

Feed Check Sample No. - 200924 Lamb Starter, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 204 Labs - - Pass 2 Results for 203 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
NPN, Automated .....		000.03	1	2.77500	0.02121	0.03000	1	2.77500	0.02121	0.03000
Urea, Misc .....		000.99	1	0.89000	0.24042	0.34000	1	0.89000	0.24042	0.34000
Method Group 000.XX PCT			2	1.83250	1.09719	0.18500	2	1.83250	1.09719	0.18500
Loss on Drying, Vac 95 deg 5 hr .....	934.01	001.00	9	9.40667	0.44773	0.07111	9	9.30944	0.57770	0.04556
Loss on Drying, ISO 6496 .....		001.03	4	9.28125	0.19127	0.04750	4	9.28125	0.19127	0.04750
Loss on Drying, LECO .....		001.05	1	9.13500	0.02121	0.03000	1	9.13500	0.02121	0.03000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	36	9.31167	0.34740	0.10667	34	9.30279	0.34847	0.08206
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	9.32000	0.00000	0.00000	1	9.32000	0.00000	0.00000
Loss on Drying, Misc .....		001.99	16	9.40269	0.29383	0.13700	15	9.40287	0.29340	0.10613
Method Group 001.XX PCT			67	9.34184	0.33901	0.10287	63	9.34029	0.34168	0.07940
Protein, Crude .....	954.01	002.00	5	20.9970	0.60152	0.15000	6	20.8233	0.68599	0.20333
Protein, Auto Kjell-Foss .....	976.05	002.01	10	21.0941	0.12013	0.08810	10	21.0941	0.12013	0.08810
Protein, Semiauto Autoanalyzer .....	976.06	002.02	8	21.0838	0.37182	0.09825	8	21.0838	0.37182	0.09825
Protein, Hach Method .....		002.03	1	21.5200	1.01823	1.44000	1	21.5200	1.01823	1.44000
Protein, Copper Cat .....	984.13	002.04	4	21.2088	0.38857	0.15250	4	21.2088	0.38857	0.15250
Protein, Copper, Boric Acid .....		002.05	19	21.1487	0.36591	0.07954	19	21.1487	0.36591	0.07954
Protein, Combustion Nitrogen Analyzer	990.03	002.06	124	21.4188	0.35384	0.17293	117	21.4240	0.33785	0.13567
Protein, Cu/Ti .....	988.05	002.08	5	21.1585	0.35919	0.05340	5	21.1585	0.35919	0.05340
Protein, Block dig/distillation .....		002.10	10	21.1270	0.29416	0.10400	10	21.1270	0.29416	0.10400
Protein, NIR .....		002.11	12	21.5463	0.59970	0.13583	14	21.7475	0.75415	0.14500
Protein, Misc .....		002.99	7	21.2766	0.59635	0.20690	6	21.2301	0.59147	0.05972
Method Group 002.XX PCT			205	21.3330	0.40817	0.15515	197	21.3319	0.40111	0.12765
Fat, Eth Ext, Direct .....	920.39	003.00	25	3.21887	0.23538	0.10766	24	3.24133	0.20821	0.09631
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	2.36500	0.04950	0.07000	1	2.36500	0.04950	0.07000
Fat, Pet Ether .....		003.06	24	3.11771	0.27438	0.10042	23	3.10717	0.26864	0.07957
Fat, Soxtec, Eth Ext .....		003.09	25	3.17353	0.13716	0.06684	24	3.18221	0.13004	0.05838
Fat, Soxtec, Pet Ether .....		003.10	29	3.08169	0.21220	0.06564	27	3.08496	0.20860	0.05087
Fat, NIR .....		003.11	13	2.92383	0.13233	0.03005	12	2.92165	0.13694	0.02423
Fat, Hexane Ext. ....		003.12	4	3.20125	0.21444	0.02250	4	3.20125	0.21444	0.02250
Fat, Soxtec, Hexane Ext. ....		003.13	5	3.07180	0.12515	0.08640	5	3.07180	0.12515	0.08640
Fat, Ankom .....		003.14	15	2.97233	0.25345	0.11267	15	2.97233	0.25345	0.11267
Fat, Misc .....		003.99	11	3.14453	0.35532	0.11397	11	3.14453	0.35532	0.11397
Method Group 003.XX PCT			152	3.10340	0.24827	0.08291	146	3.10745	0.24554	0.07358
Fiber, Crude Asbestos Free .....	962.09	004.00	33	5.60883	0.44088	0.11158	32	5.62254	0.43747	0.09631
Fiber, Sing Filt .....		004.01	2	6.91500	0.30914	0.07000	2	6.91500	0.30914	0.07000
Fiber, Fritted Glass .....	978.10	004.03	3	6.14500	0.26764	0.05667	3	6.14500	0.26764	0.05667
Fiber, Fibertec .....		004.06	33	5.87586	0.49307	0.16873	31	5.85704	0.48913	0.12123
Fiber, ANKOM .....		004.07	38	5.23526	0.45185	0.21105	35	5.26571	0.41405	0.17257
Fiber, NIR .....		004.11	13	5.40957	0.55387	0.15296	12	5.46453	0.52427	0.09071

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Fiber, Misc .....		004.99	5	5.83000	0.74887	0.20800	5	5.83000	0.74887	0.20800
Method Group 004.XX PCT			127	5.58798	0.57064	0.16227	120	5.60649	0.54926	0.12766
Ash, .....	942.05	005.00	129	7.00249	0.24051	0.05616	119	6.99678	0.23060	0.04164
Ash, LECO .....		005.02	1	7.12000	0.02828	0.04000	1	7.12000	0.02828	0.04000
Ash, NIR .....		005.11	4	7.45250	0.32442	0.02500	6	7.68000	0.42424	0.02333
Ash, Misc .....		005.99	15	7.18722	0.37503	0.15755	14	7.17060	0.36810	0.11309
Method Group 005.XX PCT			149	7.03396	0.27253	0.06542	138	7.02851	0.26463	0.04839
Sugar, TSI, Lane-Eynon (12th) .....	923.09	006.05	1	6.19000	0.01414	0.02000	1	6.19000	0.01414	0.02000
Fiber, Acid Detergent .....	973.18	008.02	16	7.24875	0.34504	0.18250	16	7.24875	0.34504	0.18250
Fiber, Acid Detergent-Hach .....		008.05	1	7.85000	0.07071	0.10000	1	7.85000	0.07071	0.10000
Fiber, Acid Detergent by ANKOM .....		008.08	22	7.03750	0.57362	0.29955	21	6.99643	0.51976	0.23095
Fiber, Acid Detergent Misc .....		008.99	4	6.93163	0.53434	0.23775	4	6.93163	0.53434	0.23775
Method Group 008.XX PCT			43	7.12515	0.50898	0.24560	42	7.10670	0.48193	0.21002
Fiber, Neutral Det-ENZ Pretreat .....		009.07	12	15.9796	0.95387	0.24750	11	15.9505	0.98084	0.17909
Fiber, Neutral Detergent by ANKOM .....		009.09	19	15.6089	0.81560	0.26842	17	15.6426	0.83644	0.17588
Fiber, Neutral Det Misc .....		009.99	6	16.0747	1.20717	0.28333	6	16.0747	1.20717	0.28333
Method Group 009.XX PCT			37	15.8047	0.94096	0.26405	34	15.8185	0.95841	0.19588
Moisture, Karl-Fischer .....	966.20	010.03	2	9.61500	0.48391	0.29000	2	9.61500	0.48391	0.29000
Moisture, NIR .....		010.11	9	9.71243	0.12223	0.12809	9	9.71243	0.12223	0.12809
Moisture, Misc .....		010.99	14	9.39346	0.51628	0.09507	14	9.39346	0.51628	0.09507
Method Group 010.XX PCT			25	9.52602	0.43571	0.12255	25	9.52602	0.43571	0.12255
Loss on Drying, 135 deg 2 hr .....	930.15	011.01	78	10.2740	0.30034	0.11146	75	10.2894	0.28944	0.09485
Method Group 011.XX PCT			78	10.2740	0.30034	0.11146	75	10.2894	0.28944	0.09485
Starch, Polarimetric (Ewers) .....		012.00	8	30.9256	1.40748	0.62875	7	31.0364	1.37827	0.33286
Starch, Megazyme .....		012.01	3	29.3650	2.18191	0.90333	3	29.3650	2.18191	0.90333
Starch, Enzymatic .....		012.03	2	29.5250	1.62566	2.17000	2	29.5250	1.62566	2.17000
Starch, YSI Analyzer .....		012.04	6	29.4433	1.41178	0.26667	6	29.4433	1.41178	0.26667
Starch, NIR .....		012.11	5	32.6248	1.41560	0.31480	5	32.6248	1.41560	0.31480
Method Group 012.XX PCT			24	30.5973	1.92370	0.63558	23	30.6167	1.94289	0.54583
Fat, Mojonnier, Bak Ext .....	954.02	013.02	30	4.32715	0.56317	0.14063	28	4.27338	0.52432	0.10425
Fat, Soxtec-Acid Hydrolysis .....		013.10	17	3.81412	0.37872	0.21529	16	3.84906	0.34070	0.16813
Fat, Super Critical Fluid Extraction ..		013.11	1	3.70000	0.35355	0.50000	1	3.70000	0.35355	0.50000
Fat, NIR-Acid Hydrolysis .....		013.12	3	3.29167	0.37124	0.00333	3	3.29167	0.37124	0.00333
Fat, Ankon-Acid Hydrolysis .....		013.13	1	4.47000	0.07071	0.10000	1	4.47000	0.07071	0.10000
Fat, Pretreat or extended ext, misc ...		013.99	5	3.77460	0.81491	0.06520	5	3.77460	0.81491	0.06520
Method Group 013.XX PCT			57	4.06268	0.60624	0.15465	54	4.03995	0.56698	0.12120
Aluminum, ICP .....		015.00	10	69.0526	7.99699	3.15330	9	68.1239	7.60028	2.11700
Method Group 015.XX PPM			10	69.0526	7.99699	3.15330	9	68.1239	7.60028	2.11700
Boron, ICP .....		017.00	8	13.2325	1.45590	0.69250	7	13.2293	1.49799	0.46429

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Boron, Misc .....		017.99	2	13.3200	0.60155	0.90000	2	13.3200	0.60155	0.90000
Method Group 017.XX PPM			10	13.2500	1.31599	0.73400	9	13.2494	1.33467	0.56111
Cadmium, ICP .....		018.02	2	0.09088	0.00144	0.00125	2	0.09088	0.00144	0.00125
Method Group 018.XX PPM			2	0.09088	0.00144	0.00125	2	0.09088	0.00144	0.00125
Calcium, Ox-Mn04 Vol .....	927.02	019.00	15	1.33902	0.07968	0.01817	15	1.32136	0.09578	0.00950
Calcium, At Abs Spect .....	968.08	019.01	43	1.33297	0.04421	0.02183	41	1.33202	0.04336	0.01777
Calcium, Semiauto (Autoanalyzer) .....		019.03	5	1.35970	0.05273	0.01980	5	1.35970	0.05273	0.01980
Calcium, ICP, Dry Ash.....		019.05	36	1.33627	0.05768	0.02378	35	1.33616	0.05761	0.02103
Calcium, EDTA .....		019.08	6	1.35333	0.06286	0.01667	6	1.35333	0.06286	0.01667
Calcium, ICP, Wet Ash .....		019.09	31	1.33838	0.05266	0.01870	29	1.33682	0.04343	0.01493
Calcium, Misc .....		019.99	3	1.37563	0.06162	0.01740	3	1.37563	0.06162	0.01740
Method Group 019.XX PCT			139	1.33844	0.05577	0.02085	133	1.33761	0.05375	0.01708
Chromium, AA.....		020.00	2	3.41700	0.20462	0.01700	2	3.41700	0.20462	0.01700
Chromium, ICP .....		020.01	8	3.90063	0.87795	0.33987	7	3.83429	0.88512	0.19843
Chromium, Misc .....		020.99	1	3.57500	0.10607	0.15000	1	3.57500	0.10607	0.15000
Method Group 020.XX PPM			11	3.78309	0.77283	0.26391	10	3.72490	0.75788	0.15730
Cobalt, AA .....	968.08	021.01	3	1.79383	0.38108	0.04567	3	1.79383	0.38108	0.04567
Cobalt, ICP .....		021.02	15	1.41268	0.34133	0.09763	14	1.41395	0.34884	0.07389
Cobalt, Misc. ....		021.99	1	1.05800	0.00000	0.00000	1	1.05800	0.00000	0.00000
Method Group 021.XX PPM			19	1.45420	0.37353	0.08429	18	1.45749	0.38033	0.06508
Copper, AA .....	968.08	022.01	23	19.7755	1.93914	0.81453	22	19.6233	1.76268	0.62746
Copper, ICP, Dry Ash .....	968.08	022.03	26	19.8430	1.76602	0.91288	25	19.7367	1.68956	0.82940
Copper, ICP, Wet Ash .....	968.08	022.05	29	20.2624	2.02645	0.62345	28	20.3254	2.01420	0.53857
Copper, Misc .....		022.99	3	20.2700	1.61586	0.47333	3	20.2700	1.61586	0.47333
Method Group 022.XX PPM			81	19.9898	1.90360	0.76505	78	19.9365	1.84061	0.65435
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	22	241.073	22.7190	6.09500	21	240.625	22.8056	4.62333
Iron, ICP, Dry Ash .....	968.08	025.03	32	227.443	20.9243	5.10625	32	227.443	20.9243	5.10625
Iron, ICP, Wet Ash .....	968.08	025.05	27	233.008	17.4952	6.25063	25	232.269	16.2347	4.47068
Iron, Misc .....		025.99	2	227.575	7.45045	10.0500	2	227.575	7.45045	10.0500
Method Group 025.XX PPM			83	232.869	20.7621	5.85972	80	232.414	20.4502	4.90446
Lead, .....		026.00	1	0.11700	0.00000	0.00000	1	0.11700	0.00000	0.00000
Lead, Misc .....		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 026.XX PPM			2	0.05850	0.06755	0.00000	2	0.05850	0.06755	0.00000
Magnesium, AA .....	968.08	027.01	23	0.25088	0.01347	0.00540	21	0.25188	0.01272	0.00300
Magnesium, ICP, Dry Ash .....	968.08	027.03	30	0.25455	0.01007	0.00373	29	0.25436	0.01002	0.00317
Magnesium, ICP, Wet Ash .....	968.08	027.05	25	0.24962	0.00920	0.00424	24	0.24983	0.00907	0.00354
Magnesium, Misc. ....		027.99	2	0.25470	0.00411	0.00540	2	0.25470	0.00411	0.00540
Method Group 027.XX PCT			80	0.25196	0.01096	0.00441	76	0.25225	0.01056	0.00330

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Manganese, AA .....	968.08	028.01	26	126.462	8.23795	4.06808	24	125.688	7.63316	2.94875
Manganese, ICP, Dry Ash .....	968.08	028.03	31	122.600	7.48367	3.20710	30	122.736	7.50264	2.94733
Manganese, ICP, Wet Ash .....	968.08	028.05	30	126.929	6.55138	4.27570	27	126.644	5.29717	3.26930
Manganese, Misc. ....		028.99	3	124.997	12.4382	8.48667	3	124.997	12.4382	8.48667
Method Group 028.XX PPM			90	125.239	7.79080	3.98801	84	124.916	7.25711	3.24906
Phosphorus, Vol .....	964.06	031.00	2	0.68518	0.05892	0.01915	2	0.68518	0.05892	0.01915
Phosphorus, Photometric .....	965.17	031.01	52	0.66216	0.02592	0.00888	47	0.66526	0.02037	0.00663
Phosphorus, GQMP (2.028) .....	964.06	031.02	5	0.66686	0.00833	0.00788	5	0.66686	0.00833	0.00788
Phosphorus, Autoanalyzer .....		031.03	8	0.67049	0.03510	0.01944	7	0.67699	0.02948	0.01221
Phosphorus, ICP .....		031.05	63	0.66924	0.02644	0.01277	59	0.66686	0.02414	0.01048
Phosphorus, Hach Method .....		031.06	1	0.70000	0.02828	0.04000	1	0.70000	0.02828	0.04000
Phosphorus, Misc. ....		031.99	7	0.63650	0.02722	0.01129	7	0.63650	0.02722	0.01129
Method Group 031.XX PCT			138	0.66535	0.02800	0.01173	128	0.66571	0.02484	0.00947
Potassium, AA .....	975.03	032.01	19	1.13071	0.06282	0.01313	19	1.13071	0.06282	0.01313
Potassium, Flame Emission .....	956.01	032.02	9	1.15311	0.06286	0.02911	9	1.15311	0.06286	0.02911
Potassium, Em Spect .....	953.01	032.04	1	1.16000	0.01414	0.02000	1	1.16000	0.01414	0.02000
Potassium, ICP .....		032.05	53	1.15221	0.06102	0.02288	51	1.15327	0.05973	0.01790
Potassium, Misc. ....		032.99	3	1.11288	0.02836	0.03510	3	1.11288	0.02836	0.03510
Method Group 032.XX PCT			85	1.14620	0.06102	0.02176	83	1.14671	0.06029	0.01867
Salt, Sol Cl .....	943.01	033.00	23	1.20148	0.08611	0.02369	22	1.19678	0.08202	0.01522
Salt, Poten Cl .....	969.10	033.01	32	1.27295	0.04174	0.01511	30	1.26931	0.03795	0.01245
Salt, Quantab .....		033.03	4	1.28375	0.12212	0.03250	5	1.21800	0.17631	0.04000
Salt, Ion Sel Electrode .....		033.05	1	1.19000	0.01414	0.02000	1	1.19000	0.01414	0.02000
Salt, Misc. ....		033.99	7	1.24571	0.14996	0.00857	6	1.26583	0.15312	0.00500
Method Group 033.XX PCT			67	1.24498	0.08652	0.01848	63	1.24331	0.08473	0.01410
Selenium, Fluor .....	969.06	034.01	3	0.52317	0.04136	0.04833	3	0.52317	0.04136	0.04833
Selenium, AA, Hydride .....		034.04	7	0.49479	0.04760	0.02671	7	0.49479	0.04760	0.02671
Selenium, ICP .....		034.05	4	0.52313	0.07445	0.05075	4	0.52313	0.07445	0.05075
Selenium, Misc. ....		034.99	3	0.50900	0.05757	0.00733	3	0.50900	0.05757	0.00733
Method Group 034.XX PPM			17	0.50897	0.05478	0.03276	17	0.50897	0.05478	0.03276
Sodium, AA .....		035.00	20	0.25811	0.01759	0.00577	19	0.25959	0.01661	0.00502
Sodium, Ion Sel Electrode .....		035.01	2	0.26490	0.01008	0.01070	2	0.26490	0.01008	0.01070
Sodium, Em Spect .....	953.01	035.02	1	0.23500	0.00707	0.01000	1	0.23500	0.00707	0.01000
Sodium, ICP .....		035.03	49	0.25267	0.01401	0.00675	48	0.25243	0.01391	0.00631
Sodium, Flame Emission .....	956.01	035.05	12	0.25717	0.02580	0.00633	12	0.25717	0.02580	0.00633
Sodium, Misc. ....		035.99	3	0.25012	0.00634	0.00710	3	0.25012	0.00634	0.00710
Method Group 035.XX PCT			87	0.25453	0.01688	0.00660	85	0.25470	0.01674	0.00620
Sulfur, (Gravimetric) .....		036.00	1	0.23000	0.00000	0.00000	1	0.23000	0.00000	0.00000
Sulfur, ICP .....		036.03	20	0.21847	0.01433	0.00565	19	0.21734	0.01358	0.00489

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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
Sulfur, LECO .....		036.04	2	0.22000	0.00816	0.01000	2	0.22000	0.00816	0.01000
Method Group 036.XX PCT			23	0.21911	0.01371	0.00578	22	0.21816	0.01307	0.00513
Zinc, AA .....	968.08	037.01	26	260.933	13.4957	7.00204	25	260.310	13.0652	6.12212
Zinc, ICP, Dry Ash .....	968.08	037.03	31	258.455	16.1919	5.62097	30	258.637	16.3071	5.07500
Zinc, ICP, Wet Ash .....	968.08	037.05	30	268.831	15.0138	7.15370	30	268.831	15.0138	7.15370
Zinc, Misc .....		037.99	3	271.592	17.1778	12.7233	3	271.592	17.1778	12.7233
Method Group 037.XX PPM			90	263.067	15.6857	6.76760	88	263.029	15.6415	6.34186
Molybdenum, ICP .....		038.00	13	2.88731	0.54053	0.27585	12	2.83625	0.51037	0.21550
Molybdenum, Misc .....		038.99	2	3.24500	0.33828	0.24000	2	3.24500	0.33828	0.24000
Method Group 038.XX PPM			15	2.93500	0.52821	0.27107	14	2.89464	0.50579	0.21900
Nickel, AA .....		039.01	1	2.60000	0.14142	0.20000	1	2.60000	0.14142	0.20000
Nickel, ICP .....		039.02	5	3.17320	0.73721	0.22200	5	3.17320	0.73721	0.22200
Method Group 039.XX PPM			6	3.07767	0.70446	0.21833	6	3.07767	0.70446	0.21833
Barium, ICP .....		040.00	1	8.09000	0.02828	0.04000	1	8.09000	0.02828	0.04000
Vanadium, ICP .....		041.00	1	0.71900	0.01626	0.02300	1	0.71900	0.01626	0.02300
Decoquinatate, HPLC .....		054.01	10	6.68035	0.52917	0.31250	9	6.67539	0.49740	0.18167
Method Group 054.XX MG/LB			10	6.68035	0.52917	0.31250	9	6.67539	0.49740	0.18167
Choline Chloride, Misc .....		101.99	1	469.500	3.53553	5.00000	1	469.500	3.53553	5.00000
Riboflavin, Fluorometric .....	970.65	104.00	1	2.90000	0.28284	0.40000	1	2.90000	0.28284	0.40000
Thiamine, HPLC .....		105.00	1	2.28000	0.07071	0.10000	1	2.28000	0.07071	0.10000
Vitamin A, Color .....	974.29	106.00	1	6.20000	1.41421	2.00000	1	6.20000	1.41421	2.00000
Vitamin A, UV .....		106.01	1	4.22045	0.70470	0.99660	1	4.22045	0.70470	0.99660
Vitamin A, HPLC .....		106.02	16	3.34010	1.06789	0.35478	15	3.25711	0.97930	0.18443
Vitamin A, Misc .....		106.99	3	1.91167	0.52575	0.15667	3	1.91167	0.52575	0.15667
Method Group 106.XX KU/LB			21	3.31415	1.30059	0.43538	20	3.25060	1.25807	0.31165
Vitamin D3, HPLC .....	982.29	108.01	1	0.37500	0.06364	0.09000	1	0.37500	0.06364	0.09000
Vitamin D3, HPLC .....		108.02	4	2.65254	2.22312	0.16932	4	2.65254	2.22312	0.16932
Method Group 108.XX KU/LB			5	2.19703	2.18325	0.15345	5	2.19703	2.18325	0.15345
Vitamin E, HPLC .....		109.02	13	55.8813	9.33050	1.27585	12	55.6797	9.66415	0.91551
Vitamin E, Misc .....		109.99	1	62.0000	1.41421	2.00000	1	62.0000	1.41421	2.00000
Method Group 109.XX MG/KG			14	56.3183	9.12463	1.32758	13	56.1659	9.43154	0.99893
Alanine, Post-col Ninhydrin Der .....	994.12	120.00	11	0.96473	0.06205	0.01675	11	0.96473	0.06205	0.01675
Alanine, Pre-col AQC Der .....		120.05	2	1.02750	0.04812	0.04900	2	1.02750	0.04812	0.04900
Method Group 120.XX PCT			13	0.97438	0.06361	0.02171	13	0.97438	0.06361	0.02171
Arginine, Post-col Ninhydrin Der .....	994.12	121.00	10	1.33685	0.08857	0.01679	9	1.33205	0.09175	0.01199
Arginine, Pre-col AQC Der .....		121.05	2	1.37025	0.04274	0.05950	2	1.37025	0.04274	0.05950
Method Group 121.XX PCT			12	1.34241	0.08295	0.02391	11	1.33900	0.08546	0.02063
Aspartic, Post-col Ninhydrin Der .....	994.12	122.00	11	2.01478	0.17860	0.02916	11	2.01478	0.17860	0.02916
Aspartic, Pre-col AQC Der .....		122.05	2	2.18775	0.10492	0.13850	2	2.18775	0.10492	0.13850

- Pass 1 Results for 204 Labs - - Pass 2 Results for 203 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
Method Group 122.XX PCT			13	2.04139	0.17935	0.04598	13	2.04139	0.17935	0.04598
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	10	0.33126	0.02079	0.01168	9	0.32918	0.01975	0.00853
Cysteine/Cystine, PAO Post-col OPA Der		124.02	1	0.31500	0.03536	0.05000	1	0.31500	0.03536	0.05000
Cysteine/Cystine, PAO Pre-col AQC Der		124.05	2	0.31725	0.03896	0.01150	2	0.31725	0.03896	0.01150
Method Group 124.XX PCT			13	0.32785	0.02452	0.01460	12	0.32601	0.02393	0.01248
Glutamic, Post-col Ninhydrin Der	994.12	125.00	11	3.57098	0.20850	0.07067	10	3.54533	0.19521	0.04804
Glutamic, Pre-col AQC Der		125.05	2	3.80150	0.17549	0.24700	2	3.80150	0.17549	0.24700
Method Group 125.XX PCT			13	3.60645	0.21773	0.09780	12	3.58803	0.21215	0.08120
Glycine, Post-col Ninhydrin Der	994.12	126.00	11	0.87731	0.06444	0.01341	11	0.87731	0.06444	0.01341
Glycine, Pre-col AQC Der		126.05	2	0.89175	0.07523	0.02650	2	0.89175	0.07523	0.02650
Method Group 126.XX PCT			13	0.87953	0.06477	0.01542	13	0.87953	0.06477	0.01542
Histidine, Post-col Ninhydrin Der	994.12	127.00	10	0.54059	0.01996	0.01166	10	0.54059	0.01996	0.01166
Histidine, Pre-col AQC Der		127.05	2	0.52200	0.06377	0.03100	2	0.52200	0.06377	0.03100
Method Group 127.XX PCT			12	0.53749	0.03016	0.01488	12	0.53749	0.03016	0.01488
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	11	0.80745	0.05441	0.01591	10	0.80570	0.05574	0.01050
Isoleucine, Pre-col AQC Der		128.05	2	0.87200	0.04462	0.03300	2	0.87200	0.04462	0.03300
Method Group 128.XX PCT			13	0.81738	0.05735	0.01854	12	0.81675	0.05885	0.01425
Leucine, Post-col Ninhydrin Der	994.12	129.00	11	1.55926	0.09032	0.02405	10	1.55269	0.09112	0.01745
Leucine, Pre-col AQC Der		129.05	2	1.60675	0.05207	0.06750	2	1.60675	0.05207	0.06750
Method Group 129.XX PCT			13	1.56657	0.08651	0.03073	12	1.56170	0.08739	0.02579
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	12	1.07834	0.05549	0.02057	11	1.07683	0.05681	0.01607
L-Lysine, Pre-col AQC Der		130.05	3	1.16350	0.07253	0.05167	3	1.16350	0.07253	0.05167
Method Group 130.XX PCT			15	1.09537	0.06745	0.02679	14	1.09540	0.06925	0.02370
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	9	0.29982	0.01216	0.00573	8	0.29855	0.01178	0.00395
Methionine, PAO Post-col OPA Der		131.02	1	0.32000	0.02828	0.04000	1	0.32000	0.02828	0.04000
Methionine, PAO Pre-col AQC Der		131.05	3	0.29750	0.06277	0.02233	3	0.29750	0.06277	0.02233
Method Group 131.XX PCT			13	0.30084	0.03088	0.01220	12	0.30008	0.03193	0.01155
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	10	0.96528	0.03318	0.01698	10	0.96528	0.03318	0.01698
Phenylalanine, Pre-col AQC Der		132.05	2	0.94575	0.05268	0.03750	2	0.94575	0.05268	0.03750
Method Group 132.XX PCT			12	0.96203	0.03642	0.02040	12	0.96203	0.03642	0.02040
Proline, Post-col Ninhydrin Der	994.12	133.00	10	1.12861	0.10108	0.01743	9	1.12339	0.10499	0.01259
Proline, Pre-col AQC Der		133.05	2	1.21390	0.11118	0.04880	2	1.21390	0.11118	0.04880
Method Group 133.XX PCT			12	1.14282	0.10539	0.02266	11	1.13985	0.10939	0.01917
Serine, Post-col Ninhydrin Der	994.12	134.00	11	0.93703	0.07806	0.02431	10	0.92933	0.07554	0.01534
Serine, Pre-col AQC Der		134.05	2	0.98100	0.08586	0.07400	2	0.98100	0.08586	0.07400
Method Group 134.XX PCT			13	0.94379	0.07915	0.03195	12	0.93794	0.07786	0.02512
Threonine, Post-col Ninhydrin Der	994.12	135.00	11	0.75602	0.05398	0.01545	11	0.75602	0.05398	0.01545
Threonine, Pre-col AQC Der		135.05	3	0.77783	0.04372	0.02700	3	0.77783	0.04372	0.02700
Method Group 135.XX PCT			14	0.76069	0.05199	0.01793	14	0.76069	0.05199	0.01793

Feed Check Sample No. - 200924 Lamb Starter, Medicated  
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- Pass 1 Results for 204 Labs - - Pass 2 Results for 203 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
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.29250	0.00636	0.00900	1	0.29250	0.00636	0.00900
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	5	0.27769	0.00937	0.00106	5	0.27769	0.00937	0.00106
Tryptophan, Misc .....		136.99	1	0.26500	0.00707	0.01000	1	0.26500	0.00707	0.01000
Method Group 136.XX PCT			7	0.27799	0.01123	0.00347	7	0.27799	0.01123	0.00347
Tyrosine, Post-col Ninhydrin Der .....	994.12	137.00	7	0.65279	0.02016	0.00976	7	0.65279	0.02016	0.00976
Tyrosine, Pre-col AQC Der .....		137.05	1	0.45500	0.00707	0.01000	1	0.45500	0.00707	0.01000
Method Group 137.XX PCT			8	0.62807	0.07014	0.00979	8	0.62807	0.07014	0.00979
Valine, Post-col Ninhydrin Der .....	994.12	138.00	11	0.93070	0.08491	0.01834	10	0.92728	0.08729	0.01117
Valine, Pre-col AQC Der .....		138.05	2	0.98075	0.04735	0.03650	2	0.98075	0.04735	0.03650
Method Group 138.XX PCT			13	0.93840	0.08164	0.02113	12	0.93619	0.08368	0.01539
Taurine, Post-col Ninhydrin Der .....	994.12	139.00	1	0.04000	0.01414	0.02000	1	0.04000	0.01414	0.02000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 000.03	--	--	Method 001.07	--	--	Method 001.99	--	--	Method 002.02	--	--	Method 002.05	--
861	2.7750	.71	049	9.3750 R	.54	630	9.4600	.42	043	21.465	1.03	552	20.720	-1.17
			588	9.4550	.46	Avg	9.4029		297	21.420	.90	620	20.688	-1.30
--	Method 000.99	--	413	9.4500	.45	615	9.3900	-.06	669	21.360	.75	596	20.650	-1.37
265	0.8900	.71	035	9.4350	.38	676	9.3680	-.12	152	21.310	.61	625	20.590	-1.54
			695	9.4200	.34	665	9.3100	-.32	036	21.165	.34			
--	Method 001.00	--	177	9.4050	.30	619	9.3400	-.32	Avg	21.084		--	Method 002.06	--
504	10.490 S	2.06	581	9.4000	.29	729	9.3950	-.32	307	20.750	-.98	233	23.230 s	6.89
596	10.050	1.28	089	9.4000	.28	505	9.2850	-.48	042	20.715	-.99	799	22.480 s	3.22
001	9.9200	1.06	278	9.3450	.25	357	9.1950	-.72	169	20.485	-1.62	018	22.240	2.47
783	9.6250	.55	843	9.3700	.22	720	9.1450	-.91				761	22.160	2.20
169	9.4800	.30	849	9.3750	.21	096	9.4000 R	-1.02	--	Method 002.03	--	791	22.165	2.19
861	9.4800	.30	178	9.3500	.20	853	8.7200	-2.36	536	21.520	.71	751	22.160	2.18
Avg	9.4400		689	9.3500	.20	541	8.1250 s	-4.36				037	22.040	1.83
309	9.2500	-.12	669	9.3050	.10	536	6.7750 s	-8.96	--	Method 002.04	--	511	21.980	1.67
844	9.2100	-.18	Avg	9.3028					018	21.545	.98	554	21.910	1.58
029	9.1400 R	-.36	675	9.2900	-.05	--	Method 002.00	--	504	21.465	.67	014	21.820 R	1.53
733	8.5050	-1.39	353	9.2700	-.13	199	21.670	1.24	Avg	21.209		160	21.935	1.52
560	8.2650 S	-1.81	297	9.1850	-.35	015	21.385	.83	638	21.175	-.13	001	21.905	1.43
			187	9.1650	-.40	028	21.280	.67	596	20.650	-1.44	615	21.735 R	1.37
--	Method 001.03	--	083	9.1250	-.52	Avg	20.997		728	19.950 S	-3.29	016	21.850	1.34
688	9.4500	.92	045	9.1000	-.65	679	20.380	-.65	187	19.070 S	-5.51	032	21.800	1.15
567	9.4000	.62	171	9.0600	-.72	845	20.270	-.83				843	21.780	1.08
Avg	9.2813		679	9.0000	-.87	826	19.955 S	-1.31	--	Method 002.05	--	202	21.670	1.04
731	9.2800	-.10	345	8.9450	-1.03				621	21.815	1.82	108	21.600 R	1.03
686	8.9950	-1.50	845	8.8700	-1.26	--	Method 002.01	--	852	21.750	1.65	512	21.620	1.01
			074	8.6950	-1.81	710	21.245	1.26	622	21.678	1.46	712	21.630	.98
--	Method 001.05	--	015	8.6400	-1.94	652	21.200	1.21	401	21.560	1.12	695	21.650	.95
610	9.1350	.71	038	8.3600	-2.71	731	21.185	.84	849	21.290	.39	300	21.575	.93
			618	7.6750 s	-4.67	860	21.140	.51	083	21.240	.37	425	21.735	.92
--	Method 001.07	--				723	21.140	.42	039	21.278	.36	670	21.725	.89
307	10.000	2.02	--	Method 001.08	--	350	21.121	.40	178	21.250	.31	830	21.515	.86
142	10.000	2.00	590	9.3200	.00	Avg	21.094		177	21.210	.19	588	21.705	.85
559	9.8350	1.53				848	21.030	-.59	194	21.175	.08	229	21.700	.82
366	9.5500 R	1.23	--	Method 001.99	--	716	21.000	-1.14	Avg	21.149		673	21.700	.82
199	9.6750	1.07	681	10.025	2.12	098	20.950	-1.27	674	21.055	-.26	190	21.695	.80
592	9.5550	.73	629	9.7500	1.20	043	20.930	-1.37	855	21.030	-.33	618	21.640	.79
098	9.5100	.60	638	9.6000	.68				658	21.021	-.36	100	21.640	.67
571	9.5000	.57	037	9.5300	.49				354	20.925	-.61	035	21.650	.67
693	9.4550	.57	656	9.5300	.47				689	20.900	-.73	205	21.630	.67

\* 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 002.10	--	--	Method 003.00	--
019	21.635	.62	829	21.410	-.07	106	21.045	-1.12	596	20.650	-1.63	035	3.3200	.42
013	21.455	.61	813	21.380	-.16	853	21.045	-1.13				848	3.2650	.42
413	21.600	.60	650	21.370	-.17	042	21.010	-1.25	--	Method 002.11	--	164	3.2450	.03
171	21.600	.60	626	21.365	-.18	132	20.960	-1.38	032	23.200 S	1.93	Avg	3.2413	
366	21.600	.60	034	21.365	-.18	119	20.905	-1.54	665	22.710 S	1.28	726	3.2343	-.03
263	21.626	.60	417	21.390	-.20	539	20.910	-1.54	720	22.545	1.07	354	3.1850	-.27
529	21.620	.60	175	21.350	-.26	510	20.900	-1.55	178	22.250	.70	152	3.1500	-.50
646	21.615	.60	265	21.350	-.26	674	20.945 R	-1.73	713	21.995	.33	345	3.1500	-.50
590	21.600	.54	619	21.350	-.26	026	20.805	-1.84	688	21.950	.28	596	3.1500	-.50
029	21.605	.54	610	21.400	-.30	686	20.750	-2.00	Avg	21.546		265	3.2000	-.52
038	21.600	.52	089	21.320	-.31	567	20.900 R	-2.14	628	21.635	-.16	300	3.1100	-.67
358	21.455	.47	407	21.320	-.31	011	21.080 R	-2.26	567	21.550	-.27	142	3.1000	-.68
021	21.565	.45	049	21.335	-.33	596	20.650	-2.30	588	21.495	-.35	615	3.0250	-1.10
676	21.544	.42	783	21.320	-.33	168	20.895 s	-2.33	731	21.400	-.47	353	2.9950	-1.19
164	21.565	.42	017	21.315	-.34	782	20.660	-2.36	679	21.315	-.58	026	2.9950	-1.20
294	21.555	.39	096	21.385	-.36	027	20.625	-2.37	297	21.295	-.62	132	2.9400	-1.47
809	21.455	.38	656	21.345	-.37	309	20.605 s	-2.58	011	20.800	-1.26	309	2.9500	-1.57
573	21.530	.36	009	21.305	-.39	043	20.435	-2.93	553	20.325	-1.89	015	2.6800 R	-2.85
598	21.430	.36	574	21.255	-.51				727	19.208 S	-3.37			
742	21.540	.35	505	21.250	-.52	--	Method 002.08	--				--	Method 003.01	--
520	21.465	.33	010	21.350	-.52	610	21.450	.82	--	Method 002.99	--	504	2.3650	-.71
541	21.530	.33	098	21.250	-.54	062	21.428	.75	536	21.555 R	1.07			
726	21.530	.32	357	21.220	-.61	706	21.200	.18	305	21.695	.79	--	Method 003.06	--
074	21.505	.31	353	21.265	-.66	208	21.200	.12	588	21.570	.57	689	3.9500 S	3.14
630	21.460	.29	142	21.200	-.66	Avg	21.159		065	21.536	.52	074	3.7900	2.55
345	21.425	.28	692	21.185	-.71	563	20.515	-1.79	613	21.400	.32	852	3.5000	1.51
144	21.515	.27	693	21.180	-.73				Avg	21.230		574	3.3600 R	1.43
003	21.515	.27	036	21.165	-.77	--	Method 002.10	--	643	21.155	-.18	588	3.4250	1.19
504	21.505	.24	045	21.150	-.82	727	22.020 s	3.19	681	20.025	-2.04	688	3.4000	1.09
825	21.500	.23	354	21.145	-.83	861	21.530	1.38				511	3.3000	.73
660	21.470	.22	592	21.200	-.89	629	21.425	1.01	--	Method 003.00	--	658	3.2000	.51
571	21.497	.22	720	21.100	-.98	628	21.330	.78	563	3.6451	1.94	559	3.2200	.46
738	21.480	.17	242	21.095	-.98	619	21.350	.78	190	3.5900	1.71	003	3.1450	.42
278	21.450	.17	148	21.090	-.99	546	21.180	.19	032	3.5700	1.62	229	3.1200	.19
733	21.425	.13	226	21.100	-1.00	675	21.135	.06	175	3.4200	.92	009	3.1300	.11
787	21.425	.13	827	21.245 R	-1.02	Avg	21.127		307	3.4000	.90	Avg	3.1072	
767	21.435	.04	199	21.070	-1.06	688	21.050	-.31	106	3.4100	.81	294	3.0950	-.05
Avg	21.424		559	21.070	-1.08	160	20.840	-.98	039	3.3775	.66	305	3.0850	-.08
298	21.410	-.05	687	21.050	-1.12	729	20.780	-1.26	194	3.3650	.60	148	3.0750	-.12

\* 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 003.06	--	--	Method 003.10	--	--	Method 003.11	--	--	Method 003.14	--	--	Method 004.00	--
669	3.0650	-.18	706	3.5000	2.05	032	2.9500 R	.42	144	2.8800	-.46	171	5.6250	.15
425	3.0500	-.21	619	3.5000	2.00	297	2.9550	.27	175	2.8300	-.57	298	5.6800	.13
169	3.0450	-.23	618	3.4420	1.71	713	2.9400	.15	598	2.6000	-1.50	164	5.6500	.13
083	2.9500	-.61	098	3.3700	1.37	Avg	2.9217		853	2.3650	-2.40	Avg	5.6225	
199	2.9150	-.72	178	3.2500 R	1.07	688	2.9000	-.16	108	2.5950 s	-2.78	596	5.6000	-.05
297	2.9550	-.81	366	3.2500	.83	588	2.8700	-.44				425	5.5000	-.28
552	2.8850	-.83	679	3.2500	.80	011	2.8000	-.89	--	Method 003.99	--	194	5.4750	-.34
731	2.8200	-1.09	676	3.2110	.60	178	2.8000	-.89	787	4.7850 s	5.04	681	5.5800	-.42
625	2.7750	-1.24	208	3.1600	.41	727	2.6049	-2.32	681	3.8800	2.07	009	5.3450	-.64
621	2.5200	-2.19	045	3.1200	.19				727	3.6399	1.43	175	5.3300	-.67
			062	3.0860	.14	--	Method 003.12	--	712	3.2450	.50	726	5.2466	-.86
--	Method 003.09	--	233	3.1100	.12	670	3.5150	1.46	630	3.2100	.22	510	5.1000	-1.19
510	3.4500	2.09	Avg	3.0850		Avg	3.2013		738	3.1600	.07	199	5.0950	-1.22
620	3.3948	1.64	855	3.0800	-.05	357	3.2000	-.01	Avg	3.1445		504	5.1700 R	-1.24
723	3.3550	1.33	623	3.0809	-.12	628	3.1250	-.36	861	3.0750	-.20	695	5.0500	-1.34
590	3.3250	1.24	573	3.0640	-.12	171	2.9650	-1.11	047	3.0700	-.29	132	4.9800	-1.47
038	3.2900	.83	629	3.0750	-.13				588	2.9700	-.49	034	4.7900	-1.90
226	3.2000	.78	693	3.0200	-.33	--	Method 003.13	--	536	2.8900	-.72	039	4.6020	-2.33
505	3.2600	.71	042	3.0050	-.38	028	3.8750 s	6.98	710	2.7400	-1.14			
638	3.2250	.38	119	3.0050	-.40	646	3.1900	1.14	546	2.7100	-1.30	--	Method 004.01	--
651	3.2265	.35	034	3.0000	-.41	187	3.1600	.72	613	2.0300 S	-3.14	693	7.1800	.86
033	3.2100	.21	695	3.0000	-.50	011	3.0750	.60				Avg	6.9150	
673	3.2000	.14	100	2.9800	-.51	Avg	3.0718		--	Method 004.00	--	366	6.6500	-.87
098	3.1850	.04	728	2.9700	-.56	205	3.0490	-.22	169	6.4600	1.92			
Avg	3.1822		089	2.9100	-.84	660	2.8850	-1.51	855	6.3100	1.59	--	Method 004.03	--
675	3.1550	-.24	298	2.9000	-.89				265	6.1500	1.25	045	6.4850	1.28
860	3.1400	-.33	720	2.8250 R	-1.36	--	Method 003.14	--	511	6.1500	1.21	Avg	6.1450	
001	3.1400	-.33	202	2.7750	-1.49	413	3.2500	1.25	563	6.0579	1.00	619	6.0150	-.49
674	3.1600	-.42	160	2.7250	-1.73	407	3.2700	1.17	706	5.9750	.81	679	5.9350	-.79
354	3.1200	-.50	242	2.7050	-1.85	581	3.2300	1.04	015	5.9700	.80			
350	3.1039	-.60				520	3.1250	.92	345	5.9500	.76	--	Method 004.06	--
027	3.1050	-.62	--	Method 003.11	--	049	3.1800	.82	353	5.9050	.68	676	7.0250	2.40
263	3.0980	-.65	553	3.8750 s	6.96	567	3.0000	.41	226	5.9000	.67	728	6.8400	2.02
013	3.0750	-1.01	665	3.6850 s	5.57	019	3.0450	.29	208	5.7950	.40	178	6.1000 R	1.14
849	3.0350	-1.13	567	3.1000	1.30	021	2.9950	.20	042	5.7450	.32	845	6.2350 R	1.13
358	3.0100	-1.43	731	3.0800	1.17	Avg	2.9723		559	5.7450	.29	027	6.4000	1.13
554	2.9650 R	-1.97	628	3.0200	.72	529	2.9450	-.12	190	5.7250	.27	849	6.3850	1.08
656	2.9100	-2.18	720	3.0100	.66	278	2.9500	-.22	354	5.7200	.22	621	6.3150	.95
			679	2.9800	.45	686	2.9200	-.31	309	5.7150	.21	716	6.3000	.93

\* 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 004.06	--	--	Method 004.07	--	--	Method 004.11	--	--	Method 005.00	--	--	Method 005.00	--
638	6.3000	.91	028	5.4500	.75	679	5.3450	-.23	621	7.2400	1.05	229	7.0450	.21
029	6.1050	.54	529	5.5200	.67	628	5.2850	-.35	350	7.2331	1.03	171	7.0250	.16
552	6.0650	.47	019	5.3100	.61	720	5.1000	-.70	226	7.2000 R	.98	001	7.0250	.12
038	6.0750	.45	300	5.3600	.53	727	5.0694	-.78	407	7.2200	.97	034	7.0200	.11
354	6.0400	.38	229	5.4250	.39	567	4.7500 R	-1.61	590	7.2100	.93	723	7.0150	.08
205	6.0200	.37	686	5.4200	.38	553	4.1700	-2.47	148	7.2000	.89	625	7.0100	.06
588	6.0350	.36	708	5.3750	.32	--	Method 004.99	--	629	7.2000	.89	563	6.9999	.02
673	5.9000	.09	294	5.2850	.08	613	6.9850	1.54	688	7.2000	.88	Avg	6.9968	
Avg	5.8570		Avg	5.2657		626	6.2300	.67	541	7.0050 R	.85	199	6.9950	-.02
350	5.8123	-.10	520	5.1950	-.22	Avg	5.8300		619	7.1900	.84	298	6.9900	-.05
675	5.7800	-.16	098	5.1750	-.22	628	5.5750	-.40	742	7.1750	.78	354	6.9850	-.06
710	5.7650	-.19	042	5.1800	-.23	588	5.2250	-.81	132	7.1700	.75	242	6.9850	-.06
688	5.7500	-.24	278	5.1500	-.30	598	5.1350	-.93	712	7.1550	.74	305	6.9800	-.11
674	5.7150	-.29	026	5.1200	-.35	--	Method 005.00	--	559	7.1650	.73	083	6.9750	-.14
848	5.6600	-.40	032	5.1050	-.40	720	7.7200 s	3.22	767	7.1600	.71	675	6.9600	-.17
723	5.6800	-.41	160	5.0300	-.57	038	7.5400	2.36	045	7.1550	.70	505	6.9800	-.19
656	5.7200	-.42	567	5.0300	-.58	062	7.4705	2.06	646	7.1550	.69	278	6.9550	-.19
098	5.6450	-.48	033	5.0200	-.60	592	7.4150	1.81	674	7.1200 R	.69	119	6.9500	-.20
860	5.5950	-.54	035	4.9700	-.71	676	7.4085	1.79	651	7.1465	.65	751	6.9600	-.21
590	5.5450	-.64	505	4.9750	-.72	552	7.3900 R	1.77	588	7.1450	.64	782	6.9550	-.27
720	5.5350	-.68	003	4.9700	-.72	142	7.4000	1.75	035	7.1450	.64	353	6.9450	-.27
620	5.3311	-1.08	013	4.8950	-.90	731	7.3900	1.71	686	7.1350	.61	813	6.9150	-.37
689	5.2500	-1.25	413	4.9500 R	-1.14	108	7.3250 R	1.49	643	7.1200	.54	358	6.9150	-.39
610	5.1000	-1.56	536	4.9150	-1.14	504	7.3150 R	1.45	660	7.1100	.54	297	6.9000	-.42
670	5.0550	-1.66	307	4.7000	-1.37	679	7.3300	1.45	152	7.1200	.53	689	6.9000	-.42
731	4.8250	-2.13	242	4.6250	-1.55	357	7.3000	1.31	729	7.1100	.50	510	6.9000	-.42
--	Method 004.07	--	100	4.6050	-1.60	413	7.2500 R	1.28	638	7.1100	.49	553	6.9450	-.43
407	8.9100 s	8.80	646	4.6000	-1.63	669	7.2850	1.25	187	7.1100	.49	300	6.8950	-.44
089	6.4250	2.80	202	4.1400 A	-2.81	294	7.2850	1.25	829	7.1050	.48	144	6.9450 R	-.51
021	5.8150	1.46	--	Method 004.11	--	695	7.2800	1.23	164	7.1050	.47	520	6.9000	-.52
581	5.8050	1.32	588	6.0350	1.09	307	7.2700	1.18	178	7.1000	.45	202	6.8800	-.52
144	5.7500	1.17	688	6.0000	1.04	345	7.2550	1.13	693	7.0900	.40	194	6.8750	-.53
096	5.5500 R	1.09	032	5.9500	.93	783	7.2550	1.13	710	7.0850	.39	208	6.8700	-.59
554	5.6000	1.08	713	5.9200	.87	716	7.2500	1.12	098	7.0650	.38	089	6.8600	-.59
643	5.6800	1.02	731	5.6500	.38	567	7.2500	1.12	761	7.0800	.36	848	6.8550	-.62
592	5.6600	1.00	178	5.6000	.32	029	7.2500	1.11	620	7.0625	.34	100	6.8550	-.62
074	5.5600	.87	Avg	5.4645		622	7.2486	1.11	366	7.0500	.32	849	6.8450	-.66
610	5.6000	.81	011	5.4500	-.10				656	7.0300	.30	650	6.8350	-.71

\* 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 005.00	--	--	Method 005.11	--	--	Method 008.02	--	--	Method 008.99	--	--	Method 009.09	--
205	6.8245	-.75	720	8.1250 S	1.05	Avg	7.2488		307	8.7000 S	3.33	202	15.055	-.72
658	6.8225	-.76	628	7.7800	.24	171	7.1550	-.32	297	7.4200	.92	049	15.245 R	-.72
623	6.8395	-.77	731	7.7300	.12	353	7.1550	-.39	610	7.2000	.54	646	15.025	-.74
630	6.8150	-.79	Avg	7.4525		675	7.1750	-.45	358	6.9650	.30	536	15.400 R	-.77
401	6.8000	-.85	665	7.1650	-1.21	309	7.0750	-.64	Avg	6.9316		686	14.880	-.93
033	6.7900	-.90	713	7.1350	-1.29	045	7.0000	-.93	676	6.1415	-1.51	581	14.505	-1.36
830	6.8000	-.91	727	6.1453 S	-3.62	619	6.7100	-1.58	--	Method 009.04	--	164	14.250	-1.67
265	6.8500 R	-.91	--	Method 005.99	--	590	6.5250	-2.16	504	21.760 S	.00	--	Method 009.99	--
670	6.7500	-1.09	588	7.8600	1.88	--	Method 008.05	--	--	Method 009.07	--	619	20.850 S	3.96
160	6.7450	-1.09	628	7.7700	1.64	265	7.8500	.71	045	17.350	1.43	613	17.370	1.08
598	6.7350	-1.14	826	7.4200 R	1.26	--	Method 008.08	--	226	17.000	1.09	610	16.750	.67
027	6.7150	-1.22	727	7.4250	.69	536	7.9000 R	2.41	083	16.850	.92	676	16.453	.35
015	6.7000	-1.29	652	7.4000	.68	001	7.8300	1.60	307	16.300 R	.62	Avg	16.075	
169	6.6900	-1.33	861	7.2800	.37	646	7.6250	1.31	297	16.510	.57	720	15.600	-.40
021	6.6850	-1.35	574	7.1950	.19	106	7.6050	1.17	590	16.300	.37	643	13.815	-1.87
175	6.6850	-1.35	673	7.2000	.08	413	7.5500	1.17	675	16.000	.05	--	Method 010.03	--
615	6.6450	-1.53	Avg	7.1706		581	7.5650	1.10	Avg	15.950		027	10.005	.90
309	6.6400	-1.55	546	7.0900	-.23	202	7.4550	.91	187	15.850	-.10	Avg	9.6150	
417	6.6400	-1.57	065	7.0784	-.25	032	7.2650	.80	309	15.490	-.49	843	9.2250	-.83
733	6.6350	-1.57	096	7.1000	-.33	037	7.3450	.69	693	15.385	-.60	546	7.2550 S	-4.88
539	6.6150	-1.66	536	6.8350	-.91	693	7.1800	.36	353	14.520	-1.46	618	6.9509 S	-5.54
049	6.6100	-1.69	728	6.8350	-1.11	592	7.0850	.20	098	14.200	-1.80	826	6.6350 S	-6.16
809	6.6000	-1.75	613	6.6900	-1.31	Avg	6.9964		--	Method 009.09	--	--	Method 010.11	--
618	6.5906	-1.76	681	6.6300	-1.48	354	6.8100	-.36	510	17.150	1.80	567	10.150 s	3.78
799	6.5850	-1.79	--	Method 006.05	--	357	6.8000	-.38	592	17.020	1.65	628	9.8750	1.35
855	6.5700	-1.85	710	6.1900	.71	278	6.9500	-.49	106	16.875	1.48	727	9.8019	1.33
853	6.5700	-1.88	--	Method 008.02	--	049	6.8400	-.54	265	16.450	1.01	713	9.7850	.70
425	6.5250	-2.05	148	7.7750	1.53	026	6.6350	-.70	357	15.850	.26	731	9.7250	.11
827	6.4800	-2.26	038	7.7300	1.44	160	6.4950	-.97	294	15.815	.25	Avg	9.7124	
706	6.3050 A	-3.00	187	7.5750	.95	669	6.5700	-1.00	354	15.750	.14	178	9.6500	-.65
--	Method 005.02	--	083	7.4500	.60	510	6.5000	-1.03	037	15.715	.09	688	9.6500	-.65
610	7.1200	.71	098	7.3300	.57	294	6.3100	-1.32	Avg	15.643		679	9.7000	-.66
--	Method 005.11	--	098	7.3300	.57	164	6.3000	-1.35	278	15.550	-.13	720	9.6250	-.74
178	10.750 s	7.26	504	7.4200	.51	686	6.2100	-1.52	669	15.565	-.31	588	9.6000	-1.60
588	8.7750 S	2.61	035	7.4000	.44				413	15.300	-.43			
688	8.2500 S	1.35	226	7.2500	.43				160	15.170	-.57			
679	8.1450 S	1.10	728	7.2550	.05									

\* 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 010.99	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 012.01	--	--	Method 013.02	--
621	10.405	1.96	194	10.485	.68	152	10.050	-.84	676	32.000	1.22	761	4.5450	.62
417	10.190	1.55	300	10.450	.56	098	10.115	-.85	Avg	29.365		742	4.5500	.53
652	9.6500	.51	309	10.450	.56	034	10.040	-.86	686	28.695	-.41	843	4.5250	.52
588	9.4900	.33	520	10.420	.53	298	10.020	-.93	096	27.400	-.92	813	4.5250	.48
673	9.5500	.32	510	10.400	.52	646	10.035	-.94	--	Method 012.03	--	827	4.4700	.38
716	9.5000	.21	767	10.425	.47	674	10.035	-.94	098	29.900	1.19	643	4.4650	.38
852	9.4000	.19	164	10.410	.42	033	10.020	-.98	Avg	29.525		164	4.4550	.35
Avg	9.3935		401	10.350	.35	175	10.000	-1.00	297	29.150	-.28	171	4.3700	.28
032	9.3500	-.13	148	10.380	.32	132	10.000	-1.01	--	Method 012.04	--	861	4.3700	.19
529	9.3100	-.17	813	10.355	.30	650	10.020	-1.02	825	4.2000	-.14	Avg	4.2734	
065	9.2775	-.23	242	10.345	.21	553	9.9850	-1.08	038	31.010	1.15	767	4.1750	-.19
168	9.1350	-.52	782	10.328	.18	598	9.9750	-1.09	106	30.800	.96	553	4.1600	-.22
613	9.0900	-.59	144	10.305	.16	062	9.9505	-1.17	160	30.040	.42	354	4.1700	-.24
628	8.9500	-.86	026	10.290	.14	710	9.9100	-1.31	Avg	29.443		208	4.2050	-.26
727	8.2110	-2.29	202	10.305	.06	552	9.8750	-1.48	353	29.160	-.20	675	4.1350	-.27
712	7.4400 s	-3.80	761	10.300	.04	660	9.8550	-1.50	278	28.450	-.71	853	4.0150	-.49
--	Method 011.01	--	350	10.294	.02	643	9.9000 R	-1.51	510	27.200	-1.59	148	4.0100	-.50
294	89.820 s	274.78	Avg	10.289		541	10.045 R	-1.63	--	Method 012.11	--	650	3.9900	-.57
108	11.570 s	4.52	229	10.270	-.10	658	9.7625	-1.82	679	34.070	1.06	026	3.8350	-.84
573	11.151	2.98	675	10.265	-.10	574	9.7250 R	-2.05	713	33.595	.70	016	3.6450	-1.20
827	10.875	2.03	623	10.249	-.15	208	9.5400	-2.59	731	33.385	.54	855	3.5950	-1.30
305	10.825	1.85	354	10.240	-.18	265	9.6000 s	-3.16	Avg	32.625		229	3.1800	-2.09
596	10.800	1.80	119	10.250	-.19	407	8.9600 s	-4.59	727	31.309	-.93	751	3.0700	-2.30
751	10.750	1.62	100	10.235	-.27	014	8.4215 s	-6.45	720	30.765	-1.31	--	Method 013.10	--
559	10.710	1.49	539	10.195	-.33	--	Method 011.99	--	--	Method 012.99	--	843	4.5250	2.01
848	10.665	1.30	620	10.235	-.34	588	30.620 S	.00	619	46.200 S	.00	660	4.3150	1.59
738	10.655	1.27	160	10.195	-.36	--	Method 012.00	--	--	Method 013.02	--	652	4.2000	1.36
825	10.650	1.26	171	10.275	-.40	613	33.070	1.50	848	6.1500 s	3.58	656	4.2350	1.14
670	10.620	1.15	855	10.250	-.40	559	32.050	.74	830	5.5700	2.47	733	3.9250	.23
728	10.600	1.08	809	10.150	-.49	354	31.685	.47	791	5.5100 R	2.43	353	3.8700	.19
791	10.570	1.02	651	10.135	-.54	Avg	31.036		100	4.9000	1.20	177	3.8800	.11
358	10.560	.99	830	10.160	-.54	567	30.950	-.07	676	4.8745	1.15	Avg	3.8491	
233	10.550	.91	829	10.110	-.63	716	31.000	-.15	826	4.8400	1.09	673	3.8000	-.14
723	10.530	.83	625	10.170	-.64	689	29.450	-1.17	809	4.8100	1.09	062	3.8000	-.19
742	10.520	.80	622	10.084	-.74	178	30.150 R	-1.17	799	4.6500 R	.97	539	3.7400	-.38
799	10.505	.75	563	10.069	-.77	673	29.050	-1.45	716	3.6100	-.70	638	3.6500	-.60
205	10.473	.73	706	10.060	-.80	--			--			716	3.6100	-.70
843	10.495	.72	511	10.075	-.81	--			--			--		
			021	10.050	-.83									

\* 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 013.10	--	--	Method 017.00	--	--	Method 019.01	--	--	Method 019.01	--	--	Method 019.05	--
096	3.6200	-.76	021	15.900	1.79	178	1.4100	1.86	169	1.2750	-1.32	512	1.3285	-.48
688	3.6000	-.79	049	13.255 R	.76	108	1.3650 R	1.68	305	1.2650	-1.55	298	1.3100	-.49
610	3.4500	-1.18	560	14.050	.55	670	1.4000	1.60	350	1.2627	-1.62	164	1.3150	-.57
160	3.3650	-1.43	345	13.800	.49	208	1.3950	1.45	710	1.2550	-1.78	265	1.3100	-.57
845	3.2550 R	-2.25	Avg	13.229		720	1.3850	1.35	650	1.2500	-1.91	208	1.2965	-.70
--	Method 013.11	--	045	13.200	-.02	263	1.3876	1.28	--	Method 019.03	--	553	1.2900	-.80
417	3.7000	.71	693	12.380	-.59	307	1.3800	1.20	036	1.4185	1.13	358	1.3050	-.81
--	Method 013.12	--	353	11.855	-.96	619	1.3400 R	.94	043	1.4050	.86	695	1.2850	-.89
720	3.7650	1.28	510	11.420	-1.21	536	1.3680	.91	Avg	1.3597		168	1.2770	-1.03
Avg	3.2917		--	Method 017.99	--	018	1.3700	.91	307	1.3350	-.48	610	1.2750	-1.07
588	3.1200	-.46	307	13.400	1.17	354	1.3700	.91	686	1.3550	-.48	089	1.2700	-1.15
731	2.9900	-.81	Avg	13.320		034	1.3700	.88	026	1.2850	-1.42	026	1.2600	-1.33
--	Method 013.13	--	358	13.240	-.36	019	1.3650	.77	--	Method 019.05	--	300	1.2505	-1.52
581	4.4700	.71	--	Method 018.02	--	563	1.3623	.70	003	1.5450 s	3.65	144	1.2050	-2.32
--	Method 013.99	--	011	0.0918	1.06	731	1.3600	.69	098	1.4350	1.74	--	Method 019.08	--
628	4.7500	1.20	Avg	0.0909		038	1.3350	.58	226	1.4050	1.34	729	1.4450	1.46
065	4.6380	1.06	154	0.0900	-.61	205	1.3550	.54	510	1.4100	1.28	673	1.3800	.45
Avg	3.7746		--	Method 019.00	--	675	1.3547	.54	049	1.4050	1.27	689	1.3750	.42
689	3.4500	-.40	681	1.5100	1.97	687	1.3450	.46	413	1.4050	1.22	848	1.3650	.20
613	3.1450	-.77	043	1.4500	1.34	588	1.3470	.36	860	1.4050	1.20	Avg	1.3533	
588	2.8900	-1.09	552	1.3750 R	.96	036	1.3435	.27	511	1.4000	1.12	590	1.2800	-1.18
--	Method 015.00	--	623	1.3883	.70	656	1.3400	.18	598	1.4000	1.11	629	1.2750	-1.25
520	102.00 s	4.58	658	1.3795	.61	638	1.3350	.13	520	1.4000	1.11	--	Method 019.09	--
345	80.645	1.65	651	1.3570	.42	001	1.3355	.10	242	1.3400 R	1.04	028	1.4950 s	4.03
049	77.410 R	1.47	194	1.3550	.36	Avg	1.3320		148	1.3945	1.01	160	1.4770 A	3.29
154	75.000	.90	679	1.3450	.25	723	1.3250	-.20	029	1.3915	1.00	017	1.4250	2.06
353	73.595	.77	Avg	1.3365		152	1.3300	-.24	297	1.3600	.41	032	1.4200	1.92
560	70.200	.32	689	1.3100	-.12	612	1.3300	-.24	100	1.3550	.34	027	1.4060	1.60
169	69.450	.21	849	1.3090	-.13	669	1.3305	-.36	074	1.3500	.30	202	1.3950	1.34
Avg	68.124		620	1.3077	-.14	505	1.3150	-.41	171	1.3400	.19	199	1.3855	1.13
011	66.126	-.34	716	1.3000	-.22	039	1.3130	-.44	083	1.3400	.19	045	1.3800	1.02
164	60.500	-1.01	622	1.2439	-.82	142	1.3000	-.74	Avg	1.3362		366	1.3750	.94
510	59.500	-1.15	621	1.2300	-.96	233	1.3000	-.77	294	1.3350	-.09	572	1.3650	.66
021	58.100	-1.34	625	1.2250	-1.01	035	1.3000	-.77	229	1.3200	-.33	560	1.3600	.53
--		--	175	1.1100 S	-2.21	014	1.2980	-.85	011	1.3171	-.34	567	1.3500	.38
--		--	--		--	646	1.2900	-1.00	407	1.3100	-.45	848	1.3400	.24
--		--	--		--	013	1.2900	-1.07	425	1.3100	-.45	726	1.3448	.19
--		--	--		--	026	1.2850	-1.09	--		--	--		--
--		--	--		--	674	1.2850	-1.14	--		--	--		--

\* 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 019.09	--	--	Method 020.01	--	--	Method 022.01	--	--	Method 022.03	--	--	Method 022.05	--
Avg	1.3368		Avg	3.8343		504	646.73 s	503.60	242	20.000	.61	035	20.000	-.16
345	1.3350	-.12	171	3.2500	-.66	536	29.625 s	5.68	083	20.500	.54	106	20.050	-.18
190	1.3350	-.12	021	2.8600	-1.10	032	25.705 s	4.05	164	20.500	.54	045	19.950	-.22
038	1.3250	-.30	560	2.7600	-1.22	674	23.125 R	2.43	011	20.398	.42	366	19.500	-.48
353	1.3250	-.44				588	23.000	1.92	098	20.000	.16	038	19.500	-.48
037	1.3250	-.44	--	Method 020.99	--	038	22.500	1.66	148	19.760	.05	668	19.200	-.58
668	1.3265	-.53	675	3.5750	-.71	669	21.925	1.33	Avg	19.737		353	18.700	-.81
278	1.3150	-.61				350	21.500	1.09	358	19.380	-.30	345	18.270	-1.03
021	1.3050	-.74	--	Method 021.01	--	675	20.490	.50	265	19.500	-.33	567	18.500 R	-1.17
187	1.3050	-.74	619	2.2800	1.29	731	20.450	.48	510	19.500	-.33	154	17.400	-1.46
016	1.3050	-.81	Avg	1.7938		354	20.420	.45	100	19.000	-.44	628	16.750	-1.78
035	1.3000	-.85	164	1.6000	-.51	619	20.400	.44	610	19.000	-.44	169	15.250	-2.53
096	1.3000	-.85	563	1.5015	-.77	208	20.250	.36	171	19.050	-.52			
309	1.2950	-.97	689	0.1000 S	-4.44	638	19.700	.34	029	19.685	-.70	--	Method 022.99	--
693	1.2900	-1.10				035	20.000	.21	229	18.500	-.79	613	22.000	1.07
357	1.2850	-1.20	--	Method 021.02	--	563	19.635	.03	300	17.605	-1.27	692	20.350	.22
154	1.2800	-1.31	628	5.3350 s	11.28	Avg	19.623		208	17.450	-1.38	Avg	20.270	
106	1.2700	-1.56	567	1.8300	1.20	014	19.500	-.29	026	17.300	-1.44	846	18.460	-1.14
047	1.2450 R	-2.35	572	1.8050	1.12	590	18.650	-.57	695	16.000	-2.21			
			029	1.7100	.85	307	19.000	-.58				--	Method 023.01	--
--	Method 019.99	--	011	1.6753	.76	305	18.565	-.60	--	Method 022.05	--	619	0.0010	.00
588	1.6760 S	4.90	021	1.6150	.63	178	18.500	-.70	294	24.040	1.84			
613	1.4350	.99	154	1.6000	.53	710	18.500	-.70	160	23.690	1.70	--	Method 025.01	--
692	1.3900	.28	038	1.5500	.42	720	18.442	-.87	037	23.650	1.65	032	345.15 s	4.89
Avg	1.3756		629	1.4950	.23	505	17.000	-1.49	017	23.000	1.33	175	283.00	1.87
065	1.3019	-1.20	171	1.4500	.18	689	16.850	-1.58	202	22.000	.83	035	274.00	1.46
665	0.9900 S	-6.26	Avg	1.4139		656	16.435	-1.85	187	21.730	.70	013	267.50	1.20
			169	1.2400	-.50				278	20.700	.53	307	250.50 R	.92
--	Method 020.00	--	668	1.3950 R	-.62	--	Method 022.03	--	413	21.250	.47	354	257.50	.74
563	3.5940	.87	366	1.1000	-.94	144	33.850 s	8.37	309	21.205	.45	669	254.39	.70
Avg	3.4170		106	1.0700	-.99	598	23.500 s	3.47	021	20.850	.45	720	251.29	.55
164	3.2400	-.87	560	1.0450	-1.06	407	23.215	2.06	560	21.000	.34	563	250.55	.44
			693	0.6100	-2.31	003	22.500 R	1.86	032	20.500	.26	675	249.20	.38
--	Method 020.01	--				520	22.000	1.46	357	20.500	.26	038	247.00	.31
096	5.0000	1.32	--	Method 021.99	--	425	21.650	1.14	Avg	20.325		689	245.65	.29
154	4.8000	1.10	610	1.0580	.00	297	21.500	1.08	572	20.300	-.10	619	246.00	.24
668	4.3650 R	.96				226	21.000	.95	693	20.080	-.12	014	244.50	.20
567	4.2450	.64				629	21.000	.75	199	20.045	-.14	208	242.50	.09
011	3.9250	.10				049	19.925	.69	096	20.000	-.16	Avg	240.62	

\* 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 025.01	--	--	Method 025.03	--	--	Method 025.99	--	--	Method 027.03	--	--	Method 027.05	--
350	237.15	-.16	407	207.50	-.95	692	229.65	.35	083	24.500 s	2419.69	032	0.2590	1.15
670	232.50	-.37	860	189.76	-1.80	Avg	227.58		003	0.3200 s	6.55	366	0.2600	1.12
731	229.50	-.49	695	183.50	-2.10	613	225.50	-1.17	520	0.2750	2.12	357	0.2550	.79
505	220.50	-.88	003	184.00	-2.11	--	Method 026.00	--	413	0.2700	1.56	202	0.2550	.79
646	217.18	-1.03	168	181.00	-2.22	154	0.1170	.00	511	0.2700	1.56	278	0.2550	.79
305	205.72	-1.53	--	Method 025.05	--	--	Method 026.99	--	098	0.2700	1.56	199	0.2546	.53
710	204.00	-1.61	366	265.00 R	2.30	619	0.0000	.00	049	0.2600 R	1.15	572	0.2535	.44
716	193.50	-2.07	017	267.00	2.14	--	Method 027.01	--	029	0.2555	.58	021	0.2510	.26
674	87.680 s	-6.71	045	250.00	1.10	720	0.3000 s	3.86	510	0.2600	.56	017	0.2500	.02
--	Method 025.03	--	035	247.00	.91	305	0.2750	1.86	297	0.2600	.56	567	0.2500	.02
098	253.50	1.26	294	246.99	.91	208	0.2750	1.82	425	0.2600	.56	035	0.2500	.02
029	249.95	1.14	511	243.50	.83	650	0.2637	.93	610	0.2600	.56	693	0.2500	.02
629	250.00	1.08	160	243.50	.79	014	0.2600	.71	011	0.2597	.53	Avg	0.2498	
074	249.50	1.05	037	240.00	.54	142	0.2600	.64	171	0.2595	.52	309	0.2480	-.28
520	249.00	1.04	038	239.50	.45	505	0.2600	.64	100	0.2550	.50	628	0.2443	-.61
083	247.00	.94	413	239.00	.42	563	0.2585	.53	226	0.2550	.50	106	0.2435	-.75
510	244.00	.81	628	238.50	.39	350	0.2580	.48	164	0.2550	.50	045	0.2430	-.75
598	242.50	.74	353	233.70	.39	038	0.2540	.43	598	0.2585	.43	038	0.2420	-.87
242	242.50	.72	187	237.71	.34	536	0.2545	.24	208	0.2580	.36	187	0.2416	-.92
297	241.50	.67	021	236.00	.23	263	0.2523	.03	148	0.2555	.12	096	0.2400	-1.08
265	240.00	.67	693	232.54	.07	Avg	0.2519		Avg	0.2544		668	0.2445 R	-1.30
512	238.80	.57	Avg	232.27		619	0.2515	-.05	300	0.2510	-.34	037	0.2350	-1.65
100	239.00	.56	726	230.50	-.11	638	0.2500	-.15	242	0.2500	-.44	154	0.2290	-2.31
049	237.42	.52	345	228.40	-.25	731	0.2500	-.15	265	0.2500	-.44	--	Method 027.99	--
229	234.00	.42	199	228.90	-.26	307	0.2500	-.15	407	0.2480	-.63	613	0.5250 S	65.78
164	235.00	.36	668	228.00	-.27	588	0.2425	-.74	553	0.2470	-.84	692	0.2550	1.22
358	234.15	.34	567	231.50	-.28	169	0.2400	-.93	229	0.2450	-1.06	Avg	0.2547	
208	233.00	.27	096	225.00	-.54	035	0.2400	-.93	358	0.2450	-1.06	065	0.2544	-.12
148	229.70	.11	309	218.65	-.84	175	0.2400 R	-1.22	695	0.2437	-1.07	--	Method 028.01	--
Avg	227.44		106	219.50 R	-1.02	675	0.2345	-1.37	026	0.2437	-1.10	536	235.10 s	14.33
610	226.00	-.12	560	216.00	-1.05	646	0.2350	-1.38	144	0.2400	-1.43	674	154.77 S	3.81
171	222.50	-.25	190	210.33	-1.35	504	0.2408 R	-1.84	294	0.2400	-1.43	638	139.00 R	2.11
011	223.90	-.35	154	209.00	-1.43	710	0.2250	-2.15	629	0.2365	-1.78	014	140.00	1.99
425	217.20	-.49	169	185.50	-2.88	--	Method 027.05	--	--	Method 027.05	--	720	139.00	1.74
226	216.00	-.57	278	187.00 s	-3.10	160	0.2852 s	4.03	160	0.2852 s	4.03	013	132.50 R	1.43
144	212.40	-.72				353	0.2650	1.76	353	0.2650	1.76	038	132.50	1.07
026	212.50	-.72				560	0.2610	1.24	560	0.2610	1.24	175	133.00	1.04
300	211.40	-.77				345	0.2605	1.21	345	0.2605	1.21			

\* 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 028.01	--	--	Method 028.03	--	--	Method 028.05	--	--	Method 031.01	--	--	Method 031.01	--
669	131.88	.85	083	124.00	.21	309	122.45	-.79	623	0.6731	.73	646	0.5850 A	-3.95
208	132.00	.84	Avg	122.74		413	125.50	-.88	019	0.6750	.54			
505	131.50	.79	242	122.50	-.07	035	122.00	-.88	674	0.6750	.54	--	Method 031.02	--
354	131.50	.77	226	120.50	-.45	037	122.00	-.90	650	0.6750	.54	505	0.6750	1.15
035	130.50	.63	553	119.50	-.48	038	124.00	-.91	001	0.6750	.48	014	0.6690	.54
178	129.50	.54	610	119.00	-.52	096	125.00	-.99	350	0.6738	.42	013	0.6700	.38
590	126.70	.33	598	118.50	-.57	187	120.56	-1.15	354	0.6700	.23	Avg	0.6669	
731	126.50	.12	358	118.59	-.73	567	121.00	-1.21	563	0.6693	.21	011	0.6603	-.79
Avg	125.69		425	116.65	-.81	032	120.00	-1.27	651	0.6665	.10	043	0.6600	-1.46
629	124.00	-.26	164	116.50	-.90	353	119.75	-1.30	Avg	0.6653				
563	123.59	-.28	511	118.50 R	-.93	154	115.00 R	-2.56	675	0.6645	-.06	--	Method 031.03	--
307	122.50	-.46	026	113.50	-1.23	169	97.550 s	-5.50	263	0.6638	-.08	720	0.7200	1.50
689	121.80	-.58	144	113.00	-1.38				036	0.6630	-.12	208	0.6965	.74
588	120.50	-.68	300	110.75	-1.64	--	Method 028.99	--	205	0.6635	-.19	504	0.6855	.31
032	119.80	-.78	011	111.27	-1.64	613	133.00	.97	026	0.6650	-.25	036	0.6770	.00
675	118.71	-.91	407	107.50	-2.03	692	131.05	.50	723	0.6650	-.25	Avg	0.6770	
350	117.70	-1.05	695	96.000 s	-3.56	Avg	125.00		175	0.6650	-.25	026	0.6750	-.18
646	117.43	-1.08				846	110.94	-1.15	035	0.6600	-.26	043	0.6600	-.67
305	116.91	-1.18	--	Method 028.05	--				233	0.6600	-.26	307	0.6250	-1.77
619	116.50	-1.25	160	141.65 A	3.00	--	Method 031.00	--	669	0.6610	-.53	047	0.6250 R	-2.13
710	112.50	-1.74	017	139.00	2.33	729	0.7350	.88	638	0.6550	-.56			
			668	131.85 R	1.78	Avg	0.6852		687	0.6550	-.56	--	Method 031.05	--
			294	135.85	1.74	622	0.6354	-.85	710	0.6550	-.56	160	0.7376 A	2.97
--	Method 028.03	--	366	131.00	1.25				670	0.6550	-.56	358	0.7250	2.49
003	139.50	2.24	027	132.45	1.11	--	Method 031.01	--	849	0.6520	-.66	032	0.7045 R	1.91
860	136.24	1.80	693	128.80	1.11	665	0.7650 s	4.95	016	0.6515	-.68	560	0.7120	1.88
512	129.20	.91	202	131.00	.82	034	0.7100 R	2.41	656	0.6500	-.75	028	0.7000 R	1.85
098	129.50	.90	628	130.00	.74	621	0.7100	2.20	658	0.6475	-.88	598	0.7069	1.67
520	128.50	.90	560	128.50	.45	731	0.7050	1.97	194	0.6450	-1.02	074	0.7000	1.43
029	127.27	.80	045	129.00	.44	625	0.7000	1.71	716	0.6450 R	-1.24	860	0.7000	1.37
297	127.50	.64	106	128.50	.36	728	0.6950	1.48	142	0.6400	-1.24	572	0.6975	1.27
229	127.00	.58	190	128.52	.36	305	0.6900	1.21	038	0.6390	-1.36	278	0.6750 R	1.09
510	126.50	.51	357	128.00	.32	848	0.6900	1.21	588	0.6365	-1.41	300	0.6895	.99
049	125.84	.47	Avg	126.64		679	0.6850	1.00	152	0.6365	-1.41	226	0.6850	.97
100	126.00	.45	726	126.17	-.09	018	0.6830	.89	169	0.6350	-1.51	098	0.6900	.96
171	126.00	.45	021	126.50	-.47	619	0.6810	.89	689	0.6300	-1.73	848	0.6900	.96
208	126.00	.45	572	125.00	-.49	626	0.6800	.87	039	0.6191	-2.27	366	0.6900	.96
148	125.80	.41	345	123.85	-.53	178	0.6800	.87	108	0.6200 R	-2.43	668	0.6870	.95
074	125.00	.33	278	125.00	-.65	620	0.6827	.86	511	0.6050 R	-3.05	512	0.6865	.95
265	124.50	.24												

\* 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 031.05	--	--	Method 031.05	--	--	Method 032.01	--	--	Method 032.05	--	--	Method 032.05	--
029	0.6818	.92	229	0.6450	-.93	350	1.1153	-.27	567	1.1750	.55	049	1.1000 R	-1.90
003	0.6850	.78	294	0.6400	-1.11	142	1.1100	-.33	413	1.1800	.48	242	1.0350	-1.98
520	0.6850	.78	190	0.6350	-1.34	675	1.0919	-.63	366	1.1600	.35			
106	0.6717	.70	242	0.6350	-1.34	650	1.0900	-.67	083	1.1700	.33	--	Method 032.99	--
202	0.6800	.68	144	0.6350	-1.46	563	1.0808	-.80	035	1.1700	.28	032	1.1200	1.43
726	0.6828	.66	164	0.6350	-1.46	670	1.0055	-2.00	208	1.1550	.25	692	1.1200	.43
027	0.6820	.64	309	0.6169	-2.07	305	1.0000	-2.08	407	1.1650	.21	Avg	1.1129	
413	0.6800	.54	154	0.6028	-2.68	656	1.0200 s	-2.72	297	1.1650	.21	065	1.0987	-.51
610	0.6800	.54	037	0.5660 s	-4.18				345	1.1650	.21	613	0.8800 S	-8.22
353	0.6750	.40				--	Method 032.02	--	278	1.1650	.21	588	0.5415 S	-20.15
049	0.6750	.40	--	Method 031.06	--	716	1.2350	1.31	038	1.1650	.21			
038	0.6690	.38	536	0.7000	.71	014	1.2070	.87	199	1.1615	.17	--	Method 033.00	--
208	0.6720	.25	Avg	0.7000		108	1.1750	.66	300	1.1585	.12	013	1.3050 R	1.84
148	0.6725	.23	686	0.5600 S	-4.96	665	1.1700	.31	510	1.1600	.11	716	1.3050	1.32
265	0.6700	.13				588	1.1635	.17	Avg	1.1533		208	1.2950	1.20
Avg	0.6669		--	Method 031.99	--	Avg	1.1531		425	1.1500	-.05	366	1.2800	1.01
345	0.6650	-.22	673	0.6750	1.43	169	1.1350	-.37	021	1.1450	-.16	353	1.2700	.93
089	0.6600	-.28	590	0.6700	1.23	731	1.1300	-.40	045	1.1450	-.16	567	1.2650	.85
035	0.6600	-.28	588	0.6390	.12	590	1.1450	-.73	229	1.1400	-.22	675	1.2550	.71
297	0.6600	-.28	Avg	0.6365		536	1.0175	-2.16	693	1.1400	-.28	045	1.2500	.66
567	0.6600	-.28	692	0.6250	-.46				171	1.1350	-.32	309	1.2291	.45
425	0.6600	-.28	065	0.6215	-.56	--	Method 032.04	--	011	1.1335	-.34	298	1.2200	.31
510	0.6600	-.28	552	0.6250	-.69	638	1.1600	.71	164	1.1300	-.39	695	1.2100	.20
171	0.6600	-.35	613	0.6000	-1.39				358	1.1350	-.40	160	1.2100	.20
553	0.6580	-.42				--	Method 032.05	--	026	1.1300	-.42	689	1.2000	.13
096	0.6600	-.50	--	Method 032.01	--	265	1.4850 s	5.83	357	1.1250	-.48	693	1.2000	.13
083	0.6550	-.53	175	1.2300	1.59	294	1.3050	2.54	017	1.1150	-.65	596	1.2000	.04
357	0.6550	-.53	098	1.2200	1.43	560	1.2700	1.96	309	1.1135	-.78	Avg	1.1968	
693	0.6550	-.53	720	1.2050	1.21	353	1.2650	1.87	096	1.1500 R	-.84	731	1.1800	-.20
695	0.6550	-.53	208	1.2050	1.19	160	1.2578	1.86	037	1.0950	-.98	628	1.1750	-.27
045	0.6555	-.61	505	1.1750	.71	226	1.2350	1.39	100	1.0950	-.98	407	1.1700	-.33
021	0.6615	-.64	205	1.1700	.63	511	1.2250	1.20	003	1.0950	-1.01	511	1.1700	-.33
017	0.6500	-.70	307	1.1450	.24	610	1.2200	1.12	187	1.0900	-1.06	016	1.1750	-.40
407	0.6500	-.70	035	1.1350	.10	695	1.2150	1.06	029	1.0860	-1.15	849	1.0650	-1.61
298	0.6500	-.81	Avg	1.1307		520	1.2000	.78	106	1.0800	-1.27	539	1.0150	-2.22
100	0.6500	-.81	354	1.1250	-.12	572	1.1950	.70	553	1.0700	-1.39	679	0.9900	-2.52
187	0.6472	-.82	710	1.1250	-.12	202	1.1900	.70	598	1.0655	-1.59	588	0.9450 S	-3.07
168	0.6470	-.84	038	1.1300	-.16	148	1.1945	.69	154	1.0512	-1.71	297	0.7950 S	-4.90
199	0.6449	-.91	619	1.1250	-.26	668	1.1850	.68	144	1.0450	-1.81			

\* 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 033.01	--	--	Method 033.03	--	--	Method 034.04	--	--	Method 035.00	--	--	Method 035.03	--
650	1.3750 R	2.86	726	1.5500 S	1.92	563	0.4630	-.67	354	0.2150	-2.70	199	0.2522	-.05
202	1.3450	2.00	144	1.4500	1.32	171	0.4200 X	-1.78	650	0.1300 s	-7.83	100	0.2500	-.17
413	1.3200	1.34	190	1.2950	.44							520	0.2500	-.17
194	1.3050	.95	265	1.2500	.34	--	Method 034.05	--	--	Method 035.01	--	567	0.2500	-.17
307	1.3000	.85	Avg	1.2838		693	2.1750 s	24.12	686	0.2700	1.11	366	0.2500	-.17
098	1.2800 R	.84	505	1.1400	-.45	860	0.8990 S	5.05	Avg	0.2649		029	0.2508	-.19
354	1.2950	.69	598	0.9550 S	-1.50	016	0.6035	1.20	563	0.2598	-.51	553	0.2495	-.24
175	1.2950	.69	860	0.8415 S	-2.14	047	0.5350	.37				045	0.2470	-.39
096	1.2950	.69				560	0.5275	.06	--	Method 035.02	--	038	0.2460	-.48
039	1.2920	.60	--	Method 033.05	--	Avg	0.5231		638	0.2350	.71	572	0.2455	-.53
510	1.2850	.57	171	1.1900	.71	154	0.4265	-1.39				358	0.2450	-.64
242	1.2900	.55							--	Method 035.03	--	693	0.2450	-.64
610	1.2840	.44	--	Method 033.99	--	--	Method 034.99	--	003	0.3150 s	4.51	695	0.2450	-.64
629	1.2850	.43	681	1.6500 S	2.51	190	0.5770	1.18	242	0.2750	1.66	345	0.2450	-.64
042	1.2850	.43	706	1.5000	1.53	Avg	0.5090		413	0.2750	1.66	298	0.2500	-.74
019	1.2700	.26	673	1.3000	.22	096	0.5000	-.16	628	0.2750	1.66	300	0.2470	-.76
205	1.2700	.26	861	1.2950	.19	098	0.4500	-1.04	160	0.2726	1.60	309	0.2417	-.77
199	1.2750	.20	552	1.2700	.03				049	0.2700	1.45	208	0.2415	-.79
178	1.2750	.20	Avg	1.2658		--	Method 035.00	--	187	0.2718	1.39	021	0.2375	-1.10
559	1.2750	.20	619	1.2300	-.23	720	0.2800	1.23	598	0.2642 R	1.30	265	0.2350	-1.30
021	1.2700	.02	855	1.1250 R	-.92	037	0.2785	1.14	089	0.2700	1.26	035	0.2300	-1.61
Avg	1.2693		723	1.0000	-1.74	175	0.2750	.98	226	0.2650	.97	154	0.2283	-1.74
100	1.2650	-.17	003	0.7950 S	-3.08	675	0.2755	.96	098	0.2650	.97	144	0.2250	-2.00
229	1.2650	-.17	358	0.6250 S	-4.19	670	0.2725	.84	278	0.2650	.97	510	0.2125	-2.87
278	1.2600	-.25				263	0.2734	.83	425	0.2600	.54			
226	1.2600	-.25	--	Method 034.01	--	619	0.2645	.54	353	0.2600	.54	--	Method 035.05	--
029	1.2450	-.75	668	0.5285	1.25	710	0.2650	.44	610	0.2600	.54	169	0.3000	1.66
710	1.2400	-.82	038	0.5460	.67	142	0.2650	.44	297	0.2600	.54	590	0.2800	.89
164	1.2400	-.82	Avg	0.5232		208	0.2660	.39	668	0.2570	.44	108	0.2700	.63
590	1.2300	-1.07	638	0.4950	-.69	152	0.2615	.15	083	0.2550	.40	665	0.2700	.63
674	1.2100	-1.58				233	0.2600	.02	229	0.2550	.40	294	0.2650	.36
011	1.2035	-1.80	--	Method 034.04	--	Avg	0.2596		017	0.2550	.40	560	0.2640	.26
425	1.1500	-3.14	610	0.7000 s	4.31	307	0.2550	-.41	164	0.2550	.40	536	0.2610	.21
686	1.0700 s	-5.28	164	0.5400	.97	035	0.2500	-.58	096	0.2550	.40	588	0.2615	.17
106	1.0450 s	-5.91	572	0.5380	.92	205	0.2480	-.72	202	0.2550	.40	Avg	0.2572	
			208	0.5325	.84	658	0.2439	-.94	011	0.2558	.27	171	0.2510	-.24
			169	0.5000	.24	038	0.2435	-.97	148	0.2555	.22	731	0.2400	-.67
			Avg	0.4948		305	0.2400	-1.18	407	0.2545	.18	106	0.2190	-1.49
			026	0.4700	-.56	656	0.2300 R	-1.88	Avg	0.2524		716	0.2045	-2.04

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 035.99	--	--	Method 037.01	--	--	Method 037.03	--	--	Method 037.05	--	--	Method 038.00	--
692	0.2550	1.10	354	313.85 s	4.10	011	269.56	.67	021	272.50	.25	668	2.7150	-.48
065	0.2504	.11	716	279.50	1.67	029	265.57	.67	560	270.00	.08	154	2.5000	-.66
Avg	0.2501		178	276.50 R	1.66	511	269.00	.65	Avg	268.83		106	1.6850	-2.26
613	0.2450	-1.13	035	278.50	1.39	229	265.00	.41	187	268.39	-.05			
--	Method 036.00	--	014	277.00	1.30	083	265.00	.39	202	268.00	-.06	--	Method 038.99	--
297	0.2300	.00	013	273.00	1.02	598	263.00	.27	345	268.31	-.07	164	3.5000	.96
307	0.3100 S	.00	536	271.63	.88	407	262.50	.24	357	267.00	-.12	Avg	3.2450	
Avg	0.2300		669	269.88	.76	049	260.43	.23	294	266.49	-.26	353	2.9900	-.76
			504	268.50	.68	510	262.00	.21	199	264.35	-.32			
			038	266.00	.63	Avg	258.64		045	264.50	-.52	--	Method 039.01	--
--	Method 036.03	--	307	261.50	.58	610	257.50	-.08	572	261.00	-.53	164	2.6000	.71
154	0.2778 s	4.64	590	267.00	.51	358	256.87	-.27	693	260.09	-.66			
278	0.2400 R	1.82	619	263.50	.42	512	257.30	-.41	190	257.19	-.78	--	Method 039.02	--
560	0.2370	1.45	720	263.51	.33	148	249.40	-.57	096	260.00	-.89	021	4.4050	1.69
021	0.2345	1.27	563	264.13	.30	144	246.80	-.74	154	251.00	-1.20	154	3.4000	.31
708	0.2335	1.20	505	261.00	.09	242	253.00 R	-.76	032	250.50	-1.38	Avg	3.1732	
160	0.2322	1.18	208	261.00	.09	003	245.50	-.81	668	244.20	-1.69	011	2.9010	-.38
187	0.2294	.89	Avg	260.31		026	242.00	-1.03	037	243.00	-1.72	560	2.5950	-.79
366	0.2250	.67	350	258.70	-.12	208	241.50	-1.05	309	244.15	-1.75	668	2.5650	-.88
038	0.2190	.25	689	257.60	-.25	164	237.00	-1.39	169	217.50 s	-3.42			
202	0.2200	.20	674	255.71	-.64	300	234.35	-1.50				--	Method 040.00	--
169	0.2200	.20	731	252.00	-.64	425	231.85	-1.64	--	Method 037.99	--	560	8.0900	.71
353	0.2200	.20	588	250.50	-.80	171	213.50	-2.77	613	288.50	1.10			
171	0.2195	.19	032	249.21	-.85	695	192.00 s	-4.09	846	272.58	.25	--	Method 041.00	--
Avg	0.2173		175	251.00	-.99				Avg	271.59		011	0.7190	-.71
345	0.2150	-.41	710	236.50	-1.83	--	Method 037.05	--	692	253.70	-1.11			
357	0.2150	-.41	305	235.82	-1.88	628	327.50 s	3.91				--	Method 054.01	--
294	0.2100	-.54	675	235.07	-1.93	017	304.00	2.36	--	Method 038.00	--	038	7.3750	1.67
045	0.2100	-.54				035	293.00	1.61	278	3.8950	2.08	028	6.7250 R	1.50
693	0.2050	-.98	--	Method 037.03	--	278	284.53	1.11	096	3.5000 R	1.63	027	7.0600	.77
309	0.1984	-1.41	098	287.00	1.78	027	282.61	.93	297	3.1500	.68	218	6.8435	.38
300	0.1945	-1.68	226	276.50	1.12	353	276.10	.91	029	3.0300	.53	003	6.8000	.25
106	0.1915	-1.94	520	274.00	.99	106	282.00	.88	011	2.9150	.50	036	6.7450	.14
265	0.1600 S	-4.22	629	273.50	.92	038	281.00	.88	510	2.9500	.37	047	6.7050	.07
			074	273.00	.90	366	280.00	.84	038	2.9000	.23	Avg	6.6754	
--	Method 036.04	--	297	271.00	.76	160	279.20	.72	560	2.8700	.13	016	6.5200	-.32
226	0.2250	.87	265	270.50	.73	413	277.50	.65	Avg	2.8363		010	6.3950	-.60
Avg	0.2200		100	270.00	.70	726	275.33	.43	693	2.8100	-.16	001	5.6350	-2.11
510	0.2150	-.87	553	268.00	.68	567	269.00	.40	208	2.6150	-.44			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 101.99 --			-- Method 108.01 --			-- Method 120.00 --			-- Method 122.00 --			-- Method 125.00 --		
644 469.50	.71		096 0.3750	.71		160 0.8847	-1.30		160 1.6267	-2.17		848 3.2850	-1.33	
						848 0.8400	-2.01					160 3.1705	-1.93	
-- Method 104.00 --			-- Method 108.02 --			-- Method 120.05 --			-- Method 122.05 --			-- Method 125.05 --		
171 2.9000	-.71		169 5.1000	1.10		626 1.0550	.58		038 2.2105	1.20		626 3.8050	.20	
			675 4.3100	.75		Avg 2.6525			Avg 2.1878			Avg 3.8015		
-- Method 105.00 --			Avg 2.6525			208 0.8010	-.83		626 2.1650	-.26		038 3.7980	-1.21	
160 2.2800	-.71		858 0.3992	-1.01		038 1.0000	-1.08		-- Method 124.00 --					
									160 0.3540	1.55		-- Method 126.00 --		
-- Method 106.00 --			-- Method 109.02 --			-- Method 121.00 --			652 0.3500 R	1.46		227 0.9700	1.44	
171 6.2000 X	.71		199 70.050	1.49		227 1.4600	1.39		684 0.3500	1.07		652 0.9100	.59	
			638 66.835	1.16		652 1.3800 R	.62		619 0.3465	.89		504 0.9050	.49	
-- Method 106.01 --			563 64.456	.91		571 1.3750	.47		571 0.3430	.74		675 0.9033	.40	
858 4.2205	.71		676 62.445	.70		504 1.3700	.47		Avg 0.3292			571 0.9015	.38	
			169 61.200	.57		644 1.3690	.41		675 0.3236	-.29		350 0.8985	.36	
-- Method 106.02 --			227 58.300 R	.40		675 1.3670	.38		350 0.3175	-.60		684 0.8915	.22	
670 6.4350 s	3.32		644 55.800	.07		619 1.3500	.20		644 0.3130	-.82		619 0.8870	.15	
016 4.5850 R	2.01		Avg 55.680			Avg 1.3321			504 0.3100	-.97		Avg 0.8773		
676 4.6050	1.39		610 55.150	-.15		684 1.3215	-.15		848 0.3050	-1.25		644 0.8740	-.05	
849 4.2200	.98		858 53.200	-.26		350 1.2460	-.94		-- Method 124.02 --			848 0.7650	-1.74	
563 4.1686	.93		675 52.275	-.35		848 1.1300	-2.20		227 0.3150	.71		160 0.7447	-2.07	
560 3.8950	.65		560 46.350	-.97		160 1.0030 s	-3.60		-- Method 124.05 --			-- Method 126.05 --		
208 3.8200	.59		619 40.900	-1.53		-- Method 121.05 --			610 0.3500	.84		626 0.9550	.84	
227 3.7100	.57		208 39.495	-1.68		626 1.3800	.33		Avg 0.3173			Avg 0.8918		
638 3.7550	.51		-- Method 109.99 --			Avg 1.3703			038 0.2845	-.89		038 0.8285	-.89	
610 3.6000	.36		096 62.000	.71		038 1.3605	-1.18		-- Method 122.00 --			-- Method 127.00 --		
021 3.4850	.35					-- Method 122.00 --			227 2.2300	1.21		652 0.5650	1.44	
Avg 3.2571			-- Method 120.00 --			227 2.2300	1.21		-- Method 125.00 --			227 0.5600	.97	
169 2.9800	-.28		227 1.0700	1.70		652 2.1250	.65		227 3.8800	1.72		684 0.5590	.96	
160 2.7600	-.51		684 1.0320	1.14		504 2.0900	.45		684 3.8275 R	1.63		504 0.5500	.69	
619 2.6450	-.63		504 0.9950	.54		675 2.0929	.44		571 3.5900	.23		160 0.5420	.65	
199 2.5500	-.72		571 0.9835	.35		644 2.0910	.43		675 3.5874	.22		Avg 0.5406		
675 1.5750	-1.72		652 0.9650	.24		571 2.0850	.40		644 3.5765	.16		644 0.5325	-.41	
860 1.0880	-2.21		619 0.9710	.11		684 2.0705	.34		619 3.5650	.10		571 0.5380	-.47	
			675 0.9668	.08		619 2.0400	.15		350 3.5640	.10		675 0.5284	-.62	
-- Method 106.99 --			Avg 0.9647			Avg 2.0148			Avg 3.5453			619 0.5275	-.68	
096 2.5350	1.21		644 0.9540	-.18		350 2.0065	-.11		504 3.5400	-.26		350 0.5035	-1.86	
Avg 1.9117			350 0.9500	-.24		848 1.7050	-1.73							
003 1.8000	-.29													
644 1.4000	-.97													

\* 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 127.00	--	--	Method 129.05	--	--	Method 131.01	--	--	Method 133.00	--	--	Method 135.00	--
848	0.4350 s	-5.30	626	1.6150	.19	171	0.6100 S	.00	504	1.0800	-.42	848	0.6650	-1.69
			Avg	1.6068					160	1.0406	-.80	160	0.6583	-1.84
--	Method 127.05	--	038	1.5985	-1.21	--	Method 131.02	--	848	0.8900	-2.22	--	Method 135.05	--
626	0.5750	.86				227	0.3200	.71				626	0.8200	.99
Avg	0.5220		--	Method 130.00	--				--	Method 133.05	--	610	0.7800	.05
038	0.4690	-.87	504	1.1500	1.30	--	Method 131.05	--	626	1.3050	.82	Avg	0.7778	
			227	1.1450	1.20	038	0.3575	1.06	Avg	1.2139		038	0.7335	-1.23
--	Method 128.00	--	652	1.0950 R	.69	610	0.3100	.20	038	1.1228	-.91			
227	0.8800	1.33	571	1.1000	.44	Avg	0.2975		--	Method 134.00	--	--	Method 136.00	--
684	0.8555	.95	684	1.0770	.40	626	0.2250	-1.16	227	1.0600	1.73	684	0.2925	.71
504	0.8250 R	.72	644	1.0960	.34				684	1.0140 R	1.35			
571	0.8355	.55	675	1.0930	.29	--	Method 132.00	--	652	0.9900	.90	--	Method 136.01	--
619	0.8315	.47	619	1.0800	.06	227	1.0300	1.97	619	0.9700	.54	227	0.2900	1.31
675	0.8201	.26	Avg	1.0768		350	0.9895	.73	571	0.9655	.50	160	0.2865	.94
644	0.8135	.14	350	1.0735	-.06	652	0.9750	.54	675	0.9594	.40	Avg	0.2777	
Avg	0.8057		160	1.0757	-.11	619	0.9785	.40	Avg	0.9293		644	0.2730	-.50
350	0.7970	-.16	171	1.0050 X	-1.34	571	0.9685	.14	350	0.9250	-.06	571	0.2715	-.68
652	0.8050	-.27	848	0.9500	-2.23	Avg	0.9653		644	0.9145	-.21	619	0.2675	-1.09
160	0.7239	-1.47				644	0.9595	-.18	504	0.8700	-.80			
848	0.6950	-1.99	--	Method 130.05	--	684	0.9460	-.60	160	0.8340	-1.26	--	Method 136.99	--
			626	1.2300	.93	504	0.9600	-.62	848	0.8050	-1.65	504	0.2650	.71
--	Method 128.05	--	038	1.1655	.86	675	0.9219	-1.31						
626	0.9050	.75	Avg	1.1635		160	0.9239	-1.45	--	Method 134.05	--	--	Method 137.00	--
Avg	0.8720		610	1.0950	-.95	848	0.7750 s	-5.74	626	1.0450	.91	160	0.6847	1.59
038	0.8390	-.97							Avg	0.9810		684	0.6720	1.03
			--	Method 131.00	--	--	Method 132.05	--	038	0.9170	-.82	644	0.6535	.04
--	Method 129.00	--	652	0.3100 R	1.29	626	0.9850	.75	--	Method 135.00	--	675	0.6479	-.33
227	1.6950	1.57	644	0.3120	1.14	Avg	0.9458		652	0.8300	1.42	504	0.6500	-.51
652	1.6250 R	.93	504	0.3100	.97	038	0.9065	-.97	227	0.8300	1.38	350	0.6315	-1.12
504	1.6150	.74	619	0.3045	.52				684	0.7705	.44	227	0.6300	-1.13
684	1.6165	.70	684	0.3040	.47	--	Method 133.00	--	644	0.7700	.26	848	0.5500 s	-5.10
571	1.5900	.41	571	0.2995	.23	227	1.2500	1.21	571	0.7670	.23			
644	1.5665	.15	Avg	0.2986		652	1.2150	.87	675	0.7589	.09	--	Method 137.05	--
619	1.5550	.06	350	0.2910	-.65	684	1.1755 R	.58	504	0.7600	.07	626	0.4550	.71
Avg	1.5527		675	0.2909	-.72	675	1.1755	.50	Avg	0.7560				
350	1.5455	-.09	160	0.2766	-1.94	644	1.1595	.34	619	0.7560	-.06			
675	1.5404	-.14	848	0.2350 s	-5.41	571	1.1550	.30	350	0.7505	-.11			
160	1.4280	-1.40				619	1.1450	.25						
848	1.3750	-1.95				Avg	1.1234							

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
--	Method 138.00	--												
227	1.0200	1.06												
619	0.9895	.72												
504	0.9650 R	.67												
675	0.9796	.60												
571	0.9745	.54												
350	0.9730	.52												
684	0.9670	.48												
644	0.9640	.42												
Avg	0.9273													
652	0.8350	-1.07												
848	0.8000	-1.46												
160	0.7702	-1.80												
--	Method 138.05	--												
626	1.0150	.73												
Avg	0.9808													
038	0.9465	-.98												
--	Method 139.00	--												
504	0.0400	.71												

\* 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	0.1591	1.12	0.11	010.03	5	-3.3081	3.11	0.36
001.03	4	0.0000	1.07	0.16	010.11	10	0.3580	1.34	0.74
001.07	37	-0.1015	1.23	0.24	010.99	15	-0.2523	1.38	0.14
001.99	18	-0.7401	2.46	0.32	011.01	83	3.1522	30.21	0.37
002.00	6	0.0000	1.03	0.18	012.00	8	-0.0804	0.98	0.37
002.01	10	0.0000	0.91	0.45	012.01	3	0.0000	1.09	0.21
002.02	8	0.0000	1.02	0.19	012.03	2	0.0000	0.33	0.83
002.04	6	-1.4573	2.50	0.32	012.04	6	0.0000	1.04	0.13
002.05	19	0.0000	1.00	0.15	012.11	5	0.0000	1.05	0.15
002.06	128	0.0201	1.13	0.58	013.02	31	0.2147	1.22	0.20
002.08	5	0.0000	1.06	0.09	013.10	17	-0.1026	1.01	0.48
002.10	11	0.2760	1.32	0.36	013.12	3	0.0000	1.12	0.01
002.11	15	-0.2245	1.31	0.11	013.99	5	0.0000	1.06	0.05
002.99	7	0.0785	0.98	0.36	015.00	11	0.5163	1.63	0.43
003.00	25	-0.1078	1.09	0.34	017.00	8	0.0021	0.94	0.32
003.06	25	0.1631	1.15	0.30	017.99	2	0.0000	0.19	0.86
003.09	25	-0.0668	0.99	0.38	018.02	2	0.0000	0.86	0.62
003.10	29	-0.0157	1.00	0.23	019.00	16	0.0350	0.99	0.21
003.11	15	0.8495	2.39	0.15	019.01	43	0.0220	0.96	0.37
003.12	4	0.0000	1.08	0.07	019.03	5	0.0000	1.03	0.24
003.13	6	1.0697	2.76	1.19	019.05	37	0.0998	1.12	0.31
003.14	16	-0.0930	1.01	0.65	019.08	6	0.0000	1.04	0.15
003.99	13	0.1139	1.85	0.60	019.09	32	0.1486	1.33	0.43
004.00	33	-0.0313	1.00	0.19	019.99	5	-0.2767	4.03	0.27
004.01	2	0.0000	1.21	0.12	020.00	2	0.0000	1.22	0.04
004.03	3	0.0000	1.11	0.11	020.01	8	0.0749	0.97	0.31
004.06	33	0.0385	0.98	0.27	021.01	4	-1.1112	2.40	0.08
004.07	39	0.1540	1.75	0.36	021.02	16	0.6991	2.96	0.31
004.11	13	-0.1048	1.04	0.26	022.01	26	14.1107	69.70	69.90
004.99	5	0.0000	1.04	0.20	022.03	28	0.4363	1.86	0.62
005.00	130	0.0487	1.06	0.20	022.05	29	-0.0312	0.99	0.23
005.11	10	0.7544	2.86	0.23	022.99	3	0.0000	1.10	0.18
005.99	15	0.0452	0.97	0.35	025.01	24	-0.0704	1.94	0.41
008.02	16	0.0000	0.96	0.33	025.03	32	0.0000	0.99	0.16
008.08	22	0.0790	1.01	0.46	025.05	28	-0.0557	1.15	0.40
008.99	5	0.6619	1.73	0.27	025.99	2	0.0000	0.39	0.82
009.07	12	0.0297	0.98	0.18	027.01	24	0.0823	1.24	0.44
009.09	19	-0.0403	0.96	0.24	027.03	32	75.8214	427.62	8.82
009.99	7	0.5651	1.77	0.16	027.05	26	0.1274	1.21	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
027.99	3	21.9213	37.97	0.99	054.01	10	0.0100	0.92	0.56
028.01	28	0.7421	2.92	0.39	106.02	17	0.2706	1.26	0.42
028.03	32	-0.1290	1.14	0.28	106.99	3	0.0000	1.09	0.18
028.05	31	-0.1250	1.47	0.58	108.02	4	0.0000	1.08	0.05
028.99	3	0.0000	0.98	0.44	109.02	13	0.0209	0.98	0.10
031.00	2	0.0000	1.20	0.19	120.00	11	0.0000	1.01	0.17
031.01	53	-0.0570	1.41	0.34	120.05	2	0.0000	0.81	0.65
031.02	5	0.0000	0.78	0.64	121.00	11	-0.2786	1.44	0.17
031.03	8	-0.2205	1.12	0.48	121.05	2	0.0000	0.32	0.84
031.05	64	0.0316	1.15	0.38	122.00	11	0.0000	1.02	0.10
031.06	2	-2.4749	3.50	0.56	122.05	2	0.0000	0.31	0.84
031.99	7	0.0000	1.00	0.27	124.00	10	0.1054	0.97	0.45
032.01	20	-0.0881	1.05	0.48	124.05	2	0.0000	1.19	0.21
032.02	9	0.0000	0.97	0.33	125.00	11	0.1314	1.05	0.29
032.05	54	0.0853	1.22	0.41	125.05	2	0.0000	0.03	0.87
032.99	5	-5.6716	8.84	0.68	126.00	11	0.0000	1.01	0.15
033.00	25	-0.2660	1.51	0.28	126.05	2	0.0000	1.19	0.21
033.01	34	-0.2381	1.71	0.28	127.00	11	-0.4810	1.83	0.38
033.03	7	-0.0361	1.44	0.20	127.05	2	0.0000	1.18	0.24
033.99	10	-0.5671	2.01	0.07	128.00	11	0.0315	0.97	0.24
034.01	3	0.0000	0.63	0.76	128.05	2	0.0000	1.05	0.45
034.04	8	0.5389	1.77	0.35	129.00	11	0.0721	0.99	0.20
034.05	6	4.5396	8.91	3.88	129.05	2	0.0000	0.22	0.85
034.99	3	0.0000	1.11	0.10	130.00	12	0.0267	0.96	0.26
035.00	21	-0.4564	1.97	0.27	130.05	3	0.0000	0.93	0.51
035.01	2	0.0000	0.72	0.70	131.00	10	-0.4422	1.98	0.37
035.03	50	0.1068	1.14	0.34	131.05	3	0.0000	1.07	0.27
035.05	12	0.0000	1.00	0.18	132.00	11	-0.5214	1.95	0.34
035.99	3	0.0000	0.79	0.65	132.05	2	0.0000	1.05	0.44
036.00	2	0.0000	0.00	0.00	133.00	10	0.0496	0.98	0.12
036.03	22	0.0861	1.66	0.39	133.05	2	0.0000	1.16	0.28
036.04	2	0.0000	0.87	0.61	134.00	11	0.1019	1.02	0.27
037.01	27	0.1977	1.23	0.37	134.05	2	0.0000	1.05	0.44
037.03	32	-0.1385	1.20	0.24	135.00	11	0.0000	1.00	0.20
037.05	32	0.0153	1.31	0.32	135.05	3	0.0000	0.99	0.42
037.99	3	0.0000	1.01	0.38	136.01	5	0.0000	1.06	0.08
038.00	13	0.1000	1.01	0.37	137.00	8	-0.6372	2.02	0.28
038.99	2	0.0000	1.07	0.43	138.00	11	0.0393	0.98	0.18
039.02	5	0.0000	1.04	0.19	138.05	2	0.0000	1.02	0.48