.00	13	0.0648	0.93	0.48
032.99	5	-2.1905	4.98	0.23	127.00	13	0.1233	1.06	0.19
033.00	22	-0.1192	2.15	0.37	128.00	13	0.0409	0.94	0.26
033.01	36	0.1288	1.48	0.27	129.00	13	0.0320	0.94	0.43
033.03	9	-0.5155	1.79	0.33	130.00	18	0.1850	1.16	0.47
033.99	9	1.6024	3.38	0.16	131.00	12	0.0000	1.01	0.15
034.04	7	0.0000	1.03	0.13	131.02	2	0.0000	1.22	0.03
034.99	3	0.0000	0.42	0.85	132.00	13	0.0000	0.93	0.41
035.00	26	-0.1998	1.37	0.40	133.00	11	0.0000	0.99	0.25
035.01	3	0.0000	1.02	0.36	134.00	13	0.3279	1.50	0.38
035.03	54	0.7648	3.00	0.37	135.00	13	0.4080	1.72	0.43
035.05	12	-0.0864	1.16	0.41	136.01	5	1.5463	3.56	0.33
035.99	3	-13.8600	24.02	0.37	136.99	2	0.0000	1.20	0.16
036.03	21	0.2872	2.82	0.31	137.00	8	0.0000	1.02	0.15
036.04	2	0.0000	1.11	0.37	138.00	13	-0.2964	1.35	0.20
037.01	27	0.0877	1.81	1.05					
037.03	30	0.6681	2.30	0.56					
037.05	32	-0.0608	1.36	0.34					
037.99	5	0.0000	0.89	0.52					
038.00	8	0.3561	2.25	1.87					
039.02	4	0.0000	0.80	0.63					
041.00	4	0.0000	0.92	0.49					
045.00	7	0.0000	1.03	0.17					
045.02	11	0.0000	1.00	0.23					