

Feed Check Sample No. - 200932 Chicken Starter/Grower, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 199 Labs - - Pass 2 Results for 199 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	0.95500	0.12021	0.17000	1	0.95500	0.12021	0.17000
Loss on Drying, Vac 95 deg 5 hr .....	934.01	001.00	11	9.85909	0.40756	0.12364	10	9.82900	0.40808	0.08600
Loss on Drying, ISO 6496 .....		001.03	6	9.94000	0.58857	0.10333	6	9.94000	0.58857	0.10333
Loss on Drying, LECO .....		001.05	1	8.62500	0.00707	0.01000	1	8.62500	0.00707	0.01000
Loss on Drying, 104 deg 3 hr, in malt ..	935.29	001.07	34	9.83490	0.35817	0.11038	32	9.82458	0.34860	0.08228
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	9.89000	0.14142	0.20000	1	9.89000	0.14142	0.20000
Loss on Drying, Misc .....		001.99	17	9.83235	0.40146	0.13412	16	9.82219	0.40560	0.10688
Method Group 001.XX PCT			70	9.83059	0.41820	0.11747	66	9.81798	0.41711	0.09141
Protein, Crude .....	954.01	002.00	5	17.7190	0.52460	0.26200	5	17.7190	0.52460	0.26200
Protein, Auto Kjel-Foss .....	976.05	002.01	9	17.2638	0.23586	0.07400	9	17.2638	0.23586	0.07400
Protein, Semiauto Autoanalyzer .....	976.06	002.02	6	17.5680	0.45920	0.23700	6	17.5680	0.45920	0.23700
Protein, Copper Cat .....	984.13	002.04	5	17.5240	0.17405	0.11600	5	17.5240	0.17405	0.11600
Protein, Copper, Boric Acid .....		002.05	14	17.4672	0.39278	0.17048	14	17.4672	0.39278	0.17048
Protein, Combustion Nitrogen Analyzer	990.03	002.06	125	17.6772	0.33276	0.14007	120	17.6808	0.31729	0.12666
Protein, Cu/Ti .....	988.05	002.08	5	17.5330	0.24708	0.07624	5	17.5330	0.24708	0.07624
Protein, Block dig/distillation .....		002.10	12	17.5391	0.33964	0.15008	11	17.5904	0.29426	0.11555
Protein, NIR .....		002.11	12	17.3156	0.32978	0.14650	11	17.3034	0.33360	0.11436
Protein, Misc .....		002.99	4	17.9550	0.32654	0.11500	4	17.9550	0.32654	0.11500
Method Group 002.XX PCT			197	17.6088	0.36194	0.14352	190	17.6135	0.35187	0.13123
Fat, Eth Ext, Direct .....	920.39	003.00	22	3.81825	0.16431	0.07806	21	3.81197	0.16227	0.06749
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	3.62500	0.30406	0.43000	1	3.62500	0.30406	0.43000
Fat, Pet Ether .....		003.06	25	3.71400	0.23943	0.07120	24	3.71646	0.23929	0.05458
Fat, Soxtec, Eth Ext .....		003.09	25	3.78533	0.16254	0.07553	24	3.78784	0.16051	0.06243
Fat, Soxtec, Pet Ether .....		003.10	26	3.61352	0.19331	0.07665	25	3.61206	0.19473	0.06772
Fat, NIR .....		003.11	13	3.58994	0.27865	0.05418	13	3.58994	0.27865	0.05418
Fat, Hexane Ext. ....		003.12	4	3.67875	0.23973	0.02250	4	3.67875	0.23973	0.02250
Fat, Soxtec, Hexane Ext. ....		003.13	6	3.69608	0.26196	0.08983	6	3.69608	0.26196	0.08983
Fat, Ankom .....		003.14	14	3.59571	0.32047	0.13571	13	3.59538	0.32205	0.10000
Fat, Misc .....		003.99	9	3.62072	0.34118	0.20522	9	3.62072	0.34118	0.20522
Method Group 003.XX PCT			145	3.69344	0.24414	0.08889	140	3.69263	0.24401	0.07735
Fiber, Crude Asbestos Free .....	962.09	004.00	28	3.32856	0.31673	0.13135	28	3.32856	0.31673	0.13135
Fiber, Sing Filt .....		004.01	1	3.76500	0.38891	0.55000	1	3.76500	0.38891	0.55000
Fiber, Fritted Glass .....	978.10	004.03	2	3.49500	0.05066	0.08000	2	3.49500	0.05066	0.08000
Fiber, Fibertec .....		004.06	29	3.57547	0.31563	0.13969	28	3.57817	0.31584	0.12325
Fiber, ANKOM .....		004.07	37	3.15317	0.25686	0.09942	35	3.16849	0.24009	0.08396
Fiber, NIR .....		004.11	13	3.53939	0.30557	0.11400	13	3.53939	0.30557	0.11400
Fiber, Misc .....		004.99	4	3.25125	0.38405	0.10250	4	3.25125	0.38405	0.10250
Method Group 004.XX PCT			114	3.36252	0.34349	0.12289	111	3.36989	0.33705	0.11414
Ash, .....	942.05	005.00	124	6.00344	0.15723	0.05775	117	5.99745	0.15219	0.04334

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Ash, Sugars & Syrups	900.02	005.01	1	5.99500	0.03536	0.05000	1	5.99500	0.03536	0.05000
Ash, LECO		005.02	1	6.20500	0.04950	0.07000	1	6.20500	0.04950	0.07000
Ash, NIR		005.11	6	6.06360	0.28403	0.14467	8	6.19083	0.33381	0.12225
Ash, Misc		005.99	10	6.06690	0.17823	0.09180	9	6.07989	0.17626	0.06867
Method Group 005.XX PCT			142	6.01181	0.16587	0.06385	134	6.00748	0.16249	0.04983
Fiber, Acid Detergent	973.18	008.02	13	4.73346	0.44746	0.14846	12	4.70292	0.44402	0.11083
Fiber, Acid Detergent-Hach		008.05	1	4.65000	0.07071	0.10000	1	4.65000	0.07071	0.10000
Fiber, Acid Detergent by ANKOM		008.08	22	4.40857	0.44085	0.13799	22	4.40857	0.44085	0.13799
Fiber, Acid Detergent Misc		008.99	3	4.61333	0.36806	0.29333	3	4.61333	0.36806	0.29333
Method Group 008.XX PCT			39	4.53881	0.45348	0.15245	38	4.52404	0.44733	0.14068
Fiber, Neutral Det-ENZ Pretreat		009.07	10	11.6675	0.89600	0.43100	10	11.6675	0.89600	0.43100
Fiber, Neutral Detergent by ANKOM		009.09	16	10.9269	0.73224	0.28182	15	10.9243	0.74600	0.23533
Fiber, Neutral Det Misc		009.99	3	13.6267	0.87651	0.41333	3	13.6267	0.87651	0.41333
Method Group 009.XX PCT			29	11.4616	1.13815	0.34687	28	11.4793	1.15088	0.32429
Moisture, Karl-Fischer	966.20	010.03	2	10.4525	1.13785	0.24500	2	10.4525	1.13785	0.24500
Moisture, NIR		010.11	12	10.2601	0.49158	0.07358	11	10.3523	0.39351	0.04764
Moisture, Misc		010.99	11	9.81273	0.84534	0.17273	10	9.93250	0.78353	0.12900
Method Group 010.XX PCT			25	10.0787	0.74715	0.13092	23	10.1785	0.68273	0.10017
Loss on Drying, 135 deg 2 hr	930.15	011.01	72	10.6528	0.30118	0.09792	70	10.6498	0.31174	0.08115
Method Group 011.XX PCT			72	10.6528	0.30118	0.09792	69	10.6613	0.29869	0.07942
Starch, Polarimetric (Ewers)		012.00	7	42.4914	0.78437	0.64857	6	42.4150	0.43299	0.20667
Starch, Megazyme		012.01	3	38.3800	1.33960	0.38000	3	38.3800	1.33960	0.38000
Starch, Enzymatic		012.03	2	40.4225	0.96022	1.10500	2	40.4225	0.96022	1.10500
Starch, YSI Analyzer		012.04	6	39.8617	1.88915	0.31000	5	39.9720	2.05329	0.15600
Starch, NIR		012.11	3	40.2433	0.57926	0.30000	3	40.2433	0.57926	0.30000
Starch, Misc		012.99	1	44.3750	0.10607	0.15000	1	44.3750	0.10607	0.15000
Method Group 012.XX PCT			22	40.8045	2.01408	0.49091	20	40.7720	1.99156	0.32100
Fat, Mojonier, Bak Ext	954.02	013.02	32	4.94464	0.42959	0.13691	32	4.94464	0.42959	0.13691
Fat, Soxtec-Acid Hydrolysis		013.10	13	4.65177	0.58569	0.14338	13	4.65177	0.58569	0.14338
Fat, Super Critical Fluid Extraction		013.11	2	4.20500	0.50123	0.47000	2	4.20500	0.50123	0.47000
Fat, NIR-Acid Hydrolysis		013.12	2	4.07500	0.20632	0.06000	2	4.07500	0.20632	0.06000
Fat, Ankon-Acid Hydrolysis		013.13	1	5.22500	0.34648	0.49000	1	5.22500	0.34648	0.49000
Fat, Pretreat or extended ext, misc		013.99	2	5.01500	0.59467	0.00000	2	5.01500	0.59467	0.00000
Method Group 013.XX PCT			52	4.81763	0.52331	0.14990	52	4.81763	0.52331	0.14990
Aluminum, ICP		015.00	12	206.380	23.0002	3.17250	11	203.687	21.9902	2.18818
Method Group 015.XX PPM			12	206.380	23.0002	3.17250	11	203.687	21.9902	2.18818
Arsenic, AA, Hydride		016.00	1	0.08250	0.00354	0.00500	1	0.08250	0.00354	0.00500
Boron, ICP		017.00	8	9.57000	1.01867	0.38750	8	9.57000	1.01867	0.38750
Boron, Misc		017.99	1	8.15000	0.21213	0.30000	1	8.15000	0.21213	0.30000

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Method Group 017.XX PPM			9	9.41222	1.06260	0.37778	9	9.41222	1.06260	0.37778
Cadmium, AA		018.01	1	0.06750	0.00354	0.00500	1	0.06750	0.00354	0.00500
Cadmium, ICP		018.02	4	0.10600	0.01250	0.00475	4	0.10600	0.01250	0.00475
Method Group 018.XX PPM			5	0.09830	0.01966	0.00480	5	0.09830	0.01966	0.00480
Calcium, Ox-Mn04 Vol	927.02	019.00	7	1.03789	0.09327	0.02360	7	1.02146	0.12033	0.01074
Calcium, At Abs Spect	968.08	019.01	43	1.04278	0.04932	0.02777	39	1.03928	0.04345	0.01638
Calcium, Hach Method		019.02	1	0.94500	0.02121	0.03000	1	0.94500	0.02121	0.03000
Calcium, Semiauto (Autoanalyzer)		019.03	4	1.08510	0.04788	0.02585	4	1.08510	0.04788	0.02585
Calcium, ICP, Dry Ash		019.05	41	1.03340	0.05223	0.01705	39	1.03280	0.05265	0.01369
Calcium, EDTA		019.08	6	1.03583	0.05435	0.02167	6	1.03583	0.05435	0.02167
Calcium, ICP, Wet Ash		019.09	30	1.04072	0.04711	0.02710	29	1.04081	0.04635	0.02354
Calcium, Misc		019.99	5	1.07180	0.07788	0.00680	5	1.07180	0.07788	0.00680
Method Group 019.XX PCT			137	1.04055	0.05495	0.02313	129	1.04034	0.05261	0.01727
Chromium, AA		020.00	1	2.75000	0.07071	0.10000	1	2.75000	0.07071	0.10000
Chromium, ICP		020.01	9	2.98567	0.65458	0.18333	9	2.98567	0.65458	0.18333
Chromium, Misc		020.99	1	2.64500	0.03536	0.05000	1	2.64500	0.03536	0.05000
Method Group 020.XX PPM			11	2.93327	0.60052	0.16364	11	2.93327	0.60052	0.16364
Cobalt, AA	968.08	021.01	2	0.85000	0.10000	0.10000	2	0.85000	0.10000	0.10000
Cobalt, ICP		021.02	14	0.73025	0.17103	0.09136	12	0.74662	0.15427	0.05592
Cobalt, Misc		021.99	1	0.69250	0.01344	0.01900	1	0.69250	0.01344	0.01900
Method Group 021.XX PPM			17	0.74212	0.16287	0.08812	15	0.75680	0.14658	0.05933
Copper, AA	968.08	022.01	23	14.3055	1.54991	0.65952	22	14.2058	1.47484	0.55314
Copper, ICP, Dry Ash	968.08	022.03	30	13.8402	1.24020	0.71087	29	13.7830	1.18874	0.63193
Copper, ICP, Wet Ash	968.08	022.05	30	14.4311	1.12411	0.54703	28	14.5041	1.04844	0.40111
Copper, Misc		022.99	3	13.2398	1.49482	1.37700	3	13.2398	1.49482	1.37700
Method Group 022.XX PPM			86	14.1498	1.32708	0.66322	82	14.1228	1.27632	0.55923
Fluorine, Ion Sel Elect	975.08	023.01	1	0.00100	0.00000	0.00000	1	0.00100	0.00000	0.00000
Iron, AA	968.08	025.01	21	311.493	20.8535	6.69410	20	314.393	16.5687	6.47880
Iron, ICP, Dry Ash	968.08	025.03	35	302.813	18.5941	7.63414	33	302.001	17.6009	6.04939
Iron, ICP, Wet Ash	968.08	025.05	27	297.411	22.8502	10.0607	25	296.244	21.1446	7.42560
Iron, Misc		025.99	2	321.012	7.57606	8.45700	2	321.012	7.57606	8.45700
Method Group 025.XX PPM			85	303.670	21.1324	8.19206	80	303.775	19.6933	6.64700
Lead, .....		026.00	2	0.51275	0.39156	0.05050	2	0.51275	0.39156	0.05050
Lead, Misc		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 026.XX PPM			3	0.34183	0.40262	0.03367	3	0.34183	0.40262	0.03367
Magnesium, AA	968.08	027.01	19	0.18519	0.00838	0.00457	19	0.18519	0.00838	0.00457
Magnesium, ICP, Dry Ash	968.08	027.03	32	0.18575	0.00964	0.00342	31	0.18549	0.00959	0.00306
Magnesium, ICP, Wet Ash	968.08	027.05	23	0.18015	0.00956	0.00645	23	0.18015	0.00956	0.00645
Magnesium, Misc		027.99	1	0.17000	0.00000	0.00000	1	0.17000	0.00000	0.00000

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Method Group 027.XX PCT			75	0.18368	0.00965	0.00460	74	0.18354	0.00960	0.00446
Manganese, Color	917.04	028.00	1	81.4000	0.28284	0.40000	1	81.4000	0.28284	0.40000
Manganese, AA	968.08	028.01	20	85.8845	5.72627	1.76335	20	85.8845	5.72627	1.76335
Manganese, ICP, Dry Ash	968.08	028.03	33	84.7804	5.19042	2.16497	32	84.6798	5.16360	1.92013
Manganese, ICP, Wet Ash	968.08	028.05	31	87.0445	5.07817	2.15523	29	86.8337	5.07474	1.75903
Manganese, Misc		028.99	2	76.0400	7.25021	2.19000	2	76.0400	7.25021	2.19000
Method Group 028.XX PPM			87	85.6012	5.55507	2.04946	84	85.4655	5.54124	1.81551
Phosphorus, Photometric	965.17	031.01	46	0.72233	0.02992	0.01173	42	0.72140	0.02884	0.00748
Phosphorus, GQMP (2.028)	964.06	031.02	3	0.73695	0.00399	0.00377	3	0.73695	0.00399	0.00377
Phosphorus, Autoanalyzer		031.03	6	0.74463	0.03345	0.01208	5	0.73355	0.02147	0.00650
Phosphorus, ICP		031.05	70	0.72980	0.03800	0.01351	67	0.72972	0.03664	0.01154
Phosphorus, Hach Method		031.06	2	0.75750	0.02500	0.02500	2	0.75750	0.02500	0.02500
Phosphorus, Misc		031.99	6	0.73250	0.03696	0.01167	6	0.73250	0.03696	0.01167
Method Group 031.XX PCT			133	0.72858	0.03488	0.01270	125	0.72783	0.03337	0.01001
Potassium, AA	975.03	032.01	22	0.85515	0.05363	0.02110	21	0.85067	0.05002	0.01876
Potassium, Flame Emission	956.01	032.02	5	0.88300	0.01529	0.00880	5	0.88300	0.01529	0.00880
Potassium, ICP		032.05	59	0.85803	0.04640	0.02300	57	0.85563	0.04442	0.02081
Potassium, Misc		032.99	1	0.86000	0.00000	0.00000	1	0.86000	0.00000	0.00000
Method Group 032.XX PCT			87	0.85876	0.04713	0.02144	84	0.85607	0.04487	0.01934
Salt, Sol Cl	943.01	033.00	23	0.68165	0.05060	0.01101	24	0.67596	0.05677	0.01180
Salt, Poten Cl	969.10	033.01	26	0.69113	0.01584	0.00881	23	0.69050	0.01459	0.00483
Salt, Quantab		033.03	7	0.69357	0.07132	0.01000	6	0.70083	0.07379	0.00167
Salt, Ion Sel Electrode		033.05	1	0.69000	0.01414	0.02000	1	0.69000	0.01414	0.02000
Salt, Misc		033.99	8	0.67075	0.08752	0.01250	10	0.71435	0.11927	0.01430
Method Group 033.XX PCT			65	0.68551	0.04950	0.01034	61	0.68558	0.05045	0.00810
Selenium, Fluor	969.06	034.01	1	0.49150	0.00919	0.01300	1	0.49150	0.00919	0.01300
Selenium, AA, Hydride		034.04	7	0.50228	0.06945	0.02399	7	0.50228	0.06945	0.02399
Selenium, ICP		034.05	6	0.48123	0.05430	0.02658	5	0.48270	0.05616	0.01420
Selenium, Misc		034.99	2	0.39250	0.07805	0.05500	2	0.39250	0.07805	0.05500
Method Group 034.XX PPM			16	0.47999	0.06987	0.02815	15	0.48040	0.07128	0.02413
Sodium, AA		035.00	20	0.32807	0.02353	0.00959	20	0.32807	0.02353	0.00959
Sodium, Ion Sel Electrode		035.01	2	0.34175	0.01588	0.00650	2	0.34175	0.01588	0.00650
Sodium, ICP		035.03	51	0.32474	0.01566	0.00957	49	0.32408	0.01519	0.00852
Sodium, Flame Emission	956.01	035.05	10	0.34250	0.02285	0.01060	10	0.34250	0.02285	0.01060
Sodium, Misc		035.99	1	0.34000	0.00000	0.00000	1	0.34000	0.00000	0.00000
Method Group 035.XX PCT			84	0.32824	0.01948	0.00951	82	0.32792	0.01941	0.00888
Sulfur, (Gravimetric)		036.00	1	0.24000	0.00000	0.00000	1	0.24000	0.00000	0.00000
Sulfur, ICP		036.03	22	0.24760	0.02408	0.00599	20	0.24972	0.02344	0.00448
Sulfur, LECO		036.04	1	0.25000	0.00000	0.00000	1	0.25000	0.00000	0.00000

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Method Group 036.XX PCT			24	0.24738	0.02309	0.00550	22	0.24929	0.02241	0.00408
Zinc, AA	968.08	037.01	23	104.475	7.68091	4.03283	22	103.811	6.93241	3.50477
Zinc, ICP, Dry Ash	968.08	037.03	35	103.144	6.95557	2.35483	33	102.703	6.43663	1.85633
Zinc, ICP, Wet Ash	968.08	037.05	25	105.042	8.71719	3.91600	23	104.967	8.66761	2.73478
Zinc, Misc		037.99	3	103.975	10.6239	0.88200	3	103.975	10.6239	0.88200
Method Group 037.XX PPM			86	104.081	7.79703	3.21942	81	103.694	7.41203	2.51741
Molybdenum, ICP		038.00	8	1.27025	0.12633	0.09050	7	1.27314	0.11308	0.04914
Molybdenum, Misc		038.99	1	1.50000	0.00000	0.00000	1	1.50000	0.00000	0.00000
Method Group 038.XX PPM			9	1.29578	0.14000	0.08044	8	1.30150	0.13072	0.04300
Nickel, AA		039.01	1	2.05000	0.07071	0.10000	1	2.05000	0.07071	0.10000
Nickel, ICP		039.02	5	2.62410	0.22533	0.10920	5	2.62410	0.22533	0.10920
Method Group 039.XX PPM			6	2.52842	0.30321	0.10767	6	2.52842	0.30321	0.10767
Barium, ICP		040.00	2	5.56900	0.22400	0.21900	2	5.56900	0.22400	0.21900
Method Group 040.XX PPM			2	5.56900	0.22400	0.21900	2	5.56900	0.22400	0.21900
Vanadium, ICP		041.00	4	1.66663	0.25749	0.24100	3	1.69133	0.01446	0.00567
Method Group 041.XX PPM			4	1.66663	0.25749	0.24100	3	1.69133	0.01446	0.00567
Amprolium, Color	961.24	045.00	5	0.01268	0.00101	0.00036	5	0.01268	0.00101	0.00036
Amprolium, HPLC		045.02	9	0.01144	0.00135	0.00024	9	0.01144	0.00135	0.00024
Method Group 045.XX PCT			14	0.01189	0.00136	0.00029	14	0.01189	0.00136	0.00029
Bacitracin, Plate	957.24	048.00	1	130.100	0.70711	1.00000	1	130.100	0.70711	1.00000
Bacitracin, Plate MeOH Ext		048.01	1	123.500	0.70711	1.00000	1	123.500	0.70711	1.00000
Method Group 048.XX G/TON			2	126.800	3.85400	1.00000	2	126.800	3.85400	1.00000
Chlorotetracycline, HPLC		051.03	1	359.000	7.07107	10.0000	1	359.000	7.07107	10.0000
Tiamulin		086.00	1	36.2000	1.97990	2.80000	1	36.2000	1.97990	2.80000
Choline Chloride, Chem		101.01	1	806.000	48.0833	68.0000	1	806.000	48.0833	68.0000
Niacin, Chem	961.14	102.00	1	41.5650	0.61518	0.87000	1	41.5650	0.61518	0.87000
Niacin, Micro	944.13	102.01	1	39.0650	0.41719	0.59000	1	39.0650	0.41719	0.59000
Method Group 102.XX MG/LB			2	40.3150	1.50582	0.73000	2	40.3150	1.50582	0.73000
Pantothenic Acid, Microbiological	945.74	103.01	1	2.10000	0.00000	0.00000	1	2.10000	0.00000	0.00000
Pantothenic Acid, Misc		103.99	1	8.69500	0.03536	0.05000	1	8.69500	0.03536	0.05000
Method Group 103.XX MG/LB			2	5.39750	3.80768	0.02500	2	5.39750	3.80768	0.02500
Riboflavin, Fluorometric	970.65	104.00	4	4.54000	0.57084	0.19500	4	4.54000	0.57084	0.19500
Method Group 104.XX MG/LB			4	4.54000	0.57084	0.19500	4	4.54000	0.57084	0.19500
Thiamine, HPLC		105.00	2	2.18250	0.72734	0.56500	2	2.18250	0.72734	0.56500
Thiamine	942.23	105.01	1	4.09500	0.31820	0.45000	1	4.09500	0.31820	0.45000
Method Group 105.XX MG/LB			3	2.82000	1.14588	0.52667	3	2.82000	1.14588	0.52667
Vitamin A, Color	974.29	106.00	1	3.30000	0.14142	0.20000	1	3.30000	0.14142	0.20000
Vitamin A, HPLC		106.02	14	3.24141	0.94334	0.28454	14	3.24141	0.94334	0.28454
Method Group 106.XX KU/LB			15	3.24531	0.91073	0.27891	15	3.24531	0.91073	0.27891

- Pass 1 Results for 199 Labs - - Pass 2 Results for 199 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 B12, .....	952.20	107.00	2	16.9350	2.79257	0.36000	2	16.9350	2.79257	0.36000
Method Group 107.XX MCG/L			2	16.9350	2.79257	0.36000	2	16.9350	2.79257	0.36000
Vitamin D3, HPLC .....	982.29	108.01	2	0.57325	0.62739	0.1350	2	0.57325	0.62739	0.1350
Vitamin D3, HPLC .....		108.02	3	3.06333	1.14026	0.38667	3	3.06333	1.14026	0.38667
Method Group 108.XX KU/LB			5	2.06730	1.58335	0.23740	5	2.06730	1.58335	0.23740
Vitamin E, HPLC .....		109.02	9	31.5540	11.7586	0.93793	9	31.5540	11.7586	0.93793
Vitamin E, Misc .....		109.99	1	26.5000	0.70711	1.00000	1	26.5000	0.70711	1.00000
Method Group 109.XX MG/KG			10	31.0486	11.2319	0.94414	10	31.0486	11.2319	0.94414
Pyridoxine, (Vitamin B6) .....	961.15	112.00	2	9.38750	0.16681	0.19500	2	9.38750	0.16681	0.19500
Method Group 112.XX MCG/G			2	9.38750	0.16681	0.19500	2	9.38750	0.16681	0.19500
Folic Acid, .....	944.12	113.01	2	1.17250	0.11899	0.13500	2	1.17250	0.11899	0.13500
Method Group 113.XX MG/KG			2	1.17250	0.11899	0.13500	2	1.17250	0.11899	0.13500
Biotin, Microbiological .....		114.01	1	0.22250	0.00354	0.00500	1	0.22250	0.00354	0.00500
Alanine, Post-col Ninhydrin Der .....	994.12	120.00	12	0.95767	0.02907	0.01633	12	0.95767	0.02907	0.01633
Alanine, Pre-col AQC Der .....		120.05	2	0.98875	0.03061	0.00650	2	0.98875	0.03061	0.00650
Method Group 120.XX PCT			14	0.96211	0.03077	0.01493	14	0.96211	0.03077	0.01493
Arginine, Post-col Ninhydrin Der .....	994.12	121.00	12	1.08638	0.03450	0.01942	12	1.08638	0.03450	0.01942
Arginine, Pre-col AQC Der .....		121.05	2	1.15000	0.01826	0.03000	2	1.15000	0.01826	0.03000
Method Group 121.XX PCT			14	1.09546	0.03956	0.02093	14	1.09546	0.03956	0.02093
Aspartic, Post-col Ninhydrin Der .....	994.12	122.00	13	1.57486	0.03742	0.03508	13	1.57486	0.03742	0.03508
Aspartic, Pre-col AQC Der .....		122.05	1	1.58500	0.06364	0.09000	1	1.58500	0.06364	0.09000
Method Group 122.XX PCT			14	1.57559	0.03813	0.03900	14	1.57559	0.03813	0.03900
Cysteine/Cystine, PAO Post-col Ninhydrin Der .....	994.12	124.00	9	0.27156	0.01885	0.00778	9	0.27156	0.01885	0.00778
Cysteine/Cystine, PAO Post-col OPA Der .....		124.02	2	0.28125	0.01300	0.00050	2	0.28125	0.01300	0.00050
Cysteine/Cystine, PAO Pre-col AQC Der .....		124.05	2	0.31625	0.02222	0.02650	2	0.31625	0.02222	0.02650
Method Group 124.XX PCT			13	0.27992	0.02414	0.00954	13	0.27992	0.02414	0.00954
Glutamic, Post-col Ninhydrin Der .....	994.12	125.00	13	2.97881	0.13320	0.06489	12	2.96558	0.12210	0.04500
Glutamic, Pre-col AQC Der .....		125.05	2	3.18000	0.13880	0.01000	2	3.18000	0.13880	0.01000
Method Group 125.XX PCT			15	3.00563	0.14875	0.05757	14	2.99621	0.14380	0.04000
Glycine, Post-col Ninhydrin Der .....	994.12	126.00	12	0.90229	0.03208	0.01508	12	0.90229	0.03208	0.01508
Glycine, Pre-col AQC Der .....		126.05	2	0.94925	0.05344	0.01350	2	0.94925	0.05344	0.01350
Method Group 126.XX PCT			14	0.90900	0.03839	0.01486	14	0.90900	0.03839	0.01486
Histidine, Post-col Ninhydrin Der .....	994.12	127.00	12	0.45296	0.02665	0.01325	11	0.44818	0.02035	0.00927
Histidine, Pre-col AQC Der .....		127.05	2	0.45625	0.02793	0.00650	2	0.45625	0.02793	0.00650
Method Group 127.XX PCT			14	0.45343	0.02633	0.01229	13	0.44942	0.02122	0.00885
Isoleucine, Post-col Ninhydrin Der .....	994.12	128.00	12	0.64433	0.03100	0.01550	12	0.64433	0.03100	0.01550
Isoleucine, Pre-col AQC Der .....		128.05	2	0.67700	0.04114	0.01900	2	0.67700	0.04114	0.01900
Method Group 128.XX PCT			14	0.64900	0.03380	0.01600	14	0.64900	0.03380	0.01600
Leucine, Post-col Ninhydrin Der .....	994.12	129.00	13	1.43473	0.06052	0.04064	12	1.43042	0.05497	0.02900

- Pass 1 Results for 199 Labs - - Pass 2 Results for 199 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
Leucine, Pre-col AQC Der		129.05	2	1.47500	0.04041	0.00000	2	1.47500	0.04041	0.00000
Method Group 129.XX PCT			15	1.44010	0.05933	0.03522	14	1.43679	0.05484	0.02486
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	19	0.86198	0.05281	0.01997	18	0.85834	0.04825	0.01225
L-Lysine, Pre-col OPA Der		130.01	1	0.89500	0.00707	0.01000	1	0.89500	0.00707	0.01000
L-Lysine, Pre-col AQC Der		130.05	4	0.84925	0.04938	0.01850	4	0.84925	0.04938	0.01850
L-Lysine, Misc		130.99	1	0.85000	0.01414	0.02000	1	0.85000	0.01414	0.02000
Method Group 130.XX PCT			25	0.86079	0.05035	0.01934	24	0.85801	0.04665	0.01352
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	14	0.26917	0.01851	0.00828	14	0.26917	0.01851	0.00828
Methionine, PAO Pre-col OPA Der		131.01	1	0.32150	0.00212	0.00300	1	0.32150	0.00212	0.00300
Methionine, PAO Post-col OPA Der		131.02	2	0.29925	0.01832	0.01350	2	0.29925	0.01832	0.01350
Methionine, PAO Pre-col AQC Der		131.05	4	0.27363	0.05575	0.01275	4	0.27363	0.05575	0.01275
Method Group 131.XX PCT			21	0.27537	0.03110	0.00938	21	0.27537	0.03110	0.00938
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	12	0.78792	0.03697	0.01817	12	0.78792	0.03697	0.01817
Phenylalanine, Pre-col AQC Der		132.05	2	0.81525	0.01986	0.01250	2	0.81525	0.01986	0.01250
Method Group 132.XX PCT			14	0.79182	0.03609	0.01736	14	0.79182	0.03609	0.01736
Proline, Post-col Ninhydrin Der	994.12	133.00	10	1.10940	0.03632	0.02060	10	1.10940	0.03632	0.02060
Proline, Pre-col AQC Der		133.05	2	1.19500	0.10247	0.05000	2	1.19500	0.10247	0.05000
Method Group 133.XX PCT			12	1.12367	0.05934	0.02550	12	1.12367	0.05934	0.02550
Serine, Post-col Ninhydrin Der	994.12	134.00	13	0.78747	0.04278	0.01590	13	0.78747	0.04278	0.01590
Serine, Pre-col AQC Der		134.05	2	0.88175	0.02108	0.00050	2	0.88175	0.02108	0.00050
Method Group 134.XX PCT			15	0.80004	0.05183	0.01385	15	0.80004	0.05183	0.01385
Threonine, Post-col Ninhydrin Der	994.12	135.00	12	0.62596	0.01518	0.01175	12	0.62596	0.01518	0.01175
Threonine, Pre-col AQC Der		135.05	3	0.65267	0.02531	0.00867	3	0.65267	0.02531	0.00867
Method Group 135.XX PCT			15	0.63130	0.02028	0.01113	15	0.63130	0.02028	0.01113
Tryptophan, Alka-Hydrol Post-col Ninhydrin Der	988.15	136.00	1	0.20900	0.00849	0.01200	1	0.20900	0.00849	0.01200
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	5	0.20060	0.00692	0.00240	5	0.20060	0.00692	0.00240
Tryptophan, Alka-Hydrol+IS Rev Phase LC		136.03	1	0.20000	0.00283	0.00400	1	0.20000	0.00283	0.00400
Tryptophan, Misc		136.99	2	0.20350	0.00551	0.00900	2	0.20350	0.00551	0.00900
Method Group 136.XX PCT			9	0.20211	0.00658	0.00511	9	0.20211	0.00658	0.00511
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	7	0.54707	0.05574	0.01786	7	0.54707	0.05574	0.01786
Tyrosine, Pre-col AQC Der		137.05	2	0.52150	0.11838	0.02400	2	0.52150	0.11838	0.02400
Method Group 137.XX PCT			9	0.54139	0.07049	0.01922	9	0.54139	0.07049	0.01922
Valine, Post-col Ninhydrin Der	994.12	138.00	12	0.79258	0.03957	0.02050	12	0.79258	0.03957	0.02050
Valine, Pre-col AQC Der		138.05	2	0.81075	0.06724	0.03450	2	0.81075	0.06724	0.03450
Method Group 138.XX PCT			14	0.79518	0.04333	0.02250	14	0.79518	0.04333	0.02250
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.06000	0.00000	0.00000	1	0.06000	0.00000	0.00000

## Laboratory Averages &amp; 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 002.06	--
265	0.9550	-.71	035	9.9700	.42	505	9.9700	.37	036	17.473	-.25	777	18.140 R	1.69
--	Method 001.00	--	689	9.9500	.39	629	9.9050	.26	307	17.400	-.75	738	18.205	1.65
001	10.605	1.90	089	9.9100	.25	Avg	9.8222		169	16.905	-1.49	345	18.190	1.61
560	10.160 R	1.02	588	9.8950	.20	631	9.8050	-.06	--	Method 002.04	--	504	18.120	1.43
504	10.135	.79	843	9.8700	.17	630	9.7550	-.21	509	20.560 s	17.46	781	18.120	1.40
861	10.075	.60	413	9.8500	.16	853	9.7150	-.41	504	17.700	1.05	179	18.105	1.34
309	9.9650	.34	581	9.8450	.12	681	9.5450	-.69	187	17.670	.89	510	18.100	1.32
169	9.8650	.12	187	9.8300	.06	729	9.5550	-.80	018	17.525	.49	233	18.090	1.29
844	9.8500	.06	Avg	9.8246		619	9.5000	-.83	Avg	17.524		011	17.950 R	1.25
Avg	9.8290		592	9.8100	-.04	788	9.3250	-1.23	868	17.440	-.50	160	18.050	1.17
029	9.7500	-.21	038	9.7865	-.12	720	8.9400	-2.18	405	17.285	-1.46	759	18.045	1.15
785	9.5250	-.82	353	9.7950	-.13	536	8.5350 S	-3.17	--	Method 002.05	--	263	18.035	1.12
016	9.3700	-1.13	675	9.7800	-.14	541	8.3050 S	-3.76	852	18.250	2.00	100	17.840 R	1.02
509	9.1500	-1.67	307	9.7500	-.26	--	Method 002.00	--	852	18.250	2.00	108	17.990	1.01
--	Method 001.03	--	297	9.7350	-.32	845	18.360	1.24	674	17.825	1.12	853	17.970	.98
867	11.010	1.82	693	9.7050	-.36	028	18.140	.80	178	17.750	.96	508	17.949	.94
868	10.050	.21	669	9.6850	-.41	Avg	17.719		083	17.830	.94	554	17.970	.94
567	9.9500	.09	049	9.8000	-.46	199	17.590	-.42	855	17.810	.90	626	17.965	.90
Avg	9.9400		004	9.6000	-.71	869	17.445	-.54	194	17.640	.44	019	17.960	.88
688	9.9000	-.18	845	9.6500 R	-.78	826	17.060	-1.36	Avg	17.467		824	17.950	.86
686	9.5450	-.67	695	9.5450	-.80	--	Method 002.01	--	622	17.355	-.31	148	17.930	.82
727	9.1850	-1.29	278	9.4100	-1.19	870	17.520	1.14	039	17.286	-.46	598	17.925	.81
--	Method 001.05	--	171	9.2600	-1.62	723	17.515	1.07	354	17.280	-.48	029	17.910	.73
610	8.6250	.71	609	9.2500	-1.65	652	17.450	.82	651	17.250	-.56	413	17.850	.71
--	Method 001.07	--	345	8.8500	-2.80	350	17.449	.79	689	17.150	-.82	199	17.895	.71
045	90.600 s	231.71	618	6.4100 s	-9.80	716	17.300	.15	552	17.095	-1.01	229	17.895	.68
178	10.750	2.66	--	Method 001.08	--	Avg	17.264		620	17.085	-1.03	843	17.780	.65
142	10.500	1.96	590	9.8900	-.71	653	17.185	-.33	536	16.935	-1.36	096	17.700	.63
366	10.350 R	1.81	--	Method 001.99	--	685	17.055	-.90	--	Method 002.06	--	865	17.870	.63
098	10.200	1.08	405	10.610	1.94	098	17.000	-1.20	687	19.050 s	4.32	809	17.830	.62
199	10.135	.89	096	10.400	1.42	848	16.900	-1.55	739	18.435	2.44	546	17.825	.58
559	10.065	.73	615	9.9950 R	.82	--	Method 002.02	--	002	18.430	2.41	034	17.845	.52
616	10.075	.72	357	10.090	.66	297	18.115	1.22	018	18.410	2.30	074	17.835	.49
074	10.000	.57	037	10.070	.63	152	18.050	1.06	511	18.385	2.22	144	17.795	.43
571	9.9800	.45	510	10.000	.44	Avg	17.568		574	18.260	1.95	353	17.805	.42
			656	9.9700	.41	669	17.465	-.22	646	18.235	1.80	788	17.761	.35
									001	18.195	1.71	425	17.775	.33
												171	17.700	.32

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 002.06	--	--	Method 002.06	--	--	Method 002.11	--	--	Method 003.01	--	--	Method 003.06	--
529	17.775	.31	674	17.565	-0.42	859	16.884	-2.54	631	17.135	-0.58	504	3.6250	.71
588	17.775	.30	175	17.550	-0.44	720	16.665	A -3.21	588	17.025	-0.88	--	Method 003.06	--
226	17.750	.27	619	17.550	-0.44	686	16.370	s -4.17	727	16.977	-1.02	869	4.2850	2.39
765	17.750	.27	628	17.535	-0.53	294	16.035	s -5.19	868	16.920	-1.15	688	4.0000	1.18
726	17.745	.20	656	17.525	-0.53	--	Method 002.08	--	567	16.900	-1.25	164	3.9850	1.12
006	17.700	.20	298	17.510	-0.54	--	Method 002.08	--	--	Method 002.99	--	003	3.8750	.82
616	17.720	.18	571	17.510	-0.55	208	17.850	1.30	--	Method 002.99	--	074	3.8850	.71
089	17.735	.17	036	17.505	-0.55	610	17.650	.52	681	18.400	1.37	552	3.8500	.56
682	17.720	.14	027	17.514	-0.61	Avg	17.533		305	18.050	.40	511	3.8400	.56
037	17.710	.13	693	17.485	-0.62	563	17.531	-0.09	Avg	17.955		588	3.8300	.48
265	17.700	.06	615	17.485	-0.63	062	17.489	-0.20	871	17.710	-0.75	682	3.8200	.44
106	17.690	.03	590	17.500	-0.65	309	17.145	-1.58	643	17.660	-0.95	148	3.8100	.40
670	17.685	.02	357	17.470	-0.67	--	Method 002.10	--	--	Method 003.00	--	852	3.8000	.35
Avg	17.681		833	17.480	-0.74	--	Method 002.10	--	--	Method 003.00	--	689	3.7500	.25
354	17.655	-0.08	712	17.475	-0.74	727	19.040	s 4.96	039	4.1145	1.87	229	3.7350	.13
098	17.650	-0.19	014	17.450	-0.74	121	18.095	1.72	563	4.0845	1.76	Avg	3.7165	
610	17.650	-0.19	010	17.435	-0.81	867	18.025	1.48	132	4.0850	1.71	305	3.6700	-0.20
630	17.670	-0.19	051	17.425	-0.82	861	17.765	.66	307	3.9500	R 1.26	669	3.6450	-0.31
049	17.630	-0.20	868	17.495	-0.87	629	17.650	.43	035	3.9200	.67	009	3.6900	-0.43
785	17.625	-0.25	132	17.410	-0.88	619	17.600	.03	175	3.8400	.52	425	3.6050	-0.47
009	17.620	-0.25	278	17.400	-0.89	Avg	17.590		345	3.8950	.51	867	3.6000	-0.49
592	17.600	-0.25	366	17.400	-0.94	675	17.540	-0.17	615	3.8550	.31	169	3.5900	-0.54
539	17.600	-0.26	567	17.350	-1.05	628	17.495	-0.41	726	3.8535	.26	199	3.5850	-0.58
512	17.625	-0.27	589	17.330	-1.13	546	17.435	-0.53	106	3.8500	.23	297	3.5400	-0.76
520	17.605	-0.28	660	17.315	-1.18	631	17.465	-0.65	512	3.8490	.23	574	3.6550	R -1.02
038	17.590	-0.29	647	17.320	-1.18	688	17.350	-0.83	017	3.8250	.17	294	3.3050	-1.72
164	17.595	-0.31	142	17.300	-1.20	160	17.075	-1.77	Avg	3.8120		083	3.2500	-1.95
417	17.650	-0.33	004	17.290	-1.24	729	16.975	R -2.28	179	3.8000	-0.14	559	3.2500	-1.95
821	17.585	-0.35	358	17.290	-1.26	--	Method 002.11	--	509	3.7600	-0.37	870	2.8643	S -3.56
815	17.645	-0.35	016	17.350	R -1.31	--	Method 002.11	--	354	3.7450	-0.42	647	1.8900	s -7.66
003	17.575	-0.35	505	17.265	-1.32	720	18.805	s 4.51	194	3.7350	-0.48	--	Method 003.09	--
035	17.630	-0.35	795	17.235	-1.42	867	17.840	1.61	152	3.7500	-0.49	510	4.0500	1.66
559	17.605	-0.36	168	17.240	-1.47	553	17.620	.97	190	3.7100	-0.76	723	3.9950	1.29
609	17.640	-0.37	047	17.190	-1.55	178	17.450	R .87	026	3.6500	-1.09	620	3.9580	1.06
205	17.575	-0.38	017	17.200	-1.55	536	17.590	.86	848	3.6400	-1.10	098	3.9300	.89
618	17.566	-0.40	541	17.125	-1.85	011	17.550	.75	309	3.6100	-1.32	590	3.8600	.82
692	17.600	-0.41	026	17.050	-1.99	688	17.550	.75	353	3.4800	-2.05	121	3.8565	.64
045	17.600	-0.41	242	17.030	-2.05	Avg	17.303		616	2.8500	s -5.94	--	Method 003.09	--
774	17.550	-0.41	407	16.995	-2.17	665	17.230	-0.23	142	2.1000	s -10.57			

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 003.09	--	--	Method 003.10	--	--	Method 003.13	--	--	Method 004.00	--	--	Method 004.06	--
226	3.8500	.50	868	3.5600	-.37	646	4.0900	1.52	563	3.9848	2.08	609	4.6500	s 3.50
029	3.8250	.47	098	3.5400	-.40	205	3.8565	.65	345	3.9750	2.04	685	4.2300	2.07
002	3.8400	.37	100	3.5850	-.46	187	3.7500	.24	226	3.8000	1.52	716	4.2000	1.99
656	3.7900	.37	242	3.5300	-.47	Avg	3.6961		511	3.6500	1.03	676	4.2055	1.99
651	3.8450	.36	855	3.4850	-.65	028	3.6850	-.10	855	3.5650	.88	845	4.1700	1.93
354	3.8300	.27	695	3.5300	-.66	011	3.4000	-1.13	681	3.5700	.76	620	3.7542	.61
505	3.8000	.26	619	3.4400	-.91	660	3.3950	-1.19	559	3.5550	.74	588	3.7450	.53
038	3.8000	.15	089	3.4300	-.93	--	Method 003.14	--	175	3.4750	.52	869	3.7050	.45
027	3.7955	.14	051	3.4050	-1.06	407	4.3250	2.27	647	3.4300	.47	552	3.7100	.45
350	3.7950	.05	720	3.2400	-1.92	567	3.6000	R .93	510	3.4000	.39	674	3.6450	.37
Avg	3.7878		871	3.1100	-2.58	108	3.8350	.80	509	3.4100	.27	723	3.6850	.34
033	3.7850	-.04	609	2.4300	s -6.07	049	3.7900	.62	354	3.3600	.10	029	3.5850	.33
685	3.7850	-.28	--	Method 003.11	--	598	3.7450	.53	Avg	3.3286		Avg	3.5782	
263	3.7282	-.37	720	4.0800	1.76	413	3.7500	.50	353	3.3100	-.06	848	3.5550	-.11
674	3.7700	-.51	727	3.8592	.97	019	3.6850	.31	194	3.3150	-.06	689	3.5000	-.25
554	3.6350	-.96	567	3.8500	.95	Avg	3.5954		169	3.3000	-.11	098	3.5550	-.25
004	3.7250	R -1.28	536	3.8400	.90	520	3.5750	-.18	199	3.3100	-.23	590	3.4900	-.34
358	3.5550	-1.46	178	3.6500	.28	278	3.5000	-.30	171	3.2650	-.27	354	3.4550	-.40
675	3.5100	-1.73	867	3.6250	.15	686	3.5000	-.30	208	3.2100	-.47	867	3.4400	-.44
653	3.3200	-2.92	011	3.6000	.04	581	3.4900	-.41	190	3.2350	-.49	675	3.4300	-.47
001	3.1500	s -3.98	Avg	3.5899		175	3.3100	-.89	298	3.2000	-.51	205	3.4950	-.64
--	Method 003.10	--	665	3.5750	-.06	853	3.1700	-1.33	164	3.1500	-.59	512	3.3980	-.71
160	3.9200	1.65	631	3.5700	-.08	144	3.0650	-1.65	695	3.1200	-.69	350	3.3565	-.71
676	3.8245	1.09	688	3.4500	-.53	265	2.2000	s -4.34	309	3.1350	-.80	653	3.3300	-.79
298	3.8200	1.07	868	3.2300	-1.29	--	Method 003.99	--	009	3.0700	-.82	656	3.3250	-.81
618	3.8045	.99	588	3.2200	-1.34	536	4.9100	S 3.78	425	2.9500	-1.21	868	3.3200	-.83
689	3.8000	.97	553	3.1200	-1.70	681	4.7150	S 3.21	132	2.9350	-1.30	688	3.3000	-.94
233	3.7700	.83	--	Method 003.12	--	631	3.9550	1.01	504	2.8850	-1.43	027	3.3445	-.95
366	3.6500	R .79	670	3.8750	.82	631	3.6350	.66	726	2.6350	-2.19	178	3.5000	R -.98
865	3.7400	.77	628	3.7950	.49	861	3.8350	.63	--	Method 004.01	--	720	3.2100	-1.17
629	3.7450	.68	171	3.7450	.31	630	3.8350	.63	366	4.6500	S 2.36	610	3.0500	-1.68
045	3.6650	.56	Avg	3.6788		712	3.6750	.57	693	3.7650	.71	--	Method 004.07	--
693	3.7000	.46	357	3.3000	-1.58	727	3.7965	.53	Avg	3.7650		121	4.7950	s 6.78
208	3.7000	.46	--	Method 004.03	--	738	3.7800	.47	--	Method 004.03	--	229	3.6500	2.02
034	3.6900	.40	047	3.6950	.23	047	3.6950	.23	--	Method 004.03	--	019	3.5850	1.80
178	3.6500	.32	Avg	3.6207		Avg	3.6207		619	3.5050	1.10	669	3.5150	1.45
062	3.6175	.12	546	3.2800	-1.31	546	3.2800	-1.31	Avg	3.4950		089	3.5150	1.44
Avg	3.6121		788	2.9350	-2.01	788	2.9350	-2.01	045	3.4850	-.53	033	3.4750	1.34

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 004.07	--	--	Method 004.11	--	--	Method 005.00	--	--	Method 005.00	--	--	Method 005.00	--
643	3.4850	1.32	567	3.6500	.40	848	6.1500	1.00	693	6.0550	.38	205	5.8535	-.95
631	3.4100	1.05	631	3.6400	.38	038	6.1400	1.00	712	6.0500	.35	089	5.8500	-.97
100	3.4100	1.01	536	3.5550	.28	674	6.1400	.94	121	6.0455	.32	855	5.8500	-.98
144	3.3850	.97	Avg	3.5394		045	6.1300	.93	187	6.0450	.31	539	5.9950 R	-1.02
554	3.2000 R	.84	867	3.4900	-.17	062	6.1340	.92	660	6.0350	.30	051	5.8400	-1.04
567	3.3500	.78	011	3.5000	-.35	669	6.1350	.91	871	6.0400	.28	026	5.8350	-1.07
870	3.3373	.78	178	3.3500	-.64	559	6.1300	.89	845	6.0150	.26	670	5.8350	-1.07
592	3.2700	.43	688	3.3500	-.64	868	6.1300	.87	553	6.0300	.25	194	5.8250	-1.13
278	3.2500	.40	588	3.0200	-1.70	869	6.1300	.87	682	6.0200	.25	759	5.8250	-1.16
581	3.2000	.28	720	3.0150	-1.72	164	6.1250	.84	138	6.0250	.24	033	5.8200	-1.17
407	3.1900	.09				242	6.1250	.84	229	6.0300	.22	175	5.8200	-1.17
Avg	3.1685		--	Method 004.99	--	592	6.1200	.81	723	6.0300	.22	027	5.8195	-1.20
074	3.1550	-.06	626	3.7700	1.36	350	6.1165	.78	615	6.0300	.21	358	5.8200	-1.25
098	3.1100	-.26	628	3.3700	.44	675	6.1100	.74	004	6.0150	.20	777	5.8100	-1.31
520	3.1200	-.32	Avg	3.2513		171	6.1000	.70	407	6.0250	.18	179	5.7900	-1.37
686	3.0800	-.37	536	3.0100	-.63	622	6.1032	.70	152	6.0000	.02	541	5.7850	-1.40
646	3.0900	-.39	598	2.8550	-1.03	821	6.1000	.69	Avg	5.9975		417	5.7950	-1.44
003	3.0650	-.49				083	6.1000	.67	656	5.9800	-.13	425	5.7750	-1.46
096	3.0500	-.54	--	Method 005.00	--	567	6.1000	.67	199	5.9850	-.18	049	5.7800	-1.47
610	3.0500	-.54	720	6.4100	2.71	357	6.1000	.67	631	5.9700	-.19	309	5.7650	-1.53
028	3.0500	-.54	619	6.2500 R	1.93	505	6.1000	.67	563	5.9659	-.29	809	5.7600	-1.56
242	3.0100	-.67	852	6.2000 R	1.87	366	6.1000	.67	552	5.9950	-.30	616	5.7500	-1.63
682	3.0000	-.70	588	6.2550	1.69	729	6.0850	.58	653	5.9750	-.33	144	5.7300	-1.78
004	3.0000	-.74	345	6.2550	1.69	765	6.0800	.55	865	5.9450	-.35	774	5.7150	-1.88
035	2.9550	-.89	520	6.0150 R	1.61	305	6.0800	.54	781	5.9300	-.45	609	5.6550	-2.26
505	2.9250	-1.02	297	6.2000 R	1.48	278	6.0700	.52	795	5.9250	-.48	169	5.5850	-2.71
265	2.9000	-1.12	265	6.2000	1.33	035	6.0750	.51	108	5.9600	-.52	294	5.5700	-2.81
026	2.8950	-1.14	716	6.2000	1.33	686	6.0700	.48	001	5.9150	-.57	618	5.1654 s	-5.76
294	2.8650	-1.27	132	6.1900	1.28	298	6.0700	.48	689	5.9050	-.63	--	Method 005.01	--
708	2.8500	-1.33	590	6.1650 R	1.27	148	6.0700	.48	160	5.8950	-.68	--	Method 005.01	--
307	2.8500	-1.34	504	6.1600	1.16	178	6.0500	.48	815	5.9250	-.69	646	5.9950	.71
413	2.8500	-1.47	629	6.1650	1.12	354	6.0650	.45	651	5.8930	-.69	--	Method 005.02	--
160	2.5700 R	-2.59	785	6.1600	1.08	510	6.0300	.45	100	5.8850	-.74	--	Method 005.02	--
--	Method 004.11	--	226	6.1500	1.05	643	6.0600	.43	630	5.8800	-.77	610	6.2050	.71
665	4.0500	1.68	142	6.1500	1.05	870	6.0557	.40	620	5.8700	-.84	--	Method 005.11	--
727	3.8671	1.11	413	6.1500	1.05	695	6.0500	.40	598	5.8700	-.85	--	Method 005.11	--
553	3.7600	.84	688	6.1500	1.05	661	6.0550	.39	853	5.8900	-.88	867	6.5950 S	1.21
868	3.7650	.74	029	6.1500	1.01	353	6.0400	.38	098	5.9000 R	-.92	688	6.5500 S	1.09
			307	6.1250	1.01	739	6.0400	.38	208	5.8600	-.92	588	6.4650	.82

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 005.11	--	--	Method 008.05	--	--	Method 009.07	--	--	Method 010.03	--	--	Method 011.01	--
727	6.2216	.24	265	4.6500	-.71	297	12.030	.40	546	6.8100	S	164	11.095	1.43
Avg	6.0636		Avg	11.668		Avg	11.668		826	6.6650	S	205	11.095	1.43
631	6.1100	-.25	--	Method 008.08	--	592	11.415	-.28	--	Method 010.11	--	559	11.010	1.17
536	6.1050	-.31	083	5.2150	1.83	693	11.265	-.64	--	Method 010.11	--	824	11.000	1.12
178	5.7500	-1.39	001	4.9800	1.32	353	11.080	-.67	178	10.800	1.14	653	10.955	.98
665	5.7300	-1.42	870	4.8887	1.09	226	11.000	-.82	867	10.800	1.14	309	10.915	.97
868	4.6350	S	354	4.8650	1.06	187	10.840	-.92	536	10.570	.59	510	10.900	.80
720	4.6250	S	278	4.8000	.92	098	10.750	-1.10	688	10.500	.38	870	10.858	.67
--	Method 005.99	--	033	4.7100	.70	--	Method 009.09	--	567	10.500	.38	051	10.855	.66
628	6.3550	1.56	049	4.6850	.65	--	Method 009.09	--	631	10.490	.37	777	10.805	.66
861	6.2550	.99	693	4.6750	.64	083	16.465	S	868	10.425	.19	233	10.850	.64
727	6.1840	.59	357	4.6000	.49	510	12.500	2.12	Avg	10.352		739	10.845	.64
652	6.1500	.49	160	4.4550	.48	357	11.900	1.31	727	10.220	-.34	358	10.840	.63
Avg	6.0799		037	4.5450	.31	265	11.600	.99	588	10.230	-.37	520	10.830	.59
681	5.9950	-.52	646	4.4300	.14	354	11.515	.83	720	9.9250	-1.09	759	10.820	.58
546	6.0100	-.56	Avg	4.4086		870	10.966	R	665	9.4150	-2.38	821	10.795	.49
574	6.0350	-.60	106	4.3700	-.09	160	10.960	.40	038	9.2465	R	539	10.795	.47
536	5.9650	-.67	413	4.3500	-.17	106	11.200	.37	--	Method 010.99	--	781	10.782	.44
096	5.9500	R	164	4.2500	-.38	049	11.140	.34	--	Method 010.99	--	144	10.780	.42
826	5.7700	-1.76	294	4.0800	-.75	Avg	10.924		305	11.400	1.87	138	10.775	.41
--	Method 008.02	--	358	4.0850	-.76	646	10.845	-.18	417	10.815	1.14	350	10.776	.40
045	5.7500	2.37	581	3.9600	-1.02	581	10.680	-.37	652	10.100	.21	674	10.660	.35
187	5.1950	1.13	004	3.8750	-1.24	278	10.650	-.37	716	10.050	.16	675	10.745	.34
098	5.1000	R	510	3.8500	-1.29	294	10.565	-.48	869	9.9750	.06	795	10.720	.32
148	5.1800	1.07	686	3.7100	-1.59	164	10.450	-.64	Avg	9.9325		148	10.735	.31
Avg	4.7029		026	3.6100	X	037	10.100	-1.11	871	9.9050	-.04	848	10.740	.30
309	4.6350	-.20	--	Method 008.99	--	686	9.9100	-1.36	852	9.9050	-.26	511	10.735	.28
869	4.6300	-.23	307	5.0000	1.33	413	9.8500	-1.48	168	9.6100	-.41	208	10.700	.16
675	4.5750	-.29	Avg	4.6133		--	Method 009.99	--	164	8.8650	-1.37	175	10.700	.16
868	4.5700	-.31	610	4.5000	-.41	868	14.580	1.15	628	8.7000	-1.57	160	10.655	.15
353	4.5300	-.40	297	4.3400	-.75	Avg	13.627		712	8.6150	R	865	10.670	.14
592	4.5150	-.42	871	3.0050	S	610	13.600	-.12	--	Method 011.01	--	774	10.680	.14
405	4.3750	-.75	--	Method 009.07	--	619	12.700	-1.08	108	11.425	S	Avg	10.661	
619	4.2800	-.97	045	14.200	S	--	Method 010.03	--	738	11.315	2.13	298	10.610	-.13
226	4.2000	-1.15	309	13.210	1.78	--	Method 010.03	--	098	11.300	2.11	132	10.600	-.19
--	Method 008.99	--	675	12.885	1.36	843	11.430	.86	833	11.230	1.86	765	10.605	-.25
--	Method 008.99	--	307	12.200	.82	Avg	10.453		541	11.160	1.67	651	10.626	-.30
--	Method 008.99	--	--	Method 008.99	--	027	9.4750	-.87	242	11.115	1.49	682	10.600	-.30

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 011.01	--	--	Method 012.00	--	--	Method 013.02	--	--	Method 013.10	--	--	Method 015.00	--
723	10.550	-.32	Avg	42.415	2.61	843	6.0650	2.61	652	4.7000	.08	049	194.57	-.41
563	10.562	-.35	354	42.285	-.39	774	5.5750	1.52	Avg	4.6518		353	193.90	-.45
643	10.600	-.36	559	42.200	-.68	795	5.5050	1.30	539	4.5600	-.27	345	190.20	-.62
670	10.535	-.37	567	41.750	-1.54	354	5.4300	1.23	096	4.5000	-.38	021	175.00	-1.31
809	10.535	-.40	--	Method 012.01	--	826	5.3650	1.00	160	4.4350	-.49	510	162.50	-1.87
553	10.525	-.40	096	40.050	1.29	833	5.2950	.83	062	4.3130	-.58	--	Method 016.00	--
026	10.520	-.42	Avg	38.380	-.44	171	5.2750	.78	688	4.2500	-.73	619	0.0825	.71
646	10.515	-.44	676	37.760	-.46	051	5.2150	.66	845	4.1550	-.86	--	Method 017.00	--
815	10.545	-.45	686	37.330	-.79	682	5.1650	.58	610	4.1000	-.94	353	3.9900	-1.13
100	10.555	-.50	--	Method 012.03	--	861	5.0900	.52	353	3.9900	-1.13	353	11.240	1.66
855	10.620 R	-.59	297	40.795	.39	777	5.1150	.45	--	Method 013.11	--	049	10.735	1.17
033	10.460	-.61	Avg	40.423	-.77	553	5.0650	.44	417	4.5650	.93	510	9.7700	.22
171	10.445	-.68	098	40.050	-1.16	809	5.1100	.39	Avg	4.2050		Avg	9.5700	
407	10.410	-.77	--	Method 012.04	--	100	5.0950	.37	014	3.8450	-.80	358	9.4500	-.12
226	10.400	-.80	106	43.300	1.62	676	5.0085	.15	--	Method 013.12	--	560	9.2000	-.37
622	10.427	-.81	Avg	39.972	-1.07	Avg	4.9446		--	Method 013.13	--	345	9.0850	-.48
843	10.420	-.82	160	39.905	-.05	229	4.9300	-.08	720	4.2500	.88	045	9.0950	-.50
354	10.365	-.92	353	39.855	-.06	815	4.8500	-.22	Avg	4.0750		693	7.9850	-1.64
062	10.319	-1.07	278	39.600	-.18	759	4.8600	-.24	588	3.9000	-.85	--	Method 017.99	--
620	10.314	-1.11	038	39.310 R	-.42	148	4.7950	-.35	--	Method 013.13	--	307	8.1500	.71
660	10.385 R	-1.22	510	37.200	-1.35	675	4.7600	-.43	581	5.2250	.71	--	Method 018.01	--
859	10.234	-1.34	--	Method 012.11	--	824	4.7500	-.47	--	Method 013.99	--	868	0.0675	.71
552	10.370 R	-1.39	720	40.915	1.16	208	4.6700	-.64	628	5.5300	.87	--	Method 018.02	--
265	10.150	-1.61	Avg	40.243	-2.04	765	4.6400	-.71	Avg	5.0150		567	0.1200	1.12
598	10.125	-1.68	536	39.915	-.57	026	4.5750	-.86	689	4.5000	-.87	021	0.1100	.32
179	10.095	-1.78	178	39.900	-.91	643	4.5650	-.89	047	0.9450 S	-6.84	Avg	0.1060	
229	10.050	-1.93	--	Method 012.99	--	853	4.5250	-.98	--	Method 015.00	--	154	0.1050	-.41
034	10.015	-2.04	619	51.500 S	67.18	033	4.3750	-1.33	616	236.00 R	1.50	011	0.0890	-1.41
294	10.000	-2.08	868	44.375	.71	016	4.4050	-1.33	520	234.00	1.38	--	Method 019.00	--
574	9.8600 s	-2.55	Avg	44.375		616	3.8350	-2.58	169	229.50	1.17	--	Method 019.00	--
--	Method 011.99	--	--	Method 012.00	--	--	Method 013.10	--	560	219.00	.70	681	1.1650	1.19
588	37.605 S	.00	178	42.950 R	4.01	843	6.0650	2.41	154	219.00	.70	552	1.1550	1.13
--	Method 012.00	--	869	42.905	1.16	504	5.4150	1.30	164	212.50	.40	651	1.0475	.22
178	42.950 R	4.01	689	42.850	1.06	656	5.0650	.72	011	210.39	.31	194	1.0350	.12
869	42.905	1.16	716	42.500	.20	660	4.9250	.47	Avg	203.69		Avg	1.0584	

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## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 019.00	--	--	Method 019.01	--	--	Method 019.05	--	--	Method 019.08	--	--	Method 019.99	--
620	0.9906	-0.26	001	1.0330	-0.15	242	1.0700	.80	590	0.9500	-1.59	588	1.2110	1.79
622	0.9571	-0.53	588	1.0215	-0.41	610	1.0600	.55	--	Method 019.09	--	Avg	1.0718	
647	0.9150	R -0.96	014	1.0250	-0.48	297	1.0600	.55	869	5.5005	s 136.53	121	1.0680	-0.07
716	0.8000	S -1.84	038	1.0150	-0.57	168	1.0600	.52	278	1.1200	1.83	871	1.0600	-0.15
--	Method 019.01	--	175	1.0200	-0.64	358	1.0550	.43	009	1.1060	1.49	692	1.0100	-0.79
720	1.2350	S 4.51	669	1.0110	-0.68	083	1.0400	.40	190	1.1050	1.42	852	1.0100	-0.80
646	1.1850	S 3.40	675	1.0050	-0.80	148	1.0535	.39	096	1.1000	1.28	665	0.7450	S -4.20
108	1.0500	R 2.77	233	1.0000	-0.90	164	1.0500	.38	027	1.0890	1.05	--	Method 020.00	--
013	1.1050	R 1.97	305	0.9750	-1.48	265	1.0500	.33	154	1.0766	.78	164	2.7500	.71
039	1.1025	R 1.89	687	0.9700	-1.61	Avg	1.0328		357	1.0750	.75	--	Method 020.01	--
018	1.1150	1.75	631	0.9450	-2.20	011	1.0247	-0.17	510	1.0750	.75	567	4.2700	1.98
010	1.0950	1.29	142	0.9400	-2.30	407	1.0250	-0.18	017	1.0750	.75	508	3.4360	.79
674	1.0500	R 1.18	609	0.9300	-2.56	865	1.0200	-0.24	726	1.0720	.67	154	3.3500	.56
619	1.0850	1.11	--	Method 019.02	--	695	1.0150	-0.35	037	1.0650	.61	021	3.2500	.41
035	1.0850	1.06	536	0.9450	-0.71	229	1.0150	-0.35	560	1.0650	.61	096	3.0000	.02
307	1.0850	1.06	--	Method 019.03	--	661	1.0150	-0.35	106	1.0600	.60	Avg	2.9857	
868	1.0750	1.00	307	1.1400	1.31	004	1.0140	-0.36	353	1.0500	.29	560	2.4750	-0.79
152	1.0700	.84	036	1.1104	.53	098	1.0100	-0.43	Avg	1.0408		510	2.4700	-0.80
036	1.0747	.82	Avg	1.0851		171	1.0100	-0.47	045	1.0400	-0.22	011	2.4200	-0.86
350	1.0700	.74	026	1.0500	-0.76	026	1.0050	-0.54	567	1.0250	-0.36	171	2.2000	-1.21
656	1.0650	.69	026	1.0500	-0.76	508	1.0034	-0.59	616	1.0200	-0.45	--	Method 020.99	--
628	1.0650	.60	686	1.0400	-0.96	682	1.0000	-0.62	848	1.0250	-0.47	616	5.4300	S 83.14
205	1.0650	.60	--	Method 019.05	--	425	1.0000	-0.62	021	1.0125	-0.63	675	2.6450	.71
033	1.0650	.60	511	1.0600	s1994.02	298	1.0000	-0.65	028	1.0100	-0.70	Avg	2.6450	
504	1.0500	.56	520	1.2500	s 5.01	405	0.9650	-1.29	572	1.0050	-0.78	675	2.6450	.71
263	1.0609	.50	019	1.1350	1.94	144	0.9650	-1.29	693	1.0050	-0.84	--	Method 021.01	--
169	1.0550	.38	029	1.1145	1.59	553	0.9565	-1.48	199	1.0000	-0.98	628	2.0000	S 11.50
563	1.0528	.38	208	1.1130	1.53	003	0.9450	-1.67	038	1.0050	-1.08	619	1.9300	S 10.80
505	1.0500	.34	049	1.1000	1.29	089	0.9200	-2.14	035	0.9900	-1.10	689	0.9000	1.12
670	1.0515	.29	512	1.0930	1.22	294	0.9200	-2.15	309	0.9850	-1.25	Avg	0.8500	
653	1.0515	.28	413	1.0900	1.10	685	0.7750	s -4.94	160	1.0380	R -1.40	164	0.8000	-0.50
026	1.0400	.23	226	1.0800	.92	--	Method 019.08	--	345	0.9850	-1.42	164	0.8000	-0.50
178	1.0450	.17	598	1.0765	.83	729	1.1000	1.24	187	0.9725	-1.48	--	Method 021.02	--
723	1.0450	.17	100	1.0500	R .83	689	1.0900	1.01	366	0.9700	-1.54	510	1.6550	s 5.90
354	1.0450	.17	051	1.0405	R .82	848	1.0400	.20	Avg	1.0358		425	0.9200	1.14
208	1.0450	.13	074	1.0750	.81	Avg	1.0358		138	1.0300	-0.21	560	0.7940	R 1.04
Avg	1.0393		629	1.0750	.81	629	1.0050	-0.57						
612	1.0350	-0.15												

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## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 021.02	--	--	Method 022.01	--	--	Method 022.05	--	--	Method 023.01	--	--	Method 025.03	--
154	0.8650	.78	178	13.000	-1.06	021	18.900 s	4.92	619	0.0010	.00	074	311.50	.56
021	0.8000	.73	716	11.780	-1.64	037	16.900	2.30	512			512	310.85	.53
616	0.8380	.63	675	11.475	-1.85	616	16.150	1.63	--	Method 025.01	--	242	309.50	.45
629	0.8250	.51	--	Method 022.03	--	413	16.050	1.51	175	343.00	1.75	049	302.89	.43
171	0.8000	.35	405	17.000	2.71	567	15.850	1.29	039	329.22	1.08	011	308.55	.43
011	0.7880	.27	512	16.200 s	2.46	160	15.100	.74	350	329.50	.91	083	303.50	.27
038	0.7700	.25	003	15.500 R	1.92	009	15.220	.69	013	326.50	.75	610	305.00	.24
Avg	0.7466		242	15.500	1.50	199	15.050	.54	038	324.00	.68	168	304.00	.13
169	0.7250	-.17	029	14.990	1.05	869	14.750	.49	619	317.50	.60	164	303.50	.09
504	0.7440	-.43	004	15.000	1.02	035	15.000	.47	656	317.26	.39	148	302.20	.06
106	0.4800	-1.73	208	14.850	.91	096	15.000	.47	675	319.20	.34	Avg	302.00	
693	0.4700 R	-2.04	425	14.850	.90	027	14.879	.36	868	319.00	.30	226	297.50	-.27
572	0.4045	-2.22	226	14.500	.74	560	14.550	.24	035	319.00	.28	297	301.50	-.31
--	Method 021.99	--	520	14.500	.74	045	14.600	.21	033	317.50	.19	358	295.09	-.40
610	0.6925	.71	508	14.384	.69	Avg	14.504		689	317.00	.17	051	295.50	-.48
--	Method 022.01	--	682	14.600	.69	294	14.325	-.21	669	316.44	.16	098	293.50	-.49
588	17.000	1.89	610	14.000	.18	353	14.500	-.29	Avg	314.39		553	293.50	-.52
175	16.500 R	1.86	297	14.000	.18	154	14.150	-.34	208	312.50	-.15	004	290.00	-.68
350	16.500	1.59	011	13.973	.17	038	14.200	-.41	354	309.50	-.36	026	284.00	-1.03
013	16.250	1.50	Avg	13.783		106	14.450	-.43	307	309.00	-.37	425	282.50	-1.11
035	16.000	1.22	148	13.500	-.41	357	14.500	-.48	628	306.50	-.48	265	295.00 R	-1.15
038	15.500	.94	026	13.450	-.47	510	14.000	-.48	720	304.22	-.72	144	275.35	-1.57
689	15.250	.83	083	13.500	-.48	190	13.790	-.68	646	283.33	-1.88	598	274.00	-1.59
653	14.595	.40	100	13.500	-.48	693	13.770	-.71	670	267.70	-2.82	407	267.50	-1.96
628	14.500	.39	074	13.500	-.48	169	13.700	-.77	504	253.50 A	-3.69	003	258.50	-2.52
208	14.400	.13	164	13.500	-.48	187	13.695	-.80	505	142.00 s	-10.41	--	Method 025.05	--
039	14.302	.11	051	13.000	-.66	572	13.600	-.91	--	Method 025.03	--	037	339.00 R	2.18
Avg	14.206		229	13.000	-.66	726	13.430	-1.03	--	Method 025.03	--	038	334.00	1.87
720	14.076	-.28	629	12.950	-.70	278	14.250 R	-1.40	508	337.42 R	2.18	366	322.00	1.23
868	13.800	-.28	358	12.890	-.84	366	13.000	-1.43	208	337.50	2.02	510	321.00	1.17
590	13.650	-.38	407	12.725	-.90	309	12.570 R	-2.14	029	325.60	1.34	413	315.00	.93
619	13.650	-.39	265	13.000	-1.07	345	11.905	-2.48	682	321.69	1.15	021	310.50	.93
504	13.550	-.45	171	12.500	-1.16	--	Method 022.99	--	629	319.75	1.01	045	313.00	.86
307	13.750	-.48	098	12.500	-1.16	121	14.250	1.17	171	317.00	.88	154	312.00	.75
669	13.494	-.49	049	12.180	-1.53	692	13.650	.28	229	316.00	.87	096	310.00	.65
354	13.005	-.81	695	11.865	-1.62	Avg	13.240		100	313.00	.69	035	308.00	.56
505	13.000	-.82	598	11.000 s	-2.88	846	11.820	-1.03	405	312.50	.61	567	304.50	.40
									520	311.50	.58	169	303.50	.35

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## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 025.05	--	--	Method 027.01	--	--	Method 027.03	--	--	Method 027.05	--	--	Method 028.03	--
869	299.50	.34	263	0.1846	-.09	144	0.1800	-.57	187	0.1692	-1.15	508	91.882	1.40
560	296.50	.26	038	0.1850	-.12	083	0.1800	-.57	309	0.1650	-1.67	520	88.000 R	1.16
Avg	296.24		208	0.1830	-.29	358	0.1800	-.57	037	0.1630	-1.80	171	89.000	.86
726	295.55	-.03	505	0.1850	-.60	229	0.1800	-.57	--	Method 027.99	--	100	88.500	.79
199	296.05	-.19	142	0.1850	-.60	242	0.1800	-.57	692	0.1700	.00	074	88.500	.79
693	295.50	-.22	354	0.1850	-.60	425	0.1800	-.57	--	Method 028.00	--	051	85.000	.58
511	291.50	-.23	175	0.1850	-.60	407	0.1795	-.64	--	Method 028.00	--	358	87.450	.57
353	291.05	-.25	656	0.1800	-.62	026	0.1780	-.79	--	Method 028.00	--	083	86.500	.46
616	286.50	-.61	675	0.1800	-.62	629	0.1763	-.97	033	81.400	-.71	029	86.870	.42
190	282.92	-.64	307	0.1800	-.62	553	0.1745	-1.24	--	Method 028.01	--	425	85.650	.40
309	275.00	-1.03	169	0.1800	-.62	051	0.1735	-1.30	--	Method 028.01	--	512	86.475	.39
160	285.00 R	-1.34	868	0.1800	-.66	695	0.1700	-1.61	039	94.175	1.48	610	86.500	.37
187	265.56	-1.45	619	0.1790	-.78	294	0.1700	-1.61	646	92.375	1.13	229	86.500	.37
106	265.00	-1.48	588	0.1715	-1.63	--	Method 027.05	--	868	92.200	1.12	265	85.500	.19
294	263.27	-1.56	609	0.1500 s	-4.20	--	Method 027.05	--	035	92.000	1.07	Avg	84.680	
345	248.70	-2.25	--	Method 027.03	--	616	0.3675 s	19.61	208	90.500	.81	148	84.050	-.13
278	164.00 s	-6.25	520	0.2250 s	4.87	009	0.2185 s	4.03	038	89.500	.77	511	84.000	-.23
--	Method 025.99	--	003	0.2300 s	4.64	278	0.2150 s	3.68	588	89.500	.64	011	84.248	-.31
121	326.02	.89	405	0.2050	2.10	567	0.1900	1.47	354	87.625	.52	004	83.000	-.33
Avg	321.01		208	0.2050	2.03	353	0.1900	1.47	669	88.260	.47	598	82.500	-.43
692	316.00	-.85	610	0.2000	1.51	560	0.1900	1.03	675	86.485	.18	164	82.500	-.43
--	Method 026.00	--	682	0.2000	1.51	096	0.1900	1.03	656	86.235	.18	049	82.935	-.43
689	0.8500	.87	508	0.1939 R	1.16	357	0.1900	1.03	350	86.000	.02	208	84.500	-.49
Avg	0.5128		226	0.1950	1.12	160	0.1826	.86	Avg	85.884		242	82.000	-.52
154	0.1755	-.86	100	0.1950	1.12	199	0.1850	.73	178	85.000	-.15	098	82.000	-.55
--	Method 026.99	--	011	0.1925	.73	035	0.1850	.73	590	84.600	-.23	026	81.250	-.69
619	0.0000	.00	598	0.1908	.55	021	0.1860	.65	689	82.000	-.70	226	81.000	-.74
--	Method 027.01	--	413	0.1900	.47	345	0.1855	.56	720	80.985	-.87	297	80.000	-.93
039	0.2044 s	2.44	297	0.1900	.47	106	0.1830	.43	307	80.500	-.98	144	78.750	-1.15
720	0.2050	2.44	029	0.1896	.45	Avg	0.1801		619	79.250	-1.16	553	79.350	-1.20
350	0.2000	1.77	164	0.1870	.19	038	0.1785	-.23	175	79.000	-1.21	695	75.590	-1.76
628	0.1950	1.31	171	0.1855	.16	572	0.1775	-.46	629	71.500	-2.51	407	73.420	-2.18
504	0.1855	.78	148	0.1855	.05	045	0.1750	-.54	504	61.400 s	-4.28	--	Method 028.05	--
035	0.1900	.57	Avg	0.1855		154	0.1742	-.67	505	60.000 s	-4.52	616	164.50 s	15.31
Avg	0.1852		004	0.1825	-.35	693	0.1750	-.75	--	Method 028.03	--	190	96.970	2.00
			049	0.1850	-.52	366	0.1750	-.75	405	102.00 s	3.36	096	94.000	1.47
			098	0.1850	-.52	504	0.1725	-.93	682	97.335	2.45	027	92.788	1.32
			265	0.1850	-.52	869	0.1715	-.94	003	97.000	2.39	726	93.500	1.31

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 028.05	--	--	Method 031.01	--	--	Method 031.01	--	--	Method 031.05	--	--	Method 031.05	--
160	90.900 R	1.15	619	0.7550	1.20	194	0.6750	-1.62	345	0.7550	.70	425	0.7000	-.81
357	92.000	1.04	620	0.7533	1.11	687	0.6600	-2.13	510	0.7550	.70	407	0.7000	-.81
413	89.300 R	.88	152	0.7500	.99	038	0.6595	-2.16	121	0.7525	.63	144	0.7000	-.81
045	91.200	.86	169	0.7500	.99	646	0.6600	-2.16	413	0.7500	.62	298	0.7000	-.86
560	91.050	.84	669	0.7470	.90	647	0.6700 s	-2.49	106	0.7505	.61	869	0.7000	-.90
628	90.500	.73	036	0.7474	.90	--	Method 031.02	--	021	0.7480	.56	661	0.6970	-.90
038	87.500	.70	511	0.7300 R	.75	013	0.7400	.77	019	0.7500	.55	553	0.6885	-1.19
106	89.300	.49	629	0.7400	.73	Avg	0.7369		074	0.7500	.55	035	0.6850	-1.23
345	88.780	.46	350	0.7400	.64	011	0.7359	-.32	168	0.7495	.54	848	0.6850	-1.29
154	89.000	.43	001	0.7400	.64	505	0.7350	-1.35	357	0.7450	.44	154	0.6787	-1.44
035	88.500	.34	675	0.7400	.64	--	Method 031.03	--	190	0.7350	.43	366	0.6650	-1.81
037	87.500	.32	609	0.7350	.50	307	0.8000 R	3.23	226	0.7400	.39	199	0.6650	-1.81
510	87.500	.16	178	0.7350	.50	036	0.7503	.78	148	0.7435	.38	572	0.6650 R	-1.95
Avg	86.834		108	0.7350	.50	504	0.7340	.44	504	0.7310	.33	309	0.6550	-2.04
366	86.500	-.30	026	0.7350	.50	504	0.7475	.68	098	0.7400	.28	089	0.6500	-2.18
278	85.000	-.36	651	0.7340	.44	208	0.7400	.30	242	0.7400	.28	294	0.6450	-2.32
021	86.450	-.43	588	0.7320	.37	026	0.7350	.24	049	0.7300	.27	693	0.6350 s	-3.14
009	84.840	-.43	035	0.7250	.21	Avg	0.7335		083	0.7350	.20	685	0.5200 s	-5.73
169	83.900	-.58	233	0.7250	.21	720	0.6950	-1.81	520	0.7350	.20	--	Method 031.06	--
567	83.800	-.60	723	0.7250	.21	--	Method 031.05	--	038	0.7340	.16	686	0.7750	.92
353	83.840	-.61	263	0.7272	.21	628	4.4550 s	101.69	297	0.7300	.01	Avg	0.7575	
693	83.000	-.76	Avg	0.7214		003	0.8050	2.06	278	0.7300	.01	138	0.7400	-.81
187	82.620	-.83	716	0.7200	-.05	208	0.7960 R	1.91	Avg	0.7297		536	0.5700 S	-7.51
572	82.550	-.85	868	0.7155	-.22	567	0.7950	1.79	037	0.7285	-.10	--	Method 031.99	--
294	81.645	-1.04	563	0.7151	-.23	096	0.7900	1.65	004	0.7280	-.12	871	0.9900 S	6.97
309	80.500	-1.28	175	0.7150	-.28	512	0.7849	1.62	229	0.7250	-.19	588	0.8670 S	3.83
629	78.000	-1.74	354	0.7150	-.28	029	0.7869	1.61	164	0.7250	-.19	729	0.8050	1.97
869	75.445	-2.24	205	0.7170	-.29	405	0.7850	1.51	682	0.7200	-.27	631	0.7400	.34
--	Method 028.99	--	045	0.7125	-.31	358	0.7850	1.51	695	0.7200	-.27	Avg	0.7325	
692	82.150	.84	016	0.7125	-.32	009	0.7713	1.15	171	0.7200	-.38	590	0.7200	-.34
Avg	76.040		626	0.7100	-.40	353	0.7700	1.10	265	0.7200	-.38	552	0.7200	-.43
846	69.930	-.89	689	0.7100	-.40	598	0.7689	1.07	051	0.7150	-.42	852	0.7100	-.67
--	Method 031.01	--	622	0.7059	-.55	560	0.7680	1.06	865	0.7150	-.42	692	0.7000	-.88
665	0.8000	2.73	142	0.7000	-.74	726	0.7664	1.00	100	0.7150	-.42	--	Method 031.06	--
039	0.7674 R	1.90	848	0.7050	-.77	508	0.7332 R	.91	616	0.7085	-.58	686	0.7750	.92
160	0.7311 R	1.53	656	0.6950	-.93	027	0.7565	.77	028	0.7100	-.60	685	0.5200 s	-5.73
653	0.7550	1.28	674	0.7000 R	-1.02	610	0.7550	.70	017	0.7050	-.69	--	Method 031.06	--
			305	0.6850	-1.27				187	0.7041	-.70			
			670	0.6850	-1.27				629	0.7015	-.79			

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 032.01	--	--	Method 032.05	--	--	Method 033.00	--	--	Method 033.01	--	--	Method 033.03	--
039	0.9494 R	2.09	278	0.9250	1.66	616	0.8255	-0.69	693	0.6550	-0.38	106	0.6550	-2.43
354	0.9450	1.89	106	0.9235	1.53	598	0.8251	-0.70	366	0.6450	-0.55	674	0.6100 s	-6.16
628	0.9250	1.49	160	0.9019 R	1.45	366	0.8250	-0.77	504	0.6400	-0.63	--	Method 033.03	--
656	0.8900	.99	037	0.9100	1.24	294	0.8200	-0.83	716	0.6400	-0.63	--	Method 033.03	--
175	0.8950	.94	682	0.9100	1.24	407	0.8160	-0.90	407	0.6300	-0.81	598	0.7900	1.21
208	0.8965	.92	567	0.9100	1.24	144	0.8150	-0.92	628	0.5950	-1.43	190	0.7350	.47
035	0.8900	.79	096	0.9050	1.16	199	0.8150	-0.98	868	0.5930	-1.49	505	0.7300	.40
033	0.8885	.76	148	0.9000	1.00	164	0.8150	-0.98	539	0.6250 s	-2.22	Avg	0.7008	
205	0.8565	.45	029	0.8741	.86	309	0.8100	-1.12	511	0.5450 s	-2.32	265	0.7000	-0.01
720	0.8600	.27	051	0.8635	.73	187	0.8056	-1.13	--	Method 033.01	--	726	0.6900	-0.15
038	0.8590	.26	693	0.8800	.59	553	0.8075	-1.25	--	Method 033.01	--	144	0.6500 R	-0.80
675	0.8600	.19	511	0.8800	.59	405	0.7950	-1.41	686	0.8100 s	8.22	848	0.5600	-1.91
868	0.8580	.17	413	0.8700	.55	009	0.7904	-1.53	510	0.8100 s	8.19	--	Method 033.05	--
Avg	0.8507		242	0.8750	.55	035	0.7850	-1.59	610	0.7200	2.02	171	0.6900	.71
350	0.8400	-.29	504	0.8765	.54	629	0.7670	-2.00	242	0.7100 R	1.91	--	Method 033.99	--
670	0.8295	-.42	154	0.8779	.51	265	0.7650	-2.04	051	0.6930 R	1.65	003	1.1700 S	3.82
619	0.8260	-.60	358	0.8600	.46	--	Method 032.99	--	100	0.7050	1.05	681	0.9150 S	1.69
505	0.8200	-.64	520	0.8750	.45	692	0.8600	.00	096	0.7050	1.05	121	0.8625 S	1.24
307	0.8050	-1.04	038	0.8750	.44	--	Method 033.00	--	307	0.7050	1.05	358	0.8200	.89
098	0.7950	-1.15	572	0.8665	.37	--	Method 033.00	--	026	0.7000	.95	869	0.7450	.29
142	0.7850	-1.32	021	0.8590	.35	297	0.8500 s	3.07	629	0.7000	.65	Avg	0.6708	
004	0.7750	-1.52	083	0.8600	.25	017	0.8250	2.63	278	0.7000	.65	552	0.6950	-.17
609	0.7650	-1.72	229	0.8650	.24	653	0.7500	1.32	205	0.6965	.56	083	0.6900	-.20
--	Method 032.02	--	Avg	0.8556		689	0.7300	.97	175	0.6950	.46	861	0.6800	-.29
665	0.9050	1.48	297	0.8550	-.11	208	0.7155	.71	354	0.6950	.46	855	0.6200	-.79
504	0.8865	.43	357	0.8500	-.13	723	0.7150	.69	229	0.6950	.46	619	0.5610	-1.29
169	0.8850	.35	171	0.8500	-.17	298	0.7100	.63	Avg	0.6905		871	0.5550	-1.34
Avg	0.8830		011	0.8470	-.22	512	0.7099	.60	226	0.6900	-.03	647	0.4950 S	-1.88
590	0.8750	-.62	026	0.8525	-.23	567	0.6950	.35	199	0.6900	-.03	--	Method 034.01	--
588	0.8635	-1.28	049	0.8500	-.26	675	0.6950	.35	178	0.6900	-.03	038	0.4915	.71
108	0.7050 s	-11.76	425	0.8450	-.26	045	0.6895	.30	413	0.6900	-.03	--	Method 034.04	--
--	Method 032.05	--	353	0.8450	-.26	003	0.8450	-.26	425	0.6900	-.03	610	0.5980	1.38
560	0.9505 R	2.32	003	0.8430	-.30	353	0.6900	.25	029	0.6850	-.51	171	0.5550	.84
208	0.9445	2.02	869	0.8430	-.30	695	0.6800	.19	559	0.6800	-.72	208	0.5155	.53
226	0.9450	2.01	100	0.8550	-.34	160	0.6850	.18	590	0.6800	-.72	619	0.5190	.27
610	0.9300	1.69	508	0.8536	-.41	Avg	0.6817		164	0.6850 R	-1.09	--	Method 034.04	--
695	0.9300	1.67	045	0.8375	-.46	016	0.6670	-.17	194	0.6750	-1.12	171	0.5550	.84
			510	0.8350	-.48	309	0.6631	-.28	004	0.6700	-1.40	208	0.5155	.53
			345	0.8350	-.57	588	0.6600	-.28	098	0.6700	-1.40	619	0.5190	.27

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 034.04	--	--	Method 035.00	--	--	Method 035.03	--	--	Method 035.05	--	--	Method 036.03	--
Avg	0.5023	-0.77	305	0.3100	-0.77	358	0.3250	.33	590	0.3375	-0.43	616	0.1875	-2.66
512	0.4885	-0.20	628	0.3100	-0.77	510	0.3260	.29	171	0.3250	-0.80	265	0.1600	-3.85
164	0.4600	-0.61	152	0.3050	-1.00	038	0.3270	.28	504	0.3310	-0.83			
169	0.3800	-1.77	609	0.2950	-1.42	Avg	0.3241		108	0.3200	-1.08	--	Method 036.04	--
--	Method 034.05	--	354	0.2850	-1.94	083	0.3200	-0.27	294	0.3150	-1.22	226	0.2500	.00
682	0.8850	7.18	--	Method 035.01	--	520	0.3200	-0.27	--	Method 035.99	--	--	Method 037.01	--
154	0.5400	1.04	686	0.3550	.89	693	0.3200	-0.27	588	0.2025	.00	628	138.50	5.00
560	0.5250	.76	Avg	0.3418		865	0.3200	-0.27	692	0.3400	.00	590	119.10	2.52
027	0.5035	.38	138	0.3285	-0.84	353	0.3200	-0.27	Avg	0.3400		035	114.50	1.54
Avg	0.4827		--	Method 035.03	--	661	0.3225	-0.50	--	Method 036.00	--	350	114.50	1.54
553	0.4450	-0.74	003	0.4700	9.61	629	0.3155	-0.57	--	Method 036.00	--	868	111.00	1.05
039	0.4739	-0.80	567	0.3850	4.13	553	0.3155	-0.61	297	0.2400	.00	689	106.00	.79
567	0.4000	-1.47	309	0.3700	3.09	045	0.3155	-0.64	307	0.3250	.00	039	107.81	.67
--	Method 034.99	--	242	0.3600	2.37	098	0.3150	-0.68	Avg	0.2400		619	108.00	.60
096	0.4500	.98	160	0.3441	1.79	144	0.3150	-0.68	--	Method 036.03	--	588	107.50	.54
Avg	0.3925		051	0.3380	1.45	682	0.3150	-0.68	154	0.2964	1.99	038	107.00	.46
098	0.3350	-0.74	413	0.3450	1.42	298	0.3200	-0.71	169	0.2800	1.29	033	106.25	.39
--	Method 035.00	--	096	0.3450	1.42	572	0.3115	-0.86	560	0.2730	.99	653	105.80	.29
142	0.5800	10.71	610	0.3450	1.42	616	0.3125	-0.95	106	0.2710	.91	504	105.00	.22
720	0.4150	3.70	187	0.3425	1.24	869	0.3075	-1.12	508	0.2618	.60	669	104.52	.21
263	0.3778	2.11	100	0.3400	1.24	265	0.3100	-1.14	278	0.2600	.44	208	104.50	.12
868	0.3720	1.89	148	0.3390	.99	199	0.3050	-1.30	708	0.2570	.31	Avg	103.81	
175	0.3450	.96	508	0.3377	.93	089	0.3000	-1.59	038	0.2555	.31	720	102.30	-0.22
039	0.3472	.90	598	0.3374	.91	511	0.3050	-1.60	353	0.2550	.31	354	101.85	-0.38
233	0.3400	.51	407	0.3365	.82	035	0.2900	-2.24	021	0.2550	.24	656	102.14	-0.42
035	0.3400	.51	154	0.3363	.80	695	0.2900	-2.34	345	0.2530	.16	178	100.00	-0.55
505	0.3350	.36	164	0.3350	.79	366	0.2650	-3.90	357	0.2500	.01	675	100.68	-0.62
670	0.3345	.28	278	0.3350	.79	405	0.1465	-11.69	510	0.2500	.01	716	100.49	-1.01
205	0.3290	.09	226	0.3350	.79	004	0.2200	-13.69	Avg	0.2497		307	94.500	-1.56
675	0.3300	.08	029	0.3273	.66	--	Method 035.05	--	171	0.2395	-0.45	505	92.500	-1.67
Avg	0.3281		504	0.3265	.52	106	0.3870	1.95	160	0.2427	R	175	87.000	-2.46
208	0.3270	-0.22	011	0.3301	.44	588	0.3635	.92	045	0.2350	-0.63	646	69.650	-4.93
307	0.3250	-0.25	229	0.3300	.39	169	0.3600	.77	309	0.2350	-0.66	--	Method 037.03	--
038	0.3250	-0.32	297	0.3300	.39	560	0.3460	.30	294	0.2300	-0.84	003	213.00	17.32
656	0.3150	-0.59	425	0.3250	.33	Avg	0.3425		187	0.2249	-1.06	682	119.15	2.74
619	0.3140	-0.67	345	0.3250	.33	665	0.3400	-0.11	693	0.2250	-1.08	508	115.28	1.96

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 037.03	--	--	Method 037.05	--	--	Method 038.00	--	--	Method 045.02	--	--	Method 104.00	--
297	114.00	1.76	413	127.50	2.62	Avg	1.2731	1.37	019	0.0133	1.37	171	5.4000	1.52
074	112.50	1.52	190	120.04	1.74	038	1.2000	-.65	003	0.0126	.87	Avg	4.5400	
011	111.30	1.35	106	114.50	1.10	560	1.2300	-.65	004	0.0122	.53	227	4.4800	-.43
171	110.00	1.14	038	108.50	.96	106	1.1000	-1.53	047	0.0121	.51	208	4.2000	-.60
029	106.60	.62	726	112.35	.85	693	1.2500	R -1.69	218	0.0115	.11	096	4.0800	-.81
610	105.50	.44	035	110.50	.66	--	Method 038.99	--	Avg	0.0114		--	Method 105.00	--
083	105.50	.44	096	110.00	.58	--	Method 038.99	--	038	0.0111	-.25	096	2.7200	.96
226	104.00	.37	357	107.50	.50	164	1.5000	.00	027	0.0109	-.41	Avg	2.1825	
520	104.50	.36	045	106.50	.34	--	Method 039.01	--	001	0.0110	-.41	160	1.6450	-.76
100	104.50	.36	169	107.00	.26	164	2.0500	.71	846	0.0084	-2.22	--	Method 105.01	--
242	104.50	.36	560	106.00	.26	--	Method 039.02	--	--	Method 048.00	--	227	4.0950	-.71
098	104.50	.29	Avg	104.97		--	Method 039.02	--	027	130.10	.71	--	Method 106.00	--
229	104.00	.25	510	103.50	-.18	154	3.0000	1.67	--	Method 048.01	--	171	3.3000	.71
026	102.50	-.08	021	104.50	-.18	508	2.6335	.57	--	Method 051.03	--	--	Method 106.02	--
148	102.55	-.15	567	102.00	-.36	Avg	2.6241	-.40	036	123.50	.71	560	7.4400	s 4.45
598	101.00	-.26	037	102.00	-.36	021	2.5500	-.40	--	Method 086.00	--	208	4.8100	1.66
265	102.00	-.33	353	103.05	-.41	560	2.5300	-.55	033	36.200	-.71	199	4.6000	1.46
512	101.28	-.36	199	101.65	-.44	011	2.4070	-.97	--	Method 101.01	--	670	4.0950	.95
160	99.900	-.46	278	102.05	-.50	560	5.4300	-.63	--	Method 101.01	--	563	3.8067	.60
425	99.550	-.49	187	100.42	-.53	294	87.155	-2.06	208	806.00	.71	038	3.3430	.36
511	99.500	-.50	345	98.890	-.72	--	Method 041.00	--	--	Method 102.00	--	096	3.2900	.27
358	101.76	-.52	693	96.050	-1.03	021	1.7000	.60	--	Method 102.00	--	676	3.4500	.23
144	99.100	-.58	572	95.950	-1.04	154	1.7000	.60	208	41.565	.71	227	3.2900	.20
049	98.770	-.64	009	95.150	-1.13	Avg	1.6913		208	39.065	.71	Avg	3.2414	
553	101.70	R -.69	869	103.30	R -1.17	011	1.6740	-1.33	--	Method 103.01	--	616	3.0600	-.30
695	97.465	-.83	294	87.155	-2.06	508	1.5925	R -33.45	227	2.1000	.00	004	2.8700	-.39
629	97.325	-.84	--	Method 037.99	--	028	0.0143	1.55	--	Method 103.99	--	619	2.6600	-.63
051	96.000	-1.05	121	115.28	1.07	009	0.0133	.56	--	Method 103.99	--	610	2.6600	-.65
164	95.000	-1.20	692	105.00	.10	Avg	0.0127		227	8.6950	.71	160	2.3200	-.98
004	93.000	-1.52	039	1.3420	.76	036	0.0121	-.58	--	Method 103.99	--	675	1.1250	-2.24
405	91.000	-1.82	154	1.3000	.24	171	0.0120	-.76	208	8.6950	.71	--	Method 107.00	--
407	90.320	-1.92	029	1.2900	.17	511	0.0119	-.93	--	Method 103.99	--	227	19.340	.87
--	Method 037.05	--	--	Method 038.00	--	--	Method 045.00	--	--	Method 103.99	--	Avg	16.935	
616	225.50	s 13.91	011	2.2550	s 9.92	009	0.0133	.56	--	Method 103.99	--	208	14.530	-.86
309	173.50	s 7.91	510	1.4500	1.63	Avg	0.0127		--	Method 103.99	--	--	Method 107.00	--
027	149.09	S 5.09	039	1.3420	.76	036	0.0121	-.58	208	8.6950	.71	--	Method 107.00	--
154	142.50	S 4.35	154	1.3000	.24	171	0.0120	-.76	--	Method 103.99	--	Avg	16.935	
			029	1.2900	.17	511	0.0119	-.93	--	Method 103.99	--	208	14.530	-.86

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 108.01	--	--	Method 120.00	--	--	Method 121.05	--	--	Method 124.02	--	--	Method 126.00	--
227	1.1165	.87	160	1.1863 s	7.87	626	1.1500	1.10	676	0.2925	.87	Avg	0.9023	
Avg	0.5732		676	1.0125	1.89	038	1.1500	.55	Avg	0.2813		652	0.8950	- .52
096	0.0300	- .87	675	0.9850	.96	Avg	1.1500		227	0.2700	- .87	859	0.8695	-1.03
--	Method 108.02	--	652	0.9650	.90	--	Method 122.00	--	--	Method 124.05	--	684	0.8690	-1.05
675	3.9350	.76	619	0.9750	.75	160	1.6247	1.35	038	0.3275	1.09	644	0.8660	-1.13
676	3.5850	.65	504	0.9650	.31	676	1.6000	1.24	Avg	0.3163		227	0.8650	-1.17
Avg	3.0633		571	0.9635	.20	652	1.5850	.97	610	0.3050	- .55	--	Method 126.05	--
208	1.6700	-1.22	Avg	0.9577		504	1.5950	.67	--	Method 125.00	--	626	0.9950	.86
--	Method 109.02	--	350	0.9540	-.13	571	1.5950	.67	--	Method 125.00	--	Avg	0.9492	
560	55.750	2.06	227	0.9500	-.26	619	1.5850	.48	160	3.1375 R	1.88	038	0.9035	- .87
675	48.760	1.47	684	0.9400	-.87	227	1.5850	.30	868	3.1750	1.80	--	Method 127.00	--
Avg	31.554		868	0.9460	-.95	675	1.5800	.30	675	3.0900	1.02	160	0.6774 s	11.59
619	29.500	- .18	644	0.9225	-1.21	644	1.5775	.19	676	3.0800	.97	676	0.5055 R	3.15
227	27.550	-.34	859	0.9135	-1.53	Avg	1.5749		227	3.0390	.61	675	0.4850	1.83
563	26.396	-.44	--	Method 120.05	--	350	1.5565	-.50	571	2.9700	.09	504	0.4750	1.34
676	26.195	-.46	626	1.0150	.87	859	1.5540	-.62	Avg	2.9656		652	0.4500	.50
208	25.735	-.49	Avg	0.9888		684	1.5205	-1.67	684	2.9430	-.26	571	0.4545	.48
610	22.350	-.78	038	0.9625	-.86	868	1.5150	-1.85	644	2.9225	-.35	227	0.4550	.42
199	21.750	-.83	--	Method 121.00	--	--	Method 122.05	--	350	2.9215	-.36	859	0.4540	.29
--	Method 109.99	--	160	1.4421 s	10.55	626	1.7250 S	2.21	859	2.8460	-.99	Avg	0.4482	
096	26.500	.71	676	1.1265	1.16	038	1.5850	.71	652	2.8350	-1.19	619	0.4455	-.26
--	Method 112.00	--	227	1.1200	1.13	Avg	1.5850		504	2.7550	-1.75	644	0.4345	-.68
208	9.4700	.53	571	1.1150	.94	--	Method 124.00	--	--	Method 125.05	--	868	0.4300	-1.04
Avg	9.3875		504	1.1100	.74	171	0.4490 s	9.45	038	3.3000	.87	684	0.4240	-1.19
227	9.3050	-1.11	859	1.1110	.71	160	0.3260 s	3.99	Avg	3.1800		350	0.4225	-1.26
--	Method 113.01	--	619	1.1000	.49	684	0.3015	1.59	626	3.0600	- .86	--	Method 127.05	--
227	1.2300	1.12	644	1.0875	.08	619	0.2910	1.04	--	Method 126.00	--	626	0.4800	.85
Avg	1.1725		Avg	1.0864		571	0.2835	.70	--	Method 126.00	--	Avg	0.4563	
208	1.1150	-.50	652	1.0750	-.36	652	0.2750	.32	160	1.0417 s	4.44	038	0.4325	-.88
--	Method 114.01	--	675	1.0700	-.56	Avg	0.2716		676	0.9660	2.09	--	Method 128.00	--
227	0.2225	.71	350	1.0550	-.92	350	0.2705	-.14	619	0.9310	.95	160	0.7849 s	4.67
--	Method 114.01	--	684	1.0315	-1.63	504	0.2700	-.54	571	0.9260	.76	504	0.7000	1.82
227	0.2225	.71	868	1.0350	-1.66	644	0.2585	-.70	868	0.9135	.60	676	0.6770	1.22
						859	0.2490	-1.21	675	0.9100	.39	571	0.6725	.93
						675	0.2450	-1.43	504	0.9100	.24	619	0.6655	.69
						350	0.9065	.13	350	0.9065	.13			

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 128.00	--	--	Method 130.00	--	--	Method 131.00	--	--	Method 132.00	--	--	Method 134.00	--
652	0.6450	.48	160	0.9791	2.50	512	0.2762	.56	Avg	0.7879	--	652	0.8000	.29
859	0.6515	.31	676	0.9275	R 2.18	652	0.2750	.42	350	0.7800	- .21	Avg	0.7875	
Avg	0.6443		868	0.9200	1.35	848	0.2750	.42	675	0.7800	- .35	684	0.7735	- .33
644	0.6395	- .16	171	0.9145	X 1.17	504	0.2750	.42	652	0.7800	- .58	350	0.7715	- .37
350	0.6350	- .30	848	0.8900	.66	858	0.2695	.14	227	0.7550	- .90	859	0.7685	- .46
227	0.6150	- .96	504	0.8800	.49	Avg	0.2692		684	0.7450	-1.21	644	0.7585	- .68
868	0.6155	-1.04	208	0.8800	.45	868	0.2680	- .28	868	0.7175	-2.00	868	0.7375	-1.20
684	0.6105	-1.13	227	0.8650	.34	350	0.2615	- .42	--	Method 132.05	--	504	0.7000	-2.04
675	0.6050	-1.28	350	0.8700	.24	160	0.2602	- .82	--	Method 133.00	--	--	Method 134.05	--
--	Method 128.05	--	Avg	0.8583		675	0.2350	-1.87	626	0.8300	.74	--	Method 134.05	--
626	0.7100	.80	675	0.8500	- .17	208	0.2300	-2.12	Avg	0.8153		626	0.9000	.87
Avg	0.6770		619	0.8505	- .20	684	0.1460	s -6.70	038	0.8005	- .97	Avg	0.8818	
038	0.6440	- .93	571	0.8485	- .27	--	Method 131.01	--	--	Method 133.00	--	038	0.8635	- .87
--	Method 129.00	--	858	0.8390	- .40	171	0.3215	X .71	160	1.3348	s 6.41	--	Method 135.00	--
160	1.4866	R 1.93	644	0.8385	- .41	--	Method 131.02	--	619	1.1700	1.69	160	0.6869	s 4.48
675	1.5300	1.82	652	0.8250	- .76	--	Method 131.02	--	571	1.1550	1.32	676	0.6530	2.07
504	1.5000	1.32	674	0.8050	-1.11	676	0.3135	.91	644	1.1285	.64	619	0.6365	.98
676	1.4705	.81	859	0.8025	-1.16	Avg	0.2993		675	1.1250	.45	571	0.6360	.85
571	1.4500	.40	512	0.8011	-1.19	227	0.2850	- .82	652	1.1200	.40	227	0.6350	.68
619	1.4350	.29	684	0.7915	-1.39	--	Method 130.01	--	Avg	1.1094		859	0.6280	.24
644	1.4320	.08	--	Method 130.01	--	723	0.3300	1.03	350	1.0835	- .71	644	0.6285	.23
Avg	1.4304		035	0.8950	.71	038	0.2945	.39	227	1.0800	- .81	Avg	0.6260	
227	1.4250	- .13	--	Method 130.05	--	610	0.2800	.11	684	1.0770	- .96	675	0.6250	- .34
652	1.4050	- .54	626	0.9150	1.34	Avg	0.2736		504	1.0800	- .98	652	0.6200	- .39
684	1.4010	- .62	610	0.8600	.22	626	0.1900	-1.51	868	1.0750	-1.03	350	0.6170	- .59
350	1.3940	- .67	Avg	0.8493		--	Method 133.05	--	--	Method 133.05	--	504	0.6150	- .79
859	1.3925	- .74	723	0.8250	- .50	--	Method 131.99	--	626	1.2800	.88	868	0.6170	- .88
868	1.3300	-1.97	038	0.7970	-1.19	871	0.4350	S .00	Avg	1.1950		684	0.6005	-1.72
--	Method 129.05	--	--	Method 130.99	--	--	Method 132.00	--	038	1.1100	- .85	--	Method 135.05	--
626	1.5100	.87	871	0.8500	X .71	160	0.9967	s 5.68	--	Method 134.00	--	626	0.6800	1.08
Avg	1.4750		619	0.8385	1.40	619	0.8385	1.40	676	0.8535	1.62	038	0.6530	.32
038	1.4400	- .87	--	Method 131.00	--	676	0.8240	1.00	619	0.8350	1.20	Avg	0.6527	
			644	0.2960	1.47	504	0.8200	.91	675	0.8350	1.12	610	0.6250	-1.11
			859	0.2850	.86	859	0.8200	.87	571	0.8040	.52			
			619	0.2825	.72	571	0.8005	.38	160	0.8000	.40			
			571	0.2795	.57	644	0.7945	.18	227	0.8000	.37			

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 136.00	--	--	Method 138.00	--						
684	0.2090	-.71	676	0.8140	.63						
			571	0.8130	.55						
--	Method 136.01	--	675	0.8100	.51						
644	0.2070	.94	350	0.8050	.34						
619	0.2065	.93	859	0.8030	.29						
868	0.2025	.35	Avg	0.7926							
Avg	0.2006		644	0.7825	-.26						
571	0.1970	-.54	227	0.7650	-.71						
227	0.1900	-1.53	652	0.7650	-.94						
160	0.1841 S	-3.01	684	0.7540	-1.08						
			868	0.7135	-2.04						
--	Method 136.03	--	--	Method 138.05	--						
859	0.2000	.71	626	0.8650	.81						
			Avg	0.8108							
--	Method 136.99	--	038	0.7565	-.92						
504	0.2050	.95									
Avg	0.2035		--	Method 139.00	--						
038	0.2020	-.78	504	0.0600	.00						
--	Method 137.00	--									
160	0.6869 s	3.05									
676	0.6445	1.75									
675	0.5800	.62									
504	0.5550	.17									
644	0.5500	.06									
Avg	0.5471										
684	0.5345	-.31									
868	0.4955	-.94									
227	0.4700	-1.43									
--	Method 137.05	--									
038	0.6230	.86									
Avg	0.5215										
626	0.4200	-.87									
--	Method 138.00	--									
160	0.9469 s	4.23									
504	0.8550	1.62									
619	0.8310	.98									

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

## 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	0.0737	0.99	0.23	010.03	4	-1.6325	2.01	0.09
001.03	6	0.0000	1.04	0.10	010.11	12	-0.2342	1.27	0.16
001.07	36	6.1923	38.71	0.31	010.99	11	-0.1529	1.09	0.17
001.99	19	-0.3415	1.43	0.25	011.01	74	0.0087	1.01	0.32
002.00	5	0.0000	1.01	0.30	012.00	7	0.1765	1.03	1.46
002.01	9	0.0000	1.01	0.21	012.01	3	0.0000	1.09	0.20
002.02	6	0.0000	0.98	0.33	012.03	2	0.0000	0.55	0.77
002.04	6	2.9072	7.17	0.45	012.04	6	-0.0537	0.96	0.12
002.05	14	0.0000	0.97	0.29	012.11	3	0.0000	1.00	0.40
002.06	128	-0.0504	1.22	0.30	012.99	2	33.5876	47.50	0.50
002.08	5	0.0000	1.04	0.16	013.02	32	0.0000	0.98	0.22
002.10	13	0.2181	1.78	0.37	013.10	13	0.0000	1.01	0.16
002.11	13	0.3801	1.54	0.28	013.11	2	0.0000	1.02	0.48
002.99	4	0.0000	1.05	0.21	013.12	2	0.0000	1.20	0.17
003.00	24	-0.6512	2.60	0.35	013.99	3	-2.2814	4.05	0.00
003.06	27	-0.4241	1.85	0.28	015.00	12	0.1225	1.06	0.11
003.09	26	-0.1679	1.22	0.35	017.00	8	0.0000	1.00	0.24
003.10	27	-0.2176	1.50	0.27	018.02	4	0.0000	1.03	0.27
003.11	13	0.0000	1.01	0.12	019.00	8	-0.1106	1.01	0.15
003.12	4	0.0000	1.08	0.07	019.01	45	0.2516	1.26	0.57
003.13	6	0.0000	1.03	0.19	019.03	4	0.0000	1.00	0.35
003.14	15	-0.2879	1.45	0.30	019.05	44	45.3036	300.56	5.75
003.99	11	0.6351	1.65	0.38	019.08	6	0.0000	1.02	0.22
004.00	28	0.0000	0.98	0.25	019.09	31	3.1018	17.31	17.40
004.01	2	1.1378	1.61	0.68	019.99	6	-0.6994	1.96	0.06
004.03	2	0.0000	0.28	0.84	020.01	9	0.0000	1.01	0.18
004.06	30	0.1049	1.13	0.34	020.99	2	39.3858	55.70	18.81
004.07	38	0.1161	1.51	0.29	021.01	4	5.5750	6.46	0.50
004.11	13	0.0000	1.00	0.22	021.02	15	0.2935	1.84	0.44
004.99	4	0.0000	1.06	0.17	022.01	23	0.0676	1.00	0.34
005.00	125	-0.0047	1.10	0.35	022.03	32	0.0355	1.09	0.56
005.11	10	-0.9352	2.16	0.21	022.05	31	0.0679	1.25	0.61
005.99	10	-0.0737	0.97	0.36	022.99	3	0.0000	0.85	0.60
008.02	13	0.0688	1.00	0.24	025.01	22	-0.6400	2.50	0.26
008.08	22	0.0000	0.99	0.19	025.03	35	0.0461	1.02	0.31
008.99	4	-1.0924	2.31	0.44	025.05	28	-0.1701	1.56	0.36
009.07	11	0.2570	1.26	0.50	025.99	2	0.0000	0.94	0.56
009.09	17	0.4402	2.03	0.40	026.00	2	0.0000	1.22	0.09
009.99	3	0.0000	1.07	0.26	027.01	21	-0.0907	1.38	0.41

## 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	34	0.2835	1.40	0.53	104.00	4	0.0000	1.05	0.23
027.05	26	1.0481	4.01	0.47	105.00	2	0.0000	1.05	0.45
028.01	22	-0.3998	1.60	0.20	106.02	15	0.2967	1.50	0.18
028.03	34	0.1176	1.11	0.29	107.00	2	0.0000	1.22	0.09
028.05	32	0.5185	2.86	0.31	108.01	2	0.0000	1.22	0.02
028.99	2	0.0000	1.19	0.20	108.02	3	0.0000	1.07	0.27
031.01	47	-0.0063	1.01	0.43	109.02	9	0.0000	1.03	0.05
031.02	3	0.0000	0.67	0.73	112.00	2	0.0000	0.70	0.71
031.03	6	0.5157	1.57	0.41	113.01	2	0.0000	0.68	0.72
031.05	73	1.2809	11.98	0.38	120.00	13	0.6048	2.35	0.42
031.06	3	-2.5000	4.39	0.48	120.05	2	0.0000	1.21	0.12
031.99	8	1.3258	2.75	0.46	121.00	13	0.7932	3.00	0.70
032.01	22	0.0897	1.04	0.29	121.05	2	0.0000	0.00	0.87
032.02	6	-1.9403	4.84	0.72	122.00	13	0.0000	0.83	0.57
032.05	59	0.0538	0.99	0.34	122.05	2	1.0999	1.56	0.53
033.00	26	0.0834	1.15	0.42	124.00	11	1.1185	3.02	0.90
033.01	29	0.4135	2.55	0.72	124.02	2	0.0000	1.22	0.03
033.03	7	-0.0984	0.99	0.16	124.05	2	0.0000	0.72	0.70
033.99	12	0.1651	1.57	0.14	125.00	13	0.1083	1.02	0.42
034.04	7	0.0000	1.01	0.24	125.05	2	0.0000	1.22	0.05
034.05	7	1.0000	2.85	0.37	126.00	13	0.3342	1.52	0.39
034.99	2	0.0000	1.04	0.46	126.05	2	0.0000	1.21	0.13
035.00	22	0.6545	2.55	0.27	127.00	13	1.0833	3.28	0.89
035.01	2	0.0000	1.18	0.23	127.05	2	0.0000	1.20	0.16
035.03	57	-0.0624	2.54	1.63	128.00	13	0.3488	1.56	0.43
035.05	10	0.0000	0.98	0.31	128.05	2	0.0000	1.13	0.33
035.99	2	0.0000	0.00	0.00	129.00	13	0.0786	0.97	0.55
036.00	2	0.0000	0.00	0.00	129.05	2	0.0000	1.22	0.00
036.03	23	-0.2532	1.27	0.20	130.00	19	0.0754	1.02	0.41
037.01	25	0.0913	1.74	0.42	130.05	4	0.0000	1.03	0.28
037.03	36	0.5426	3.03	0.49	131.00	15	-0.4437	1.96	0.33
037.05	29	1.0845	3.21	0.33	131.02	2	0.0000	1.10	0.38
037.99	3	0.0000	1.12	0.06	131.05	4	0.0000	1.07	0.14
038.00	9	0.9420	3.03	1.72	132.00	13	0.4343	1.82	0.34
039.02	5	0.0000	1.00	0.32	132.05	2	0.0000	1.05	0.45
040.00	2	0.0000	0.88	0.60	133.00	11	0.5640	2.08	0.58
041.00	4	-1.7084	3.52	16.37	133.05	2	0.0000	1.17	0.25
045.00	5	0.0000	1.03	0.23	134.00	13	0.0000	0.99	0.25
045.02	9	0.0000	1.02	0.11	134.05	2	0.0000	1.22	0.02

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
135.00	13	0.3085	1.40	0.72					
135.05	3	0.0000	1.09	0.22					
136.01	6	-0.3977	1.34	0.77					
136.99	2	0.0000	0.39	0.82					
137.00	8	0.3135	1.30	0.64					
137.05	2	0.0000	1.21	0.12					
138.00	13	0.3000	1.43	0.55					
138.05	2	0.0000	1.14	0.31					