

Feed Check Sample No. - 200833 Corn Dried Distillers Grains (DDG)  
 Association of American Feed Control Officials

- Pass 1 Results for 195 Labs - - Pass 2 Results for 194 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	27.0950	0.28991	0.41000	1	27.0950	0.28991	0.41000
Loss on Drying, Vac 95 deg 5 hr .....	934.01	001.00	7	9.44010	0.89802	0.40237	6	9.49678	0.88389	0.16943
Loss on Drying, ISO 6496 .....		001.03	4	8.39000	0.38068	0.09000	4	8.39000	0.38068	0.09000
Loss on Drying, LECO .....		001.05	1	7.94000	0.00000	0.00000	1	7.94000	0.00000	0.00000
Loss on Drying, 104 deg 3 hr, in malt ..	935.29	001.07	38	8.75563	0.76650	0.19911	35	8.80969	0.73526	0.14560
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	8.37000	0.80610	1.14000	1	8.37000	0.80610	1.14000
Loss on Drying, Misc .....		001.99	12	8.50708	0.66968	0.23200	12	8.50708	0.66968	0.23200
Method Group 001.XX PCT			63	8.74206	0.78609	0.23280	59	8.76737	0.76703	0.17621
Protein, Crude .....	954.01	002.00	4	26.5138	0.48068	0.13750	3	26.6583	0.44942	0.03000
Protein, Auto Kjel-Foss .....	976.05	002.01	12	26.4839	0.22102	0.05942	11	26.4824	0.22918	0.04664
Protein, Semiauto Autoanalyzer .....	976.06	002.02	8	26.4018	0.55901	0.33888	8	26.4018	0.55901	0.33888
Protein, Hach Method .....		002.03	1	26.2550	0.70004	0.99000	1	26.2550	0.70004	0.99000
Protein, Copper Cat .....	984.13	002.04	4	26.1988	0.38297	0.12250	4	26.1988	0.38297	0.12250
Protein, Copper, Boric Acid .....		002.05	17	26.3967	0.30078	0.21159	16	26.3878	0.25156	0.13731
Protein, Combustion Nitrogen Analyzer	990.03	002.06	119	26.8823	0.36860	0.15984	115	26.8792	0.35827	0.13748
Protein, Cu/Ti .....	988.05	002.08	3	26.3900	0.07589	0.05333	3	26.3900	0.07589	0.05333
Protein, Block dig/distillation .....		002.10	7	26.4824	0.53961	0.30957	6	26.5767	0.38320	0.08000
Protein, NIR .....		002.11	6	25.9662	0.65853	0.15100	9	25.6269	0.73051	0.15067
Protein, Misc .....		002.99	4	26.5616	0.31386	0.19822	3	26.5488	0.30588	0.04430
Method Group 002.XX PCT			185	26.7052	0.45833	0.17350	176	26.7098	0.44423	0.13909
Fat, Eth Ext, Direct .....	920.39	003.00	24	9.84610	0.77192	0.21452	24	9.92860	0.85712	0.19286
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	9.83500	0.19092	0.27000	1	9.83500	0.19092	0.27000
Fat, Pet Ether .....		003.06	23	9.51717	0.28286	0.08304	22	9.53114	0.27945	0.07318
Fat, Soxtec, Eth Ext .....		003.09	25	10.3337	0.80917	0.11786	24	10.2877	0.79134	0.10352
Fat, Soxtec, Pet Ether .....		003.10	25	9.33139	0.12706	0.08168	24	9.33479	0.12482	0.07258
Fat, NIR .....		003.11	11	9.35969	0.59355	0.04445	10	9.37566	0.62079	0.02890
Fat, Hexane Ext. ....		003.12	3	9.65333	0.23287	0.18000	3	9.65333	0.23287	0.18000
Fat, Soxtec, Hexane Ext. ....		003.13	5	9.49230	0.24236	0.16780	5	9.49230	0.24236	0.16780
Fat, Ankom .....		003.14	11	9.81773	0.35948	0.12000	10	9.74950	0.29106	0.09200
Fat, Misc .....		003.99	10	9.79766	0.57313	0.37353	9	9.84852	0.50273	0.22392
Method Group 003.XX PCT			138	9.72474	0.64515	0.13942	131	9.71993	0.62923	0.11396
Fiber, Crude Asbestos Free .....	962.09	004.00	24	6.51217	0.54945	0.14626	22	6.47078	0.44777	0.12092
Fiber, Sing Filt .....		004.01	1	7.69000	0.04243	0.06000	1	7.69000	0.04243	0.06000
Fiber, Fritted Glass .....	978.10	004.03	3	6.12500	0.64553	0.06333	3	6.12500	0.64553	0.06333
Fiber, Fibertec .....		004.06	28	6.63920	0.59603	0.14779	25	6.61110	0.61690	0.09593
Fiber, ANKOM .....		004.07	35	6.46399	0.73644	0.19740	33	6.45256	0.74808	0.15512
Fiber, NIR .....		004.11	10	7.14357	0.79830	0.14264	9	7.21508	0.80469	0.09182
Fiber, Misc .....		004.99	6	6.48967	1.20172	0.11000	5	5.98660	0.26182	0.05000
Method Group 004.XX PCT			107	6.58755	0.72750	0.15789	98	6.54595	0.69156	0.11739

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Ash, .....	942.05	005.00	96	4.43379	0.09780	0.05056	90	4.43104	0.08619	0.04038
Ash, LECO .....		005.02	1	4.40000	0.00000	0.00000	1	4.40000	0.00000	0.00000
Ash, Misc .....		005.99	11	4.45825	0.06984	0.04805	10	4.45907	0.06862	0.03686
Method Group 005.XX PCT			108	4.43596	0.09508	0.04984	101	4.43351	0.08451	0.03963
Sugar, TSI, Lane-Eynon (12th) .....	923.09	006.05	1	3.54000	0.01414	0.02000	1	3.54000	0.01414	0.02000
Fiber, Acid Detergent .....	973.18	008.02	14	15.3507	2.48228	0.59143	14	15.3507	2.48228	0.59143
Fiber, Acid Detergent-Hach .....		008.05	1	16.8000	0.14142	0.20000	1	16.8000	0.14142	0.20000
Fiber, Acid Detergent by ANKOM .....		008.08	16	16.6141	3.20285	0.72312	15	16.4203	3.19949	0.60467
Fiber, Acid Detergent Misc .....		008.99	3	16.8900	2.42064	1.52667	3	16.8900	2.42064	1.52667
Method Group 008.XX PCT			34	16.1237	2.84566	0.72441	33	16.0208	2.81659	0.67061
Fiber, Neutral Det-ENZ Pretreat .....		009.07	11	32.8514	4.57152	1.07182	11	32.8514	4.57152	1.07182
Fiber, Neutral Detergent by ANKOM .....		009.09	11	31.5845	2.05509	0.52545	11	31.5845	2.05509	0.52545
Fiber, Neutral Det Misc .....		009.99	3	32.2900	3.41324	3.88000	3	32.2900	3.41324	3.88000
Method Group 009.XX PCT			25	32.2266	3.50946	1.16840	25	32.2266	3.50946	1.16840
Moisture, Karl-Fischer .....	966.20	010.03	4	6.85623	0.66006	0.21310	4	6.85623	0.66006	0.21310
Moisture, NIR .....		010.11	9	8.40388	0.67351	0.19916	8	8.27311	0.57759	0.13655
Moisture, Misc .....		010.99	12	9.11167	1.41243	0.14743	12	9.11167	1.41243	0.14743
Method Group 010.XX PCT			25	8.49599	1.33559	0.17656	24	8.45624	1.34690	0.15475
Loss on Drying, 135 deg 2 hr .....	930.15	011.01	69	11.2553	1.12537	0.18322	63	11.2239	1.11887	0.12258
Loss on Drying, High Temp Methods, Misc .....		011.99	2	9.88250	0.16256	0.09500	2	9.88250	0.16256	0.09500
Method Group 011.XX PCT			71	11.2166	1.13271	0.18074	65	11.1826	1.12594	0.12173
Starch, Polarimetric (Ewers) .....		012.00	6	3.47333	1.28271	0.23333	6	3.47333	1.28271	0.23333
Starch, Megazyme .....		012.01	1	2.95500	0.00707	0.01000	1	2.95500	0.00707	0.01000
Starch, Enzymatic .....		012.03	1	3.85000	0.11314	0.16000	1	3.85000	0.11314	0.16000
Starch, YSI Analyzer .....		012.04	5	3.30400	0.87722	0.03600	5	3.30400	0.87722	0.03600
Starch, NIR .....		012.11	6	8.53833	1.03999	0.16333	6	8.53833	1.03999	0.16333
Method Group 012.XX PCT			19	5.02079	2.62471	0.14368	19	5.02079	2.62471	0.14368
Fat, Mojonnier, Bak Ext .....	954.02	013.02	36	11.1157	0.76742	0.14364	35	11.1256	0.77501	0.13346
Fat, Roese-Gottlieb .....	932.02	013.03	1	10.7750	0.07778	0.11000	1	10.7750	0.07778	0.11000
Fat, Roese-Gottlieb Modified .....		013.08	1	10.3900	0.21213	0.30000	1	10.3900	0.21213	0.30000
Fat, Soxtec-Acid Hydrolysis .....		013.10	17	10.9707	0.97717	0.22365	17	10.9707	0.97717	0.22365
Fat, Super Critical Fluid Extraction ..		013.11	1	11.3695	0.14637	0.20700	1	11.3695	0.14637	0.20700
Fat, Ankon-Acid Hydrolysis .....		013.13	2	12.2650	0.10344	0.11000	2	12.2650	0.10344	0.11000
Fat, Pretreat or extended ext, misc ...		013.99	3	12.0574	0.66724	0.48810	3	12.0574	0.66724	0.48810
Method Group 013.XX PCT			61	11.1460	0.85414	0.18482	60	11.1522	0.85928	0.17957
Aluminum, ICP .....		015.00	7	26.3557	7.01480	1.80286	7	26.3557	7.01480	1.80286
Method Group 015.XX PPM			7	26.3557	7.01480	1.80286	7	26.3557	7.01480	1.80286
Boron, ICP .....		017.00	4	4.60375	0.54000	0.31750	4	4.60375	0.54000	0.31750
Boron, Misc .....		017.99	2	4.79750	0.94729	0.55500	2	4.79750	0.94729	0.55500

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Method Group 017.XX PPM			6	4.66833	0.66287	0.39667	6	4.66833	0.66287	0.39667
Calcium, Ox-Mn04 Vol .....	927.02	019.00	2	0.22585	0.04268	0.02000	2	0.22585	0.04268	0.02000
Calcium, At Abs Spect .....	968.08	019.01	23	0.19724	0.02121	0.00924	22	0.19871	0.01978	0.00739
Calcium, Semiauto (Autoanalyzer) .....		019.03	1	0.20500	0.02121	0.03000	1	0.20500	0.02121	0.03000
Calcium, ICP, Dry Ash.....		019.05	19	0.18354	0.01282	0.00573	19	0.18354	0.01282	0.00573
Calcium, EDTA .....		019.08	2	0.25000	0.03559	0.01000	2	0.25000	0.03559	0.01000
Calcium, ICP, Wet Ash .....		019.09	11	0.18776	0.01896	0.00610	10	0.18821	0.01914	0.00341
Calcium, Misc .....		019.99	1	0.17500	0.00707	0.01000	1	0.17500	0.00707	0.01000
Method Group 019.XX PCT			59	0.19357	0.02387	0.00828	57	0.19426	0.02361	0.00711
Chromium, ICP .....		020.01	5	1.18630	0.37075	0.11820	4	1.23288	0.39104	0.04775
Chromium, Misc .....		020.99	1	0.92500	0.07778	0.11000	1	0.92500	0.07778	0.11000
Method Group 020.XX PPM			6	1.14275	0.35123	0.11683	5	1.17130	0.36939	0.06020
Cobalt, ICP .....		021.02	5	0.27000	0.24860	0.04400	5	0.27000	0.24860	0.04400
Cobalt, Misc .....		021.99	1	1.15000	0.53740	0.76000	1	1.15000	0.53740	0.76000
Method Group 021.XX PPM			6	0.41667	0.44063	0.16333	6	0.41667	0.44063	0.16333
Copper, AA .....	968.08	022.01	11	29.1559	1.74024	1.12455	11	29.1559	1.74024	1.12455
Copper, ICP, Dry Ash .....	968.08	022.03	15	29.4591	2.44203	1.59613	14	29.5276	2.32913	1.21014
Copper, ICP, Wet Ash .....	968.08	022.05	11	30.4361	1.52233	0.91982	10	30.5707	1.39692	0.62180
Copper, Misc .....		022.99	1	30.2650	2.32638	3.29000	1	30.2650	2.32638	3.29000
Method Group 022.XX PPM			38	29.6753	2.03760	1.30842	36	29.7242	1.97042	1.07834
Iron, AA .....	968.08	025.01	11	143.046	14.6844	4.98756	11	139.521	17.1763	3.08302
Iron, ICP, Dry Ash .....	968.08	025.03	13	148.730	7.34784	3.71654	12	149.096	7.23025	2.81542
Iron, ICP, Wet Ash .....	968.08	025.05	12	150.003	13.8946	6.56350	12	150.003	13.8946	6.56350
Iron, Misc .....		025.99	1	148.350	0.77782	1.10000	1	148.350	0.77782	1.10000
Method Group 025.XX PPM			37	147.443	12.2454	4.94703	35	147.501	12.3936	4.21458
Lead, Misc .....		026.99	1	0.26100	0.04243	0.06000	1	0.26100	0.04243	0.06000
Magnesium, AA .....	968.08	027.01	13	0.30046	0.01295	0.00930	13	0.30046	0.01295	0.00930
Magnesium, ICP, Dry Ash .....	968.08	027.03	17	0.31150	0.02002	0.00624	16	0.31222	0.01979	0.00413
Magnesium, ICP, Wet Ash .....	968.08	027.05	11	0.30325	0.02088	0.01280	10	0.30315	0.01992	0.00839
Magnesium, Misc. ....		027.99	1	0.30500	0.00707	0.01000	1	0.30500	0.00707	0.01000
Method Group 027.XX PCT			42	0.30577	0.01857	0.00899	40	0.30595	0.01818	0.00702
Manganese, AA .....	968.08	028.01	8	28.4359	2.27615	0.93018	8	28.4359	2.27615	0.93018
Manganese, ICP, Dry Ash .....	968.08	028.03	14	29.4662	2.14402	0.94736	14	29.4662	2.14402	0.94736
Manganese, ICP, Wet Ash .....	968.08	028.05	11	29.0888	2.13755	1.23000	11	29.0888	2.13755	1.23000
Manganese, Misc. ....		028.99	1	28.7350	0.58690	0.83000	1	28.7350	0.58690	0.83000
Method Group 028.XX PPM			34	29.0802	2.14816	1.03131	34	29.0802	2.14816	1.03131
Phosphorus, Photometric .....	965.17	031.01	22	0.82695	0.02035	0.01194	21	0.82769	0.02009	0.01065
Phosphorus, Autoanalyzer .....		031.03	3	0.81033	0.05031	0.02133	3	0.81033	0.05031	0.02133
Phosphorus, ICP .....		031.05	29	0.81866	0.04079	0.02132	27	0.81906	0.03889	0.01612

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Phosphorus, Misc .....		031.99	4	0.82375	0.02875	0.02750	4	0.82375	0.02875	0.02750
Method Group 031.XX PCT			58	0.82172	0.03409	0.01819	55	0.82222	0.03288	0.01514
Potassium, AA .....	975.03	032.01	13	1.07497	0.03672	0.02433	12	1.07122	0.03370	0.01969
Potassium, Flame Emission .....	956.01	032.02	3	1.04067	0.07579	0.05733	3	1.04067	0.07579	0.05733
Potassium, ICP .....		032.05	28	1.06167	0.08548	0.04535	27	1.06136	0.08332	0.03740
Potassium, Misc .....		032.99	1	1.09000	0.04243	0.06000	1	1.09000	0.04243	0.06000
Method Group 032.XX PCT			45	1.06474	0.07299	0.04040	43	1.06334	0.07119	0.03438
Salt, Sol Cl .....	943.01	033.00	6	0.25905	0.03519	0.01740	6	0.25905	0.03519	0.01740
Salt, Poten Cl .....	969.10	033.01	18	0.29036	0.03033	0.00939	17	0.28891	0.02936	0.00582
Salt, Quantab .....		033.03	2	0.22250	0.05620	0.01500	2	0.22250	0.05620	0.01500
Salt, Ion Sel Electrode .....		033.05	1	0.29500	0.00707	0.01000	1	0.29500	0.00707	0.01000
Salt, Misc .....		033.99	3	0.27167	0.03061	0.01000	3	0.27167	0.03061	0.01000
Method Group 033.XX PCT			30	0.27786	0.03750	0.01145	29	0.27658	0.03691	0.00943
Selenium, Fluor .....	969.06	034.01	1	0.40550	0.00919	0.01300	1	0.40550	0.00919	0.01300
Selenium, AA, Hydride .....		034.04	1	0.30200	0.01131	0.01600	1	0.30200	0.01131	0.01600
Selenium, ICP .....		034.05	1	0.41500	0.00707	0.01000	1	0.41500	0.00707	0.01000
Selenium, Misc .....		034.99	1	0.00700	0.00000	0.00000	1	0.00700	0.00000	0.00000
Method Group 034.XX PPM			4	0.28238	0.17655	0.00975	4	0.28238	0.17655	0.00975
Sodium, AA .....		035.00	14	0.04411	0.01582	0.00324	13	0.04408	0.01637	0.00265
Sodium, Ion Sel Electrode .....		035.01	1	0.06815	0.00049	0.00070	1	0.06815	0.00049	0.00070
Sodium, ICP .....		035.03	26	0.03736	0.00971	0.00463	24	0.03642	0.00861	0.00368
Sodium, Flame Emission .....	956.01	035.05	5	0.03466	0.01716	0.00624	4	0.03983	0.01305	0.00080
Sodium, Misc .....		035.99	1	0.03000	0.00141	0.00200	1	0.03000	0.00141	0.00200
Method Group 035.XX PCT			47	0.03958	0.01357	0.00425	43	0.03964	0.01293	0.00299
Sulfur, (Gravimetric) .....		036.00	3	0.30467	0.03570	0.00933	3	0.30467	0.03570	0.00933
Sulfur, ICP .....		036.03	16	0.34816	0.03134	0.00839	15	0.34723	0.03195	0.00695
Sulfur, LECO .....		036.04	2	0.35500	0.00577	0.00000	2	0.35500	0.00577	0.00000
Method Group 036.XX PCT			21	0.34259	0.03392	0.00772	20	0.34162	0.03431	0.00661
Zinc, AA .....	968.08	037.01	11	61.3389	3.21040	2.29000	10	61.0228	2.84657	1.61900
Zinc, ICP, Dry Ash .....	968.08	037.03	14	59.1932	3.35006	2.19071	14	59.1932	3.35006	2.19071
Zinc, ICP, Wet Ash .....	968.08	037.05	11	62.2094	5.24419	3.07273	10	62.6143	4.95921	2.16200
Zinc, Misc .....		037.99	1	57.0850	0.51619	0.73000	1	57.0850	0.51619	0.73000
Method Group 037.XX PPM			37	60.6708	4.13140	2.44297	35	60.6332	3.97327	1.97743
Molybdenum, ICP .....		038.00	7	1.39686	0.11143	0.06143	7	1.39686	0.11143	0.06143
Method Group 038.XX PPM			7	1.39686	0.11143	0.06143	7	1.39686	0.11143	0.06143
Nickel, ICP .....		039.02	2	1.86500	0.19485	0.05000	2	1.86500	0.19485	0.05000
Method Group 039.XX PPM			2	1.86500	0.19485	0.05000	2	1.86500	0.19485	0.05000
Barium, ICP .....		040.00	1	2.83500	0.02121	0.03000	1	2.83500	0.02121	0.03000
Vanadium, ICP .....		041.00	1	0.07050	0.00778	0.01100	1	0.07050	0.00778	0.01100

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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
Vanadium, Misc. ....		041.99	1	4.55800	0.25032	0.35400	1	4.55800	0.25032	0.35400
Method Group 041.XX PPM			2	2.31425	2.59489	0.18250	2	2.31425	2.59489	0.18250
Riboflavin, HPLC .....		104.03	1	0.83030	0.06180	0.08740	1	0.83030	0.06180	0.08740
Vitamin A, HPLC .....		106.02	4	0.38950	0.38475	0.02850	3	0.21933	0.25933	0.00467
Vitamin A, Misc .....		106.99	1	0.18450	0.00212	0.00300	1	0.18450	0.00212	0.00300
Method Group 106.XX KU/LB			5	0.34850	0.35015	0.02340	4	0.21063	0.21977	0.00425
Vitamin E, HPLC .....		109.02	3	28.6785	4.06243	0.47233	3	28.6785	4.06243	0.47233
Method Group 109.XX MG/KG			3	28.6785	4.06243	0.47233	3	28.6785	4.06243	0.47233
Alanine, Post-col Ninhydrin Der .....	994.12	120.00	8	1.65331	0.08449	0.01877	8	1.65331	0.08449	0.01877
Method Group 120.XX PCT			8	1.65331	0.08449	0.01877	8	1.65331	0.08449	0.01877
Arginine, Post-col Ninhydrin Der .....	994.12	121.00	8	1.04564	0.05950	0.00769	8	1.04564	0.05950	0.00769
Method Group 121.XX PCT			8	1.04564	0.05950	0.00769	8	1.04564	0.05950	0.00769
Aspartic, Post-col Ninhydrin Der .....	994.12	122.00	8	1.68622	0.08546	0.01396	8	1.68622	0.08546	0.01396
Method Group 122.XX PCT			8	1.68622	0.08546	0.01396	8	1.68622	0.08546	0.01396
Cysteine/Cystine, PAO Post-col Ninhydrin Der .....	994.12	124.00	7	0.46943	0.03299	0.00829	7	0.46943	0.03299	0.00829
Method Group 124.XX PCT			7	0.46943	0.03299	0.00829	7	0.46943	0.03299	0.00829
Glutamic, Post-col Ninhydrin Der .....	994.12	125.00	7	4.76051	0.18396	0.03686	7	4.76051	0.18396	0.03686
Method Group 125.XX PCT			7	4.76051	0.18396	0.03686	7	4.76051	0.18396	0.03686
Glycine, Post-col Ninhydrin Der .....	994.12	126.00	8	1.02950	0.03963	0.01255	8	1.02950	0.03963	0.01255
Method Group 126.XX PCT			8	1.02950	0.03963	0.01255	8	1.02950	0.03963	0.01255
Histidine, Post-col Ninhydrin Der .....	994.12	127.00	7	0.60489	0.03077	0.00729	7	0.60489	0.03077	0.00729
Method Group 127.XX PCT			7	0.60489	0.03077	0.00729	7	0.60489	0.03077	0.00729
Isoleucine, Post-col Ninhydrin Der ....	994.12	128.00	7	0.96929	0.04530	0.01429	6	0.96500	0.04660	0.00833
Method Group 128.XX PCT			7	0.96929	0.04530	0.01429	6	0.96500	0.04660	0.00833
Leucine, Post-col Ninhydrin Der .....	994.12	129.00	8	2.64274	0.08778	0.02169	8	2.64274	0.08778	0.02169
Method Group 129.XX PCT			8	2.64274	0.08778	0.02169	8	2.64274	0.08778	0.02169
L-Lysine, Post-col Ninhydrin Der .....	994.12	130.00	8	0.65978	0.04014	0.00697	8	0.65978	0.04014	0.00697
Method Group 130.XX PCT			8	0.65978	0.04014	0.00697	8	0.65978	0.04014	0.00697
Methionine, PAO Post-col Ninhydrin Der .....	994.12	131.00	8	0.49371	0.03088	0.00678	8	0.49371	0.03088	0.00678
Method Group 131.XX PCT			8	0.49371	0.03088	0.00678	8	0.49371	0.03088	0.00678
Phenylalanine, Post-col Ninhydrin Der .	994.12	132.00	7	1.27426	0.02328	0.01447	7	1.27426	0.02328	0.01447
Method Group 132.XX PCT			7	1.27426	0.02328	0.01447	7	1.27426	0.02328	0.01447
Proline, Post-col Ninhydrin Der .....	994.12	133.00	6	2.20530	0.13079	0.03217	6	2.20530	0.13079	0.03217
Method Group 133.XX PCT			6	2.20530	0.13079	0.03217	6	2.20530	0.13079	0.03217
Serine, Post-col Ninhydrin Der .....	994.12	134.00	7	1.17141	0.06479	0.02256	6	1.18498	0.05568	0.00965
Method Group 134.XX PCT			7	1.17141	0.06479	0.02256	6	1.18498	0.05568	0.00965
Threonine, Post-col Ninhydrin Der .....	994.12	135.00	7	0.93345	0.04080	0.01364	6	0.93736	0.04107	0.00592
Method Group 135.XX PCT			7	0.93345	0.04080	0.01364	6	0.93736	0.04107	0.00592
Tryptophan, Alka-Hydrol Post-col Ninhydrin Der .....	988.15	136.00	1	0.22500	0.00141	0.00200	1	0.22500	0.00141	0.00200

Feed Check Sample No. - 200833 Corn Dried Distillers Grains (DDG)  
 Association of American Feed Control Officials

- Pass 1 Results for 195 Labs - - Pass 2 Results for 194 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 Rev Phase LC UV		136.01	4	0.23045	0.00605	0.00140	4	0.23045	0.00605	0.00140
Tryptophan, Misc .....		136.99	1	0.17000	0.00000	0.00000	1	0.17000	0.00000	0.00000
Method Group 136.XX PCT			6	0.21947	0.02370	0.00127	6	0.21947	0.02370	0.00127
Tyrosine, Post-col Ninhydrin Der .....	994.12	137.00	5	0.87501	0.08619	0.01854	5	0.87501	0.08619	0.01854
Method Group 137.XX PCT			5	0.87501	0.08619	0.01854	5	0.87501	0.08619	0.01854
Valine, Post-col Ninhydrin Der .....	994.12	138.00	8	1.27173	0.08977	0.01451	7	1.26769	0.09498	0.00801
Method Group 138.XX PCT			8	1.27173	0.08977	0.01451	7	1.26769	0.09498	0.00801
Taurine, Post-col Ninhydrin Der .....	994.12	139.00	1	0.03000	0.00000	0.00000	1	0.03000	0.00000	0.00000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 000.99	--	--	Method 001.07	--	--	Method 001.99	--	--	Method 002.03	--	--	Method 002.06	--
051	27.095	.71	139	8.9400	.18	665	8.5000	-.03	536	26.255	-.71	539	27.490 s	2.49
			413	8.8500	.09	853	8.4000	-.24				018	27.745	2.42
--	Method 001.00	--	669	8.8500	.06	630	8.4450	-.31	--	Method 002.04	--	413	27.250 R	2.09
859	89.112 s	90.07	Avg	8.8097		615	7.3650	-1.72	504	26.800	1.59	160	27.555	1.89
722	10.251	.85	653	8.7550	-.07	541	7.1800	-2.06	Avg	26.199		511	27.540	1.85
309	10.170	.78	278	8.7250	-.12				728	26.095	-.31	001	27.460	1.72
784	9.9950	.59	571	8.7150	-.14	--	Method 002.00	--	405	25.955	-.65	233	27.495	1.72
504	9.6750	.25	849	8.6450	-.22	199	26.980	.72	509	25.945	-.67	263	27.463	1.63
Avg	9.4968		171	8.6600	-.27	015	26.915	.57	187	24.975 s	-3.20	185	27.460	1.62
169	9.0450	-.51	177	8.5600	-.34	Avg	26.658					660	27.380	1.49
560	9.1000 R	-1.11	843	8.7500	-.35	679	26.080	-1.29	--	Method 002.05	--	809	27.335	1.36
029	7.8450	-1.87	038	8.5600	-.35	028	26.080 R	-1.38	190	28.840 s	9.76	786	27.195 R	1.26
			588	8.4700	-.46	826	24.745 S	-4.28	852	28.050 s	6.61	014	27.330	1.26
--	Method 001.03	--	035	8.4600	-.48				674	26.540 R	2.85	168	27.310	1.20
663	8.9600	1.51	033	8.2850	-.72	--	Method 002.01	--	689	26.800	1.82	859	27.272	1.19
Avg	8.3900		045	8.2600	-.76	710	26.845	1.58	177	26.715	1.31	345	27.285	1.16
567	8.3500	-.17	353	8.2450	-.83	672	26.775	1.29	083	26.615	1.09	357	27.160 R	1.11
688	8.2500	-.39	083	8.1750	-.86	731	26.625	.63	849	26.635	.98	647	27.260	1.08
731	8.0000	-1.03	689	7.9500	-1.17	723	26.615	.58	847	26.535	.66	784	27.220	.99
			015	7.8900	-1.26	652	26.500 R	.44	856	26.475	.61	630	27.215	.95
--	Method 001.05	--	366	7.9000 R	-1.41	350	26.547	.28	663	26.435	.46	738	27.205	.92
610	7.9400	.00	345	7.4800	-1.81	653	26.515	.18	722	26.452	.26	843	27.181	.91
			618	7.3750 R	-2.00	848	26.500	.08	178	26.400	.05	762	27.180	.84
--	Method 001.07	--	609	6.7500	-2.80	Avg	26.482		Avg	26.388		029	27.150	.76
591	10.830	2.75				043	26.280	-.89	552	26.290	-.39	554	27.130	.70
014	9.9115	1.51	--	Method 001.08	--	860	26.225	-1.13	591	26.220	-.74	736	27.030	.68
581	9.7050	1.22	590	8.3700	.71	716	26.230	-1.13	855	26.255	-.75	032	27.100	.68
675	9.7050	1.22				098	26.150	-1.47	354	26.185	-.81	590	27.075	.65
559	9.4500	.90	--	Method 001.99	--				620	26.123	-1.07	164	27.100	.62
550	9.4625	.89	405	12.820 s	6.44	--	Method 002.02	--	651	26.093	-1.18	672	27.100	.62
616	9.4400	.87	672	11.980 s	5.19	669	27.200	1.49	622	25.976	-1.67	775	26.905	.58
307	9.2500	.69	676	9.4350	1.39	043	26.925	.95	401	25.210 s	-4.68	144	27.085	.58
098	9.1000 R	.67	786	9.1200	1.01	033	26.685	.59				033	26.975	.56
187	9.2950	.66	693	9.1550	.97	042	26.440	.17	--	Method 002.06	--	782	27.030	.52
679	9.2000	.55	536	8.8450	.51	Avg	26.402		039	28.450 s	6.13	829	27.060	.51
089	9.2100	.54	357	8.5700	.10	036	26.370	-.24	616	28.470 s	4.44	034	27.045	.46
199	9.0550	.33	729	8.5450	.09	152	26.025	-.69	363	27.990 s	3.11	366	27.000	.44
178	8.9500	.20	619	8.5250	.06	169	26.020	-.72	179	27.830	2.67	121	27.032	.43
226	8.9000	.18	Avg	8.5071		307	25.550	-1.72	807	27.805	2.58	529	27.020	.42

\* 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 002.99	--	--	Method 003.01	--
695	27.015	.39	265	26.735	-.42	354	26.100 s	-2.54	305	27.500 s	3.39	504	9.8350	-.71
748	27.015	.38	726	26.785	-.43	004	25.945	-2.63	065	26.941	1.28			
571	27.011	.37	038	26.765	-.45	309	25.930	-2.68	693	26.600 R	1.09	--	Method 003.06	--
199	26.987	.31	017	26.720	-.49	527	25.010 s	-5.23	Avg	26.549		185	10.180	2.34
026	26.975	.31	550	26.735	-.51	574	24.810 s	-5.78	724	26.355	-.63	852	10.100	2.07
619	26.900	.29	122	26.705	-.52	294	24.515 s	-6.60	644	26.350	-.67	688	9.8500	1.15
598	26.910	.27	013	26.705	-.53	645	25.550 s	-9.29				305	9.7050	.62
615	26.945	.26	857	26.705	-.54				--	Method 003.00	--	567	9.7000	.60
205	26.925	.22	853	26.710	-.55	--	Method 002.08	--	309	12.555 S	3.08	083	9.6500	.46
035	26.950	.20	042	26.705	-.55	160	26.455	.88	179	12.437 S	2.93	669	9.6400	.44
003	26.945	.19	824	26.700	-.57	208	26.400	.13	354	12.385 S	2.87	229	9.6150	.31
106	26.930	.15	793	26.655	-.63	Avg	26.390		265	11.745 S	2.13	689	9.5500	.19
505	26.905	.14	175	26.650	-.65	563	26.315	-1.31	139	11.640	2.00	511	9.5450	.07
670	26.930	.14	417	26.650	-.72	062	24.686 S	-22.53	563	11.466	1.79	Avg	9.5311	
010	26.910	.10	098	26.750	-.79				017	10.630	.83	847	9.5250	-.03
142	26.900	.06	541	26.625	-.79	--	Method 002.10	--	152	10.600	.79	199	9.5200	-.05
148	26.885	.04	407	26.595	-.80	629	27.145	1.48	300	10.255	.49	574	9.4750	-.28
Avg	26.879		119	26.595	-.80	675	26.680	.27	035	10.300	.44	148	9.4400	-.33
089	26.850	-.08	045	26.600	-.83	546	26.625	.14	307	10.100	.40	559	9.5100	-.44
589	26.850	-.10	712	26.650	-.87	688	26.600	.06	015	10.055	.26	354	9.3600	-.61
019	26.855	-.14	618	26.555	-.91	Avg	26.577		848	9.9950	.08	731	9.3200	-.76
006	26.833	-.16	027	26.550	-.92	619	26.500	-.33	142	9.9500	.06	169	9.3150	-.78
610	26.850	-.16	298	26.550	-.92	729	25.910	-1.76	Avg	9.8496		647	9.2400	-1.09
278	26.850	-.16	510	26.550	-.93	727	25.917 R	-2.80	615	9.9150	-.09	122	9.2200	-1.12
567	26.850	-.16	226	26.550	-.93				616	9.7500	-.21	009	9.2150	-1.13
138	26.825	-.18	559	26.595	-.95	--	Method 002.11	--	039	9.7325	-.23	003	9.2100 R	-1.27
047	26.800	-.22	009	26.550	-.96	727	26.922	1.78	512	9.6905	-.28	552	9.0100	-1.87
229	26.795	-.24	242	26.530	-.98	713	26.470	1.18	026	9.5800	-.42	294	8.4550 s	-3.86
609	26.810	-.26	673	26.500	-1.06	011	26.200	.78	337	9.4800	-.52	588	7.2450 s	-8.18
764	26.830	-.29	674	26.495	-1.08	688	25.650	.08	164	9.4550	-.55			
646	26.770	-.31	011	26.585	-1.09	Avg	25.966		345	9.4500	-.56	--	Method 003.09	--
504	26.830	-.31	100	26.455	-1.19	178	25.450	-.25	106	9.7650 R	-.58	849	12.825 S	3.21
650	26.805	-.31	815	26.465	-1.26	665	25.105	-.72	032	9.3850	-.64	004	11.810	1.92
553	26.753	-.35	139	26.385	-1.38	731	25.090 S	-.77	353	9.3050	-.73	651	11.491	1.52
588	26.755	-.36	757	26.255	-1.75	672	24.975 S	-.90	190	8.9000	-1.20	722	11.439 R	1.48
520	26.790	-.37	021	26.230	-1.85	724	24.780 S	-1.16	726	8.4871	-1.73	620	11.264	1.24
036	26.770	-.38	353	26.225	-1.92	567	24.850 S	-1.17	527	8.4200	-1.76	016	11.250	1.22
171	26.750	-.39	358	26.280 R	-1.94	588	24.305 S	-1.85				354	11.170	1.12
300	26.810	-.41	337	26.040	-2.34							358	11.140	1.08

\* 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	--
590	10.875	.77	354	9.3200	-.14	205	9.5215	.20	510	7.4000	2.08	716	7.4100	1.30
860	10.890	.77	242	9.3150	-.16	Avg	9.4923		511	6.9500	1.12	723	7.3650	1.22
630	10.655	.47	728	9.3000	-.32	660	9.3800	-.77	226	6.9500	1.08	653	7.3500	1.20
653	10.610	.41	629	9.2550	-.65	553	9.1600	-1.47	190	6.9350	1.05	848	7.2400	1.03
226	10.450	.21	119	9.2450	-.73				563	6.8277	.80	674	7.1850	.93
Avg	10.288		695	9.3000	-.92	--	Method 003.14	--	208	6.7900	.78	672	6.8500 R	.69
510	10.265	-.03	208	9.2100	-1.01	843	13.180 s	11.79	034	6.7450	.62	027	6.9200 R	.67
673	9.9500	-.43	855	9.1950	-1.20	413	11.650 s	6.59	171	6.5900	.27	354	6.9850	.61
263	9.8700	-.53	089	9.1800	-1.24	278	10.500 R	2.67	042	6.5300	.26	178	6.8500 R	.56
505	9.8600	-.54	366	9.2500 R	-1.38	019	10.205	1.60	175	6.5400	.24	673	6.8000	.35
098	9.7250	-.72	098	9.1550	-1.44	407	10.135	1.32	726	6.5330	.14	029	6.8000	.33
723	9.6400	-.82	160	9.0800	-2.04	581	10.110	1.24	Avg	6.4708		038	6.7200	.23
121	9.5950	-.88	609	7.5100 s	-14.67	853	9.8050	.29	009	6.4600	-.07	552	6.7200	.18
029	9.5100	-.99	727	7.4750 s	-15.28	Avg	9.7495		345	6.4500	-.12	722	6.6147	.02
674	9.4850	-1.01				550	9.6250	-.47	309	6.4400	-.15	Avg	6.6111	
675	9.4650	-1.04	--	Method 003.11	--	185	9.6050	-.50	559	6.3750	-.22	620	6.5975	-.04
554	9.4100	-1.11	665	10.060	1.10	021	9.5550	-.67	695	6.3650	-.40	098	6.5700	-.08
038	9.3350	-1.21	567	9.9500	.93	144	9.5150	-.86	354	6.2450	-.50	588	6.5300	-.14
013	9.1900	-1.39	731	9.8550	.77	520	9.4800	-.94	504	6.1100	-.92	591	6.5700	-.33
			688	9.7000	.52	529	9.4600	-1.01	164	6.0000	-1.07	670	6.2800	-.54
			713	9.5700	.31	175	5.4000 s	-14.95	199	5.8900	-1.30	350	6.1153	-.80
--	Method 003.10	--	672	9.5300	.25				015	5.9100 R	-1.38	205	6.0650	-.89
591	12.625 s	26.36	588	9.3800	.05	--	Method 003.99	--	039	5.8015	-1.49	688	6.0000	-.99
051	9.8150 s	6.13	Avg	9.3757		546	10.615	1.80	298	5.4300	-2.32	731	5.9900	-1.01
618	9.9800 s	5.19	178	9.2000 R	-.33	738	10.595	1.49				689	5.9000	-1.15
598	9.9500 s	4.98	727	8.9766	-.64	724	10.005	.31	--	Method 004.01	--	598	5.8750	-1.22
062	9.5490	1.82	724	8.7350	-1.03	Avg	9.8485		855	7.6900	.71	710	5.7250	-1.44
298	9.4700	1.09	011	8.0000	-2.22	786	9.8300	-.12				849	5.7050	-1.47
363	9.3500	.97				618	9.7722	-.66	--	Method 004.03	--	590	4.5950 s	-4.08
619	9.4350	.96	--	Method 003.12	--	693	9.4900	-.71	045	9.1000 S	4.63			
679	9.4450	.95	357	9.9000	1.14	536	9.4645	-.76	679	6.8800	1.17	--	Method 004.07	--
045	9.4400	.90	Avg	9.6533		710	9.4400	-.81	Avg	6.1250		520	10.455 s	5.48
042	9.4300	.83	171	9.6250	-.27	047	9.4250	-.84	619	6.0500	-.12	278	10.300 s	5.14
623	9.4359	.82	670	9.4350	-1.06	712	9.3400 R	-1.99	160	5.4450	-1.06	021	8.4350	2.66
033	9.3650	.80										554	7.8500	1.87
100	9.4100	.68	--	Method 003.13	--	--	Method 004.00	--	--	Method 004.06	--	610	7.7000	1.69
233	9.4100	.61	028	12.855 s	14.13	647	11.725 s	11.74	609	12.560 s	9.65	185	7.6200	1.56
034	9.3900	.44	646	9.7400	1.10	353	8.3250 s	4.15	610	8.0500 s	3.09	144	7.2950	1.13
178	9.3500	.42	187	9.6600	.69	265	8.0250 A	3.49	675	8.1650	2.52	413	7.0000	.83
Avg	9.3348													

\* 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 004.07	--	--	Method 004.11	--	--	Method 005.00	--	--	Method 005.00	--	--	Method 005.00	--
669	7.0150	.75	731	6.7250	-.62	712	4.4700	.93	688	4.4000	-.36	226	4.4000 R	-2.35
536	6.8050 R	.74	011	6.7000	-.64	541	4.4850	.89	062	4.4215	-.37	510	4.2250	-2.39
300	6.5000 R	.63	567	6.5000 R	-.96	645	4.5000	.80	856	4.4000	-.38	178	4.2500 s	-2.73
407	6.8800	.57	727	5.8257	-1.73	675	4.5000	.80	855	4.4250	-.41	083	4.1750	-2.98
028	6.8500	.54				300	4.4950	.76	616	4.4000	-.43	144	4.1950 s	-3.55
003	6.8100	.53	--	Method 004.99	--	653	4.4900	.69	784	4.3950	-.45	609	4.1550 s	-3.79
708	6.6700	.29	856	32.250 s	100.32	619	4.4800	.67	722	4.3916	-.46	630	4.0800 s	-4.09
646	6.6200	.23	727	11.550 S	21.27	353	4.4800	.67	278	4.3900	-.48	618	4.0319 s	-4.74
033	6.5600	.15	693	9.0050 R	11.56	139	4.4450	.66	590	4.3900	-.49			
089	6.5550	.14	051	6.2500	1.02	345	4.4750	.65	004	4.4050	-.51	--	Method 005.02	--
042	6.4950	.06	169	6.2250	.91	757	4.4850	.63	646	4.4100	-.52	610	4.4000	.00
Avg	6.4526		724	6.0180	.12	413	4.4500	.62	026	4.3900	-.53			
019	6.3600	-.15	Avg	5.9866		672	4.4500	.62	354	4.3850	-.54	--	Method 005.11	--
242	6.3250	-.18	629	5.8500	-.56	205	4.4815	.59	199	4.3950	-.58	178	5.7000 S	.00
529	6.2850	-.22	663	5.5900	-1.52	849	4.4800	.58	358	4.3900	-.59	567	6.4000 S	.00
098	6.2600	-.26				175	4.4600	.57	035	4.3800	-.59	588	5.8800 S	.00
026	6.2500	-.27	--	Method 005.00	--	651	4.4695	.47	169	4.3800	-.59	672	5.8100 S	.00
121	6.2145	-.32	852	5.3500 s	10.68	298	4.4700	.47	660	4.4200	-.59	688	5.7000 S	.00
581	6.3050	-.33	187	5.0250 s	6.89	504	4.4650	.43	148	4.3800	-.60	713	5.5700 S	.00
229	6.1950	-.37	265	4.8850 s	5.28	598	4.4500	.32	021	4.3850	-.61	724	4.0700 s	.00
505	5.8700	-.78	305	4.7250 A	3.41	034	4.4400	.25	762	4.3750	-.65	727	5.2416 S	.00
035	5.7800	-.90	033	4.7000	3.13	809	4.4500	.25	559	4.3750	-.65	731	5.8850 S	.00
567	5.7500	-.94	689	4.6850 s	3.01	119	4.4450	.17	309	4.3650	-.77	Avg	0.0000	
013	5.7300	-.97	853	4.5050 s	2.97	307	4.4450	.17	350	4.3645	-.77			
004	5.7300	-.98	098	4.6650 A	2.82	661	4.4400	.10	591	4.4050	-.81	--	Method 005.99	--
294	5.6250	-1.11	520	4.6400 s	2.69	Avg	4.4310		726	4.3849	-.92	826	5.3150 s	13.15
122	5.5450	-1.25	363	4.6200	2.19	179	4.4305	-.04	736	4.3550	-.93	727	4.5700	1.91
100	5.4600	-1.33	045	4.6050	2.06	029	4.4250	-.19	539	4.3550	-.93	536	4.5300	1.10
160	5.4450	-1.35	357	4.6000	1.96	764	4.4150	-.19	775	4.3500	-.95	652	4.5000	.60
307	5.4500	-1.36	089	4.5600	1.50	160	4.4300	-.23	622	4.3482	-.96	673	4.5000	.60
			100	4.5550	1.44	731	4.4150	-.25	748	4.3500	-1.05	847	4.4750	.32
--	Method 004.11	--	121	4.5375	1.43	815	4.4200	-.27	185	4.3400	-1.06	Avg	4.4591	
724	8.5900	1.71	337	4.5500	1.40	782	4.4100	-.27	615	4.3850 R	-1.12	065	4.4057	-.78
588	8.1800	1.20	729	4.5500	1.40	552	4.4050	-.31	829	4.3250	-1.30	546	4.4150	-.82
672	7.5500	.42	676	4.5375	1.26	710	4.4050	-.31	670	4.3700 R	-1.36	724	4.4000	-.86
688	7.3500	.18	015	4.5150	.99	679	4.4100	-.34	807	4.3100	-1.57	663	4.3950	-.94
Avg	7.2151		620	4.5101	.98	563	4.4037	-.35	171	4.2600	-1.99	728	4.4000	-.97
178	7.0500	-.21	650	4.4850	.98	038	4.4300	-.35	674	4.2600	-2.00	574	4.4500 R	-1.17
713	6.9650	-.32	550	4.5125	.97	567	4.4000	-.36	417	4.3050 R	-2.32			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 006.05	--	--	Method 008.08	--	--	Method 009.99	--	--	Method 011.01	--	--	Method 011.01	--
710	3.5400	-.71	354	10.370	-1.89	693	34.120	.55	185	13.205	1.77	119	11.160	-.07
						728	32.300	.23	670	13.080	1.66	622	11.105	-.13
--	Method 008.02	--	--	Method 008.99	--	Avg	32.290		309	13.020 R	1.64	171	11.110	-.15
675	18.570	1.30	307	19.700	1.34	610	30.450	-1.47	738	12.670	1.29	305	11.050	-.16
045	18.450	1.25	Avg	16.890		--	Method 010.03	--	407	12.650	1.28	100	11.065	-.18
728	17.565	.95	610	15.500	-.60	843	7.8350	1.49	623	12.596	1.23	062	11.023	-.19
187	17.425	.84	358	15.470	-.60	Avg	6.8562		728	12.540	1.18	298	11.000	-.20
353	16.935	.66	--	Method 009.07	--	826	6.7300	-.23	646	12.520	1.16	762	10.990	-.21
171	16.850	.62	675	41.130	1.83	618	6.6949	-.28	559	12.445 R	1.13	354	10.980	-.22
405	16.750	.57	083	38.200	1.17	546	6.1650	-1.07	233	12.470	1.12	723	10.965	-.23
Avg	15.351		309	36.295	.78	--	Method 010.11	--	541	12.405	1.06	358	10.865	-.34
098	15.300	-.20	307	35.600	.67	731	9.5950	2.29	591	12.290	.95	650	10.810	-.38
083	14.400	-.39	590	34.300	.32	567	9.4500 R	2.13	144	12.130	.82	098	10.950 R	-.40
226	14.000	-.56	Avg	32.851		713	8.4950	.39	775	12.080	.80	620	10.711	-.46
035	13.065	-.92	045	31.650	-.32	Avg	8.2731		520	12.010 R	.77	843	10.700	-.48
309	12.360	-1.22	663	30.550	-.51	672	8.2500	-.05	675	12.060	.75	764	10.680	-.50
590	12.150	-1.32	226	29.900	-.65	588	8.2500	-.30	829	12.050	.74	660	10.615	-.55
527	11.090	-1.72	187	29.120	-.82	178	8.0500	-.47	034	12.045	.73	645	10.400	-.74
--	Method 008.05	--	098	28.850	-.88	727	7.9649	-.56	138	11.975	.67	552	10.390	-.75
265	16.800	.71	353	25.770	-1.55	688	7.9000	-.65	205	11.965	.66	175	10.250	-.87
--	Method 008.08	--	--	Method 009.09	--	724	7.6800	-1.03	757	11.940	.64	021	10.150	-.97
510	21.900	1.71	674	35.530	1.92	--	Method 010.99	--	651	11.940	.64	598	9.8450	-1.23
026	20.345	1.23	354	32.985	.69	511	12.125	2.13	748	11.910	.62	674	9.7750 R	-1.35
413	20.200	1.19	536	32.900	.67	673	10.700	1.13	824	11.850	.56	152	9.6500	-1.41
536	19.520 R	1.04	510	32.800	.64	417	10.345	.88	855	11.835	.55	574	9.6400	-1.42
001	19.380	.93	413	32.500	.59	652	10.100	.70	793	11.830	.54	179	9.2100	-1.80
033	18.250	.57	265	31.750	.08	Avg	9.1117		847	11.310 R	.54	294	9.1700	-1.84
581	16.820	.15	Avg	31.585		724	8.9200	-.14	563	11.782	.50	722	9.0940	-1.90
106	16.855	.14	357	31.400	-.17	726	8.8540	-.19	815	11.740	.48	710	8.7550	-2.21
674	16.600	.07	185	30.430	-.56	337	8.8100	-.22	122	11.695	.42	736	8.5650	-2.38
Avg	16.420		160	29.640	-.95	852	8.7000	-.30	229	11.645	.39	809	8.0750	-2.81
357	15.650	-.26	581	29.045	-1.24	065	7.9322	-.84	807	11.650	.38	--	Method 011.99	--
278	15.000	-.47	278	28.450	-1.53	527	7.8550	-.89	148	11.635	.37	265	10.015	.86
160	14.740	-.53	106	22.340 s	-4.50	620	7.8040	-.93	226	11.600	.34	Avg	9.8825	
307	14.700	-.58				712	7.1950	-1.37	026	11.375	.14	857	9.7500	-.87
004	13.785	-.83							539	11.365	.14	727	7.0650 S	-17.44
185	11.710	-1.49							350	11.359	.12			
									Avg	11.224				
									510	11.200	-.02			

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 012.00	--	--	Method 013.02	--	--	Method 013.10	--	--	Method 015.00	--	--	Method 019.01	--
354	5.4400	1.53	855	11.675	.76	843	13.180	2.26	Avg	26.356		139	0.1930	-.42
689	4.1500	.54	645	11.650	.68	185	12.275	1.34	560	23.600	-.40	205	0.1880	-.54
Avg	3.4733		033	11.595	.64	652	12.150	1.21	021	21.000	-.87	653	0.1875	-.58
559	3.3500	-.15	164	11.590	.60	660	11.610	.72	510	20.000	-.91	504	0.1900	-.67
672	3.3000	-.16	100	11.530	.52	539	11.310	.36	353	18.590	-1.12	038	0.1850	-.69
567	3.2500	-.18	029	11.330	.32	307	11.150	.31	--	Method 017.00	--	098	0.1850	-.74
673	1.3500	-1.67	807	11.310	.28	042	11.205	.24	560	5.1800	1.07	710	0.1800	-.95
--	Method 012.01	--	809	11.270	.20	177	11.080	.12	693	4.7050	.95	307	0.1800	-.95
185	2.9550	.71	354	11.270	.19	716	10.990	.02	Avg	4.6038		650	0.1750	-1.22
--	Method 012.03	--	736	11.130	.08	Avg	10.971		510	4.5700	-.08	675	0.1650	-1.72
098	3.8500	.71	175	11.150	.07	688	10.750	-.23	353	3.9600	-1.20	169	0.1650 R	-2.12
--	Method 012.04	--	Avg	11.126		350	10.672	-.31	--	Method 017.99	--	--	Method 019.03	--
106	4.8500	1.76	762	11.080	-.11	160	10.635	-.35	307	5.5500	.93	Avg	0.2050	
353	3.4500	.17	824	11.050	-.12	672	10.400	-.62	Avg	4.7975		307	0.2050	-.71
Avg	3.3040		853	11.125	-.23	610	10.050	-.95	358	4.0450	-.80	--	Method 019.05	--
160	2.9200	-.44	208	10.750	-.49	353	10.020	-1.00	--	Method 019.00	--	405	0.2950 s	8.71
510	2.8000	-.57	032	10.750	-.49	673	9.8500	-1.15	552	0.2600	.93	520	0.2300 s	3.71
278	2.5000	-.92	757	10.745	-.50	663	9.1750	-1.85	Avg	0.2259		029	0.2054	1.71
--	Method 012.11	--	001	10.725	-.52	--	Method 013.11	--	620	0.1917	-.80	550	0.2005	1.45
567	10.000	1.42	026	10.705	-.54	417	15.100 S	25.63	849	0.0750 S	-3.54	226	0.2000	1.28
731	9.6900	1.11	815	10.770 R	-.56	014	11.370	.71	--	Method 019.01	--	171	0.1950	.98
713	8.5850	.06	229	10.690	-.56	Avg	11.370		179	0.2720 s	3.71	598	0.1950	.98
Avg	8.5383		764	10.675	-.59	--	Method 013.13	--	278	0.2450	2.35	510	0.1900	.50
178	7.8000	-.71	748	10.575	-.72	581	12.315	.49	609	0.2300	1.66	298	0.1900	.50
672	7.6450	-.86	337	10.550	-.74	Avg	12.265		731	0.2250	1.35	300	0.1880	.42
588	7.5100	-1.01	616	10.300	-1.07	027	12.215	-1.12	670	0.2195	1.06	100	0.1850	.41
--	Method 013.02	--	011	10.295	-1.07	--	Method 013.99	--	674	0.2150	.86	Avg	0.1835	
843	13.180	2.66	775	9.7400	-1.79	051	12.740	1.34	363	0.2150	.86	185	0.1800	-.28
038	12.385	1.63	650	9.6400	-1.92	Avg	12.057		619	0.2010	.37	083	0.1800	-.28
793	12.140	1.33	676	9.4105	-2.21	065	11.882	-.26	536	0.2015	.16	553	0.1785	-.40
826	11.955	1.07	--	Method 013.03	--	689	11.550	-.79	354	0.2000	.07	026	0.1772	-.61
675	11.840	.92	591	10.775	.71	--	Method 013.08	--	Avg	0.1987		661	0.1745	-.71
856	11.825	.90	--	Method 013.08	--	591	10.390	-.71	563	0.1967	-.12	358	0.1750	-.77
171	11.765	.83	--	Method 015.00	--	--	Method 015.00	--	722	0.1984	-.13	089	0.1750	-.77
						520	35.500	1.31	036	0.1960	-.15	265	0.1750	-.77
						616	33.800	1.07				645	0.1633	-1.65
						154	32.000	.80						

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 019.05 --			-- Method 021.02 --			-- Method 022.03 --			-- Method 025.03 --			-- Method 026.99 --		
413	0.1600	-1.84	510	0.7000	1.73	083	26.500	-1.32	405	272.50 s	17.07	563	0.2610	-.71
			Avg	0.2700		265	28.500 R	-1.57	265	191.00 s	5.80			
-- Method 019.08 --			154	0.2500	-.09	510	18.000 s	-4.95	083	159.50	1.48	-- Method 027.01 --		
590	0.2800	.84	171	0.2500	-.22				029	158.50	1.30	098	0.3200	1.70
Avg	0.2500		038	0.1500	-.52	-- Method 022.05 --			553	156.50	1.03	609	0.3150	1.19
673	0.2200	-.89	616	0.0000	-1.09	160	41.750 s	8.02	520	155.50	.91	038	0.3155	1.18
						187	32.440	1.35	100	151.50	.39	278	0.3100	1.07
-- Method 019.09 --			-- Method 021.99 --			726	32.422	1.33	Avg	149.10		Avg	0.3005	
353	0.2650 s	4.22	693	1.1500	.71	413	32.100	1.15	226	149.00	-.14	563	0.3004	-.09
160	0.2308	2.22				038	30.900	.43	510	147.00	-.29	139	0.2963	-.33
726	0.2126	1.27	-- Method 022.01 --			Avg	30.571		598	146.50	-.37	722	0.2953	-.40
021	0.1965	.55	038	31.000	1.21	199	30.500	-.09	171	143.50	-.80	504	0.2995	-.43
Avg	0.1882		098	31.000	1.21	154	30.000	-.41	550	141.25	-1.10	710	0.2950	-.57
560	0.1835	-.25	731	30.400	.74	560	29.950	-.46	300	141.40	-1.11	307	0.2900	-.81
038	0.1830	-.28	307	29.850	.72	021	29.800	-.62	358	144.34 R	-1.20	650	0.2975	-.92
199	0.1787	-.50	563	30.155	.58	106	28.750	-1.31	026	139.00	-1.50	337	0.2915	-.95
154	0.1778	-.55	722	29.400	.41	353	28.845	-1.38				169	0.2800	-1.58
187	0.1743	-.73	Avg	29.156		309	29.090 R	-1.75	-- Method 025.05 --					
106	0.1735	-.77	278	29.050	-.21	616	22.750 s	-5.61	187	226.54 s	5.51	-- Method 027.03 --		
309	0.1833 R	-.90	536	28.450	-.43				160	181.50	2.27	265	0.3500	1.91
616	0.1715	-.90	504	28.500	-.47	-- Method 022.99 --			726	161.78	.85	413	0.3400	1.40
			354	27.410	-1.04	693	30.265	.71	353	158.55	.78	405	0.3350	1.18
-- Method 019.99 --			710	25.500	-2.12				021	154.50	.51	171	0.3260	.74
852	0.8100 S	89.81				-- Method 025.01 --			413	154.00	.32	510	0.3200	.39
693	0.1750	.71	-- Method 022.03 --			504	162.50	1.41	Avg	150.00		598	0.3200	.39
Avg	0.1750		405	35.000	2.35	098	155.50	.94	038	147.50	-.31	226	0.3150	.29
			550	30.081	.92	307	148.50 R	.80	199	145.40	-.33	300	0.3175	.28
-- Method 020.01 --			520	31.000	.76	563	152.08	.73	154	144.50	-.41	Avg	0.3122	
510	1.6300	1.02	358	29.855	.76	038	152.00	.73	106	145.00	-.46	550	0.3095	-.14
154	1.5000	.68	598	31.000	.63	722	148.53	.53	616	141.00	-.68	029	0.3094	-.20
Avg	1.2329		029	29.985	.48	731	144.50	.29	560	139.50	-.85	100	0.3050	-.44
171	1.1000	-.34	226	30.500	.47	Avg	142.50		309	126.80	-1.69	026	0.3006	-.59
021	1.0000 R	-.79	171	30.500	.47	710	139.00	-.07				553	0.2925	-1.00
560	0.7015	-1.37	Avg	29.528		670	134.50	-.29	-- Method 025.99 --			083	0.2900	-1.12
			553	28.700	-.38	278	119.00	-1.20	693	148.35	-.71	520	0.3000 R	-1.18
-- Method 020.99 --			100	28.000	-.66	354	117.40	-1.29				358	0.2850	-1.40
616	0.9250	-.71	300	27.615	-.82	536	109.73 S	-1.73				185	0.2800	-1.63
			026	27.650	-.85									
			185	27.000	-1.09									

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 027.05	--	--	Method 028.03	--	--	Method 031.01	--	--	Method 031.05	--	--	Method 032.01	--
160	0.3804 s	3.88	Avg	29.466		619	0.8330	.33	226	0.8100	-.35	609	1.0400	-1.10
726	0.3348	1.60	598	29.000	-.22	563	0.8299	.11	106	0.8045	-.38	710	1.0300	-1.26
309	0.3043 R	1.43	510	29.000	-.22	Avg	0.8277		187	0.7955	-.61	354	1.0250	-1.38
021	0.3195	1.03	185	28.500	-.51	098	0.8200	-.38	553	0.7975	-.62	337	0.8250 s	-7.32
199	0.3111	.40	029	28.315	-.75	139	0.8160	-.63	089	0.7950	-.63	675	0.8000 s	-8.05
353	0.3050	.27	300	27.750	-.81	722	0.8147	-.65	550	0.7955	-.67			
560	0.3065	.24	358	27.630	-1.02	205	0.8145	-.67	661	0.7920	-.70	--	Method 032.02	--
038	0.3035	.13	026	26.400	-1.57	650	0.8250	-.76	353	0.7950	-.73	504	1.1100	1.40
Avg	0.3031					670	0.8050	-1.16	199	0.7873	-.83	Avg	1.0407	
106	0.3030	-.05	--	Method 028.05	--	710	0.8050	-1.16	645	0.8094	-.83	169	1.0250	-.22
154	0.2963	-.43	160	38.650 s	4.47	038	0.8115 R	-1.26	154	0.7745	-1.15	536	0.9870	-.71
187	0.2934	-.49	353	31.885	1.56	653	0.7990	-1.45	185	0.7650	-1.40			
616	0.2585	-2.27	726	31.227	1.00	169	0.7900	-1.88	520	0.7750 R	-1.81	--	Method 032.05	--
			309	29.440	.71				309	0.7261	-2.45	160	1.4081 s	4.17
--	Method 027.99	--	106	30.100	.51	--	Method 031.03	--	616	0.6885 S	-3.38	405	1.2500	2.27
693	0.3050	.71	021	29.200	.47	504	0.8545	.89				520	1.0700 R	1.56
			154	29.500	.30	036	0.8265	.33	--	Method 031.06	--	021	1.1400	1.19
--	Method 028.01	--	413	29.100	.23	Avg	0.8103		536	0.9050 S	.00	353	1.1400	1.19
563	31.530	1.36	560	29.350	.12	307	0.7500	-1.26				226	1.1550	1.14
038	30.500	.93	Avg	29.089					--	Method 031.99	--	560	1.1450	1.02
731	30.550	.93	038	28.850	-.13	--	Method 031.05	--	552	0.8600	1.31	413	1.1450	1.01
Avg	28.436		187	26.875	-1.04	160	1.0680 s	6.41	673	0.8250	.52	171	1.1200	.71
098	28.000	-.48	616	24.450	-2.20	405	1.0050 s	4.82	Avg	0.8238		726	1.1162	.66
722	27.211	-.54				265	0.8950	1.96	590	0.8100	-.59	598	1.1050	.55
307	28.300	-.66	--	Method 028.99	--	726	0.8700	1.31	693	0.8000	-1.08	300	1.1020	.52
536	25.897	-1.12	693	28.735	.71	598	0.8700	1.31	852	0.7250 S	-3.54	026	1.0825	.39
710	25.500	-1.31				021	0.8515 R	1.26				038	1.0900	.36
354	20.315 S	-3.57	--	Method 031.01	--	358	0.8550	1.13	--	Method 032.01	--	199	1.0900	.35
278	13.000 S	-6.80	278	0.8900 s	3.14	300	0.8577	1.12	278	1.1200 R	1.87	Avg	1.0614	
			731	0.8650	1.87	083	0.8550	.93	563	1.1297	1.73	100	1.0350	-.36
--	Method 028.03	--	337	0.8550	1.55	029	0.8534	.88	650	1.1100	1.19	154	1.0324	-.41
405	79.500 s	23.34	674	0.8500	1.22	560	0.8505	.85	098	1.0900	1.05	358	1.0300	-.52
550	34.932	2.55	620	0.8444	.94	298	0.8400	.60	205	1.0850	.60	187	1.0175	-.53
265	32.000	1.18	354	0.8450	.90	413	0.8400	.54	307	1.0850	.60	510	1.0050	-.68
171	30.500	.54	849	0.8300	.51	171	0.8250	.20	038	1.0800	.26	553	1.0050	-.70
226	30.000	.25	179	0.8350	.47	038	0.8260	.18	Avg	1.0712		550	1.0595	-.73
100	29.500	.23	363	0.8350	.44	Avg	0.8191		670	1.0690	-.14	029	0.9968	-.77
520	29.500	.23	609	0.8350	.44	100	0.8150	-.17	139	1.0560	-.46	265	0.9950	-.80
083	29.500	.23	036	0.8350	.36	510	0.8150	-.17	619	1.0550	-.50	083	0.9950	-.80

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 032.05	--	--	Method 033.01	--	--	Method 035.00	--	--	Method 035.03	--	--	Method 036.03	--
645	1.0214	-1.01	106	0.2165	-2.47	278	0.0400	-.25	029	0.0277	-1.01	169	0.3200	-.91
185	0.9600	-1.22				098	0.0400	-.25	038	0.0275	-1.04	229	0.3000	-1.48
309	0.9256	-1.65	--	Method 033.03	--	307	0.0388	-.34	309	0.0256	-1.27	616	0.2255 s	-3.82
106	0.8980	-1.96	598	0.2700	.85	139	0.0385	-.35	100	0.0250	-1.45	598	0.0250 s	-10.09
616	0.1110 s	-11.41	Avg	0.2225		038	0.0365	-.47						
			265	0.1750	-.89	205	0.0319	-.75	--	Method 035.05	--	--	Method 036.04	--
--	Method 032.99	--				337	0.0310	-.81	536	0.3885 s	26.72	226	0.3600	.87
693	1.0900	.71	--	Method 033.05	--	363	0.0300	-.86	169	0.0600	1.55	Avg	0.3550	
			171	0.2950	.71	650	0.0290	-.92	Avg	0.0398		510	0.3500	-.87
									171	0.0380	-.16			
--	Method 033.00	--	--	Method 033.99	--	--	Method 035.01	--	106	0.0335	-.49	--	Method 037.01	--
353	0.3000	1.16	673	0.3000	.93	563	0.0682	.71	560	0.0278	-.92	689	205.50 s	50.77
160	0.2950	1.03	693	0.2800	.43				504	0.0140 R	-2.25	038	64.500 R	2.00
653	0.2650	.46	Avg	0.2717		--	Method 035.03	--				536	66.350	1.87
Avg	0.2591		309	0.2493	-.34	726	0.1697 s	22.39	--	Method 035.99	--	504	62.500	1.02
309	0.2493	-.34	855	0.2350	-1.21	187	0.0867 s	5.84	693	0.0300	.71	563	62.865	.65
539	0.2350	-.70	552	0.1400 S	-4.41	550	0.0600 R	2.89				354	61.950	.33
504	0.2100	-1.51	619	0.1365 S	-4.42	405	0.0600	2.74	--	Method 036.00	--	Avg	61.023	
			358	0.0800 S	-6.26	616	0.0505	1.66	038	0.3440	1.11	278	60.650	-.23
						226	0.0450	1.15	175	0.3050	.14	722	60.563	-.24
--	Method 033.01	--	--	Method 034.01	--	598	0.0450	1.15	Avg	0.3047		307	59.350	-.66
185	0.4300 s	4.82	038	0.4055	.71	520	0.0373 R	.95	307	0.2650	-1.12	098	61.000	-.70
226	0.4000 s	3.84				510	0.0420	.66				731	58.500	-.90
026	0.3450	1.92	--	Method 034.04	--	353	0.0405	.56	--	Method 036.03	--	710	56.500	-1.60
337	0.3400	1.74	563	0.3020	.71	298	0.0400	.42	160	0.4378	2.84			
098	0.3150 R	1.49				089	0.0400	.42	027	0.3760	.91	--	Method 037.03	--
650	0.3050	.75	--	Method 034.05	--	265	0.0400	.42	154	0.3759	.90	405	159.50 s	30.00
100	0.3100	.72	154	0.4150	.71	160	0.0375	.13	021	0.3620 R	.66	171	76.500 s	5.19
510	0.3000	.38				Avg	0.0364		171	0.3605	.42	550	63.940	1.43
307	0.2950	.27	--	Method 034.99	--	021	0.0347	-.28	560	0.3505	.15	100	62.000	.89
354	0.2950	.27	098	0.0070	.00	645	0.0346	-.30	Avg	0.3472		265	61.000	.80
278	0.2900	.04				300	0.0315	-.57	550	0.3470	-.03	300	59.895	.75
610	0.2890	.00	--	Method 035.00	--	199	0.0315	-.58	187	0.3423	-.15	029	61.015	.63
Avg	0.2889		722	0.1642 s	7.34	413	0.0350	-.60	708	0.3415	-.20	598	61.000	.54
199	0.2850	-.22	710	0.0800	2.19	358	0.0350	-.60	038	0.3360	-.36	226	60.500	.42
229	0.2800	-.30	609	0.0700	1.58	083	0.0350	-.60	353	0.3350	-.41	083	60.500	.42
021	0.2800	-.30	354	0.0650	1.31	661	0.0305	-.69	106	0.3295	-.56	Avg	59.193	
559	0.2800	-.30	619	0.0445 R	.34	154	0.0301	-.74	693	0.3300	-.62	510	59.000	-.06
205	0.2760	-.46	Avg	0.0441		185	0.0300	-.74	300	0.3265	-.76	553	57.400	-.57
413	0.2700	-.64	670	0.0425	-.23									
710	0.2550	-1.17												

\* 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 040.00	--	--	Method 121.00	--	--	Method 125.00	--	--	Method 129.00	--
520	58.500	-.77	560	2.8350	.71	859	1.1240	1.32	675	4.5250	-1.28	859	2.7235	.96
026	56.300	-.87				571	1.1100	1.08	350	4.5250	-1.28	160	2.7210	.89
358	56.155	-1.12	--	Method 041.00	--	644	1.0775	.54	504	3.9850 s	-4.28	571	2.7150	.84
185	51.500	-2.34	154	0.0705	-.71	619	1.0650	.34				644	2.6755	.38
						Avg	1.0456		--	Method 126.00	--	504	2.6700	.31
--	Method 037.05	--	--	Method 041.99	--	504	1.0450	-.08	160	1.0695	1.08	Avg	2.6427	
106	83.900 S	4.31	563	4.5580	.71	160	1.0197	-.46	571	1.0700	1.02	619	2.6100	-.39
160	70.650	1.62				675	0.9650	-1.36	859	1.0625	.84	350	2.5470	-1.09
353	67.035	.93	--	Method 104.03	--	350	0.9590	-1.46	504	1.0300	.50	675	2.4800	-1.87
726	65.408	.56	563	0.8303	-.71				619	1.0350	.19			
038	64.900	.55				--	Method 122.00	--	Avg	1.0295		--	Method 130.00	--
413	64.700	.53	--	Method 106.02	--	644	1.7965	1.29	644	1.0165	-.33	859	0.7140	1.35
154	63.000	.22	670	0.9000 R	2.63	859	1.7800	1.11	350	0.9975	-.81	571	0.6885	.72
Avg	62.614		021	0.5480	1.27	571	1.7500	.76	675	0.9550	-1.88	350	0.6830	.58
560	59.200	-.69	Avg	0.2193		619	1.7000	.20				160	0.6757	.40
021	59.150	-1.03	199	0.1100	-.42	Avg	1.6862		--	Method 127.00	--	504	0.6600	.25
187	56.150	-1.31	616	0.0000	-.85	160	1.6713	-.21	675	0.7600 s	5.05	Avg	0.6598	
199	55.950	-1.35				504	1.6500	-.42	571	0.6420	1.25	619	0.6585	-.05
309	58.160 R	-1.52	--	Method 106.99	--	350	1.5920	-1.10	160	0.6337	.94	644	0.6035	-1.40
616	45.000 S	-3.57	563	0.1845	.71	675	1.5500	-1.60	859	0.6255	.71	675	0.5950	-1.62
									644	0.6090	.14			
--	Method 037.99	--	--	Method 109.02	--	--	Method 124.00	--	Avg	0.6049		--	Method 131.00	--
693	57.085	.71	563	33.831	1.27	160	1.0862 s	18.70	619	0.5935	-.41	644	0.5365	1.39
			Avg	28.679		675	0.5150	1.39	504	0.5700	-1.13	350	0.5260	1.05
--	Method 038.00	--	199	26.850	-.47	619	0.4970	.84	350	0.5605	-1.44	859	0.5045	.36
693	1.4950	1.11	560	25.355	-.82	571	0.4950	.78				504	0.4950	.17
560	1.4800	.79				Avg	0.4694		--	Method 128.00	--	571	0.4960	.15
029	1.4730	.73	--	Method 120.00	--	859	0.4680	-.13	160	1.0430	1.69	Avg	0.4937	
154	1.4650	.61	160	1.8140	1.91	504	0.4500	-.66	504	0.9950 R	.84	619	0.4930	-.29
Avg	1.3969		859	1.7075	.67	350	0.4315	-1.15	571	0.9905	.55	675	0.4550	-1.26
038	1.3500	-.61	571	1.6950	.50	644	0.4295	-1.21	Avg	0.9650		160	0.4437	-1.62
106	1.2900	-.96	Avg	1.6533					859	0.9595	-.20			
510	1.2250	-1.56	644	1.6360	-.21	--	Method 125.00	--	619	0.9535	-.26	--	Method 132.00	--
021	1.2000 s	-3.22	504	1.6400	-.28	644	4.9570	1.07	644	0.9455	-.42	859	1.2985	1.19
			619	1.6250	-.34	859	4.9270	.93	350	0.8980	-1.44	619	1.3000	1.19
--	Method 039.02	--	350	1.5790	-.88	571	4.8800	.68	675	0.7750 s	-4.11	571	1.2900	.80
560	2.0300	.88	675	1.5300	-1.46	619	4.8650	.57				Avg	1.2743	
Avg	1.8650					Avg	4.7605					644	1.2705	-.19
154	1.7000	-.85				160	4.6446	-.64				504	1.2650	-.45

\* 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

<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 132.00	--	--	Method 136.01	--									
160	1.2524	-1.02	619	0.2375	1.19									
350	1.2435	-1.32	644	0.2330	.42									
675	1.1050 s	-7.28	Avg	0.2305										
			571	0.2290	-.29									
--	Method 133.00	--	160	0.2223	-1.35									
644	2.3340	.98	--	Method 136.99	--									
571	2.2800	.59	504	0.1700	.00									
675	2.2700	.55	--	Method 137.00	--									
619	2.2350	.25	160	1.0116	1.58									
Avg	2.2053		644	0.9105	.41									
160	2.1578	-.38	Avg	0.8750										
504	1.9550	-1.92	504	0.8600	-.29									
--	Method 134.00	--	350	0.8080	-.78									
160	1.2444	1.07	675	0.7850	-1.06									
859	1.2290	.81	--	Method 138.00	--									
571	1.2050	.37	160	1.4394	1.81									
Avg	1.1850		504	1.3000 R	.46									
619	1.1800	-.09	571	1.3000	.34									
675	1.1700	-.32	859	1.2830	.18									
350	1.0815	-1.86	Avg	1.2677										
504	1.0900 R	-1.93	619	1.2650	-.06									
644	0.6595 s	-13.03	644	1.2615	-.07									
--	Method 135.00	--	350	1.2150	-.56									
644	0.9735	.88	675	1.1100	-1.66									
160	0.9647	.67	--	Method 139.00	--									
859	0.9610	.60	504	0.0300	.00									
571	0.9585	.52												
Avg	0.9374													
504	0.9100 R	-.99												
675	0.8950	-1.04												
350	0.8715	-1.60												
619	0.2375 s	-17.04												
--	Method 136.00	--												
859	0.2250	.71												

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## Method Evaluation - Z Values Based on 1 Reports

Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs	Method Code	Number Of Labs	Avg Bias of Labs	Std Dev of Biases	Std Dev Within Labs
001.00	8	11.2030	31.88	0.37	010.11	9	0.2264	1.17	0.25
001.03	4	0.0000	1.07	0.12	010.99	12	0.0000	1.02	0.07
001.07	38	-0.0735	1.03	0.20	011.01	69	0.0281	1.00	0.13
001.99	14	0.8304	2.31	0.22	011.99	3	-5.7774	10.04	1.14
002.00	5	-1.1088	2.01	0.29	012.00	6	0.0000	1.04	0.11
002.01	12	0.0064	0.97	0.18	012.04	5	0.0000	1.06	0.03
002.02	8	0.0000	0.96	0.37	012.11	6	0.0000	1.04	0.11
002.04	5	-0.6391	1.70	0.16	013.02	36	-0.0127	0.99	0.12
002.05	20	0.6139	2.96	0.71	013.10	17	0.0000	1.00	0.15
002.06	128	-0.0689	1.50	0.92	013.11	2	12.7433	18.02	2.00
002.08	4	-5.6130	11.25	1.04	013.13	2	0.0000	0.68	0.72
002.10	7	-0.2461	1.15	0.84	013.99	3	0.0000	0.92	0.52
002.11	11	-0.2612	1.10	0.22	015.00	7	0.0000	1.02	0.19
002.99	5	0.6554	1.58	0.77	017.00	4	0.0000	0.93	0.47
003.00	28	0.3095	1.31	0.19	017.99	2	0.0000	1.12	0.34
003.06	25	-0.5272	2.01	0.21	019.00	3	-1.1781	2.19	0.28
003.09	26	0.1793	1.18	0.10	019.01	24	0.0834	1.26	0.34
003.10	31	0.3260	6.36	1.16	019.03	2	1.8385	2.60	0.52
003.11	11	-0.0257	0.98	0.06	019.05	21	0.5868	2.22	0.34
003.12	3	0.0000	1.00	0.40	019.08	2	0.0000	1.19	0.20
003.13	6	2.3125	5.73	1.15	019.09	12	0.3130	1.49	0.47
003.14	14	0.4250	5.67	0.37	019.99	2	44.9013	63.50	1.12
003.99	10	-0.1012	0.94	0.66	020.01	5	-0.1191	0.97	0.25
004.00	26	0.6959	2.66	0.22	021.02	5	0.0000	1.05	0.13
004.03	4	1.1522	2.48	0.24	022.01	11	0.0000	0.95	0.37
004.06	31	0.3220	2.09	0.60	022.03	16	-0.3369	1.51	0.51
004.07	37	0.2981	1.53	0.27	022.05	13	0.1034	2.96	0.49
004.11	10	-0.0889	1.01	0.13	025.01	12	0.0436	0.98	0.23
004.99	8	16.6360	34.72	0.56	025.03	15	1.4803	4.65	0.34
005.00	107	0.1436	1.86	0.64	025.05	13	0.4237	1.79	0.26
005.11	9	0.0000	0.00	0.00	027.01	13	0.0000	0.89	0.48
005.99	12	1.0284	3.70	1.30	027.03	17	-0.0363	0.98	0.29
008.02	14	0.0000	1.01	0.15	027.05	12	0.3279	1.43	0.48
008.08	16	0.0606	1.01	0.15	028.01	10	-1.0349	2.47	0.31
008.99	3	0.0000	1.01	0.40	028.03	15	1.5558	6.10	0.30
009.07	11	0.0000	1.01	0.15	028.05	12	0.3727	1.57	0.38
009.09	12	-0.3749	1.62	0.16	031.01	23	0.0998	1.13	0.40
009.99	3	0.0000	0.54	0.80	031.03	3	0.0000	1.08	0.25
010.03	4	0.0000	1.06	0.16	031.05	32	0.2352	1.79	0.43

## 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
031.99	5	-0.6869	1.73	0.59					
032.01	15	-0.9271	2.89	0.47					
032.02	3	0.0000	0.83	0.61					
032.05	30	-0.2380	2.42	0.43					
033.00	6	0.0000	0.99	0.31					
033.01	20	0.4738	1.62	0.35					
033.03	2	0.0000	1.20	0.19					
033.99	6	-2.4969	2.90	0.43					
035.00	15	0.4907	2.11	0.14					
035.03	28	0.8627	3.23	3.08					
035.05	6	4.1227	11.13	0.45					
036.00	3	0.0000	1.11	0.13					
036.03	18	-0.7464	2.66	0.20					
036.04	2	0.0000	1.22	0.00					
037.01	12	4.3314	14.65	0.68					
037.03	16	2.1942	7.56	0.63					
037.05	13	-0.0121	1.84	0.45					
038.00	8	-0.2208	1.09	1.01					
039.02	2	0.0000	1.20	0.18					
106.02	4	0.6562	1.60	0.10					
109.02	3	0.0000	1.11	0.08					
120.00	8	0.0000	1.02	0.14					
121.00	8	0.0000	1.03	0.08					
122.00	8	0.0000	1.03	0.10					
124.00	8	2.3367	6.68	0.26					
125.00	8	-0.5270	1.77	0.29					
126.00	8	0.0000	1.00	0.23					
127.00	8	0.6301	2.02	0.20					
128.00	8	-0.4292	1.73	0.29					
129.00	8	0.0000	1.02	0.15					
130.00	8	0.0000	1.03	0.11					
131.00	8	0.0000	1.02	0.14					
132.00	8	-0.9090	2.72	0.35					
133.00	6	0.0000	1.04	0.14					
134.00	8	-1.3928	3.42	3.20					
135.00	8	-2.2134	6.06	0.27					
136.01	4	0.0000	1.07	0.15					
137.00	5	0.0000	1.05	0.14					
138.00	8	0.0425	0.97	0.12					