

- Pass 1 Results for 206 Labs - - Pass 2 Results for 205 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, Urea + Am, Urease Method.....	941.04	000.01	1	0.60000	0.00000	0.00000	1	0.60000	0.00000	0.00000
Urea, Misc		000.99	1	0.27500	0.02121	0.03000	1	0.27500	0.02121	0.03000
Method Group 000.XX PCT			2	0.43750	0.18804	0.01500	2	0.43750	0.18804	0.01500
Loss on Drying, Vac 95 deg 5 hr	934.01	001.00	8	9.96562	0.33949	0.14625	7	9.92643	0.33068	0.09286
Loss on Drying, ISO 6496		001.03	4	9.76125	0.19752	0.09250	4	9.76125	0.19752	0.09250
Loss on Drying, LECO		001.05	1	9.60000	0.00000	0.00000	1	9.60000	0.00000	0.00000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	38	9.71982	0.44141	0.13589	36	9.75383	0.42045	0.11372
Loss on Drying, Misc		001.99	16	9.96172	0.29887	0.15056	16	9.96172	0.29887	0.15056
Method Group 001.XX PCT			67	9.80762	0.39955	0.13601	64	9.82274	0.37913	0.11755
Protein, Crude	954.01	002.00	4	16.9075	0.31024	0.10500	4	16.9075	0.31024	0.10500
Protein, Auto Kjel-Foss	976.05	002.01	8	16.6546	0.19302	0.02750	7	16.6160	0.17270	0.01857
Protein, Semiauto Autoanalyzer	976.06	002.02	11	16.7806	0.47491	0.12700	11	16.8065	0.53134	0.08427
Protein, Hach Method		002.03	4	17.0438	0.59088	0.43750	4	17.0438	0.59088	0.43750
Protein, Copper Cat	984.13	002.04	4	16.9225	0.33940	0.11500	4	16.9225	0.33940	0.11500
Protein, Copper, Boric Acid		002.05	22	16.8461	0.21937	0.07524	21	16.8416	0.21995	0.06135
Protein, Combustion Nitrogen Analyzer	990.03	002.06	124	16.9671	0.32897	0.13430	118	16.9483	0.30604	0.10662
Protein, Cu/Ti	988.05	002.08	7	16.6436	0.19111	0.08600	7	16.6436	0.19111	0.08600
Protein, Block dig/distillation		002.10	8	16.5869	0.22937	0.08625	7	16.5779	0.23778	0.05571
Protein, NIR		002.11	12	17.0613	0.32690	0.11583	12	17.0613	0.32690	0.11583
Protein, Misc		002.99	6	17.0483	0.55220	0.07333	7	17.2150	0.66193	0.08143
Method Group 002.XX PCT			210	16.9147	0.34913	0.12227	200	16.8985	0.33102	0.10139
Fat, Eth Ext, Direct	920.39	003.00	25	5.59800	0.16624	0.07570	22	5.61182	0.14150	0.05057
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	5.23500	0.02121	0.03000	1	5.23500	0.02121	0.03000
Fat, In Fish Meal	948.04	003.04	1	5.88500	0.03536	0.05000	1	5.88500	0.03536	0.05000
Fat, Pet Ether		003.06	29	5.52103	0.17103	0.08759	26	5.51481	0.15988	0.05885
Fat, Soxtec, Eth Ext		003.09	31	5.54814	0.16898	0.09692	29	5.54715	0.15915	0.07774
Fat, Soxtec, Pet Ether		003.10	31	5.44584	0.15618	0.06180	30	5.44537	0.15400	0.04986
Fat, NIR		003.11	12	5.37167	0.31710	0.11000	11	5.37182	0.31956	0.06727
Fat, Hexane Ext.		003.12	5	5.53800	0.15017	0.05600	5	5.53800	0.15017	0.05600
Fat, Soxtec, Hexane Ext.		003.13	3	5.30600	0.30030	0.13000	3	5.30600	0.30030	0.13000
Fat, Ankom		003.14	12	5.42833	0.28513	0.19667	12	5.42833	0.28513	0.19667
Fat, Misc		003.99	10	5.56625	0.15205	0.07050	10	5.56625	0.15205	0.07050
Method Group 003.XX PCT			160	5.50540	0.20674	0.09055	150	5.50463	0.20224	0.07299
Fiber, Crude Asbestos Free	962.09	004.00	29	3.48938	0.26129	0.09628	27	3.52804	0.21433	0.08378
Fiber, Sing Filt		004.01	1	4.38500	0.03536	0.05000	1	4.38500	0.03536	0.05000
Fiber, Fritted Glass	978.10	004.03	3	3.92667	0.23780	0.08667	3	3.92667	0.23780	0.08667
Fiber, Fibertec		004.06	33	3.80040	0.33824	0.11378	31	3.81382	0.33996	0.09564
Fiber, ANKOM		004.07	47	3.53114	0.44860	0.12366	46	3.53964	0.44536	0.10809
Fiber, NIR		004.11	10	3.86150	0.16541	0.08100	9	3.89389	0.12830	0.05444

Feed Check Sample No. - 200724 Chicken Starter/Grower, Medicated
 Association of American Feed Control Officials

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Fiber, Misc		004.99	6	3.12988	0.57142	0.10542	6	3.12988	0.57142	0.10542
Method Group 004.XX PCT			129	3.61340	0.41420	0.10939	123	3.62844	0.40918	0.09457
Ash,	942.05	005.00	136	5.36898	0.19642	0.07811	126	5.37815	0.19313	0.05688
Ash, LECO		005.02	1	5.61000	0.02828	0.04000	1	5.61000	0.02828	0.04000
Ash, NIR		005.11	4	5.78375	0.21620	0.07750	5	5.85800	0.24670	0.06400
Ash, Misc		005.99	13	5.35138	0.17251	0.10892	12	5.35567	0.16917	0.08467
Method Group 005.XX PCT			154	5.37984	0.20571	0.08045	143	5.38923	0.20304	0.05967
Fiber, Acid Detergent	973.18	008.02	16	5.32500	0.98232	0.19250	15	5.38267	0.98311	0.15467
Fiber, Acid Detergent-Hach		008.05	1	5.15000	0.07071	0.10000	1	5.15000	0.07071	0.10000
Fiber, Acid Detergent by ANKOM		008.08	25	4.97840	0.56026	0.26080	23	4.90500	0.49622	0.20043
Fiber, Acid Detergent Misc		008.99	6	5.45833	0.72536	0.07000	6	5.45833	0.72536	0.07000
Method Group 008.XX PCT			48	5.15750	0.75863	0.21083	45	5.14344	0.75270	0.16556
Fiber, Neutral Det-No ENZ Pretreat		009.04	1	15.2150	0.19092	0.27000	1	15.2150	0.19092	0.27000
Fiber, Neutral Det-ENZ Pretreat		009.07	16	14.0728	1.60101	0.29813	16	14.0728	1.60101	0.29813
Fiber, Neutral Detergent by ANKOM		009.09	19	13.8000	0.84880	0.39341	18	13.7609	0.83762	0.33471
Fiber, Neutral Det Misc		009.99	2	14.4250	0.43493	0.65000	2	14.4250	0.43493	0.65000
Method Group 009.XX PCT			38	13.9850	1.22239	0.36354	37	13.9710	1.23011	0.33418
Moisture, NIR		010.11	8	10.2750	0.29444	0.09750	8	10.2750	0.29444	0.09750
Moisture, Misc		010.99	15	9.88527	0.68871	0.10947	14	9.93779	0.68041	0.08586
Method Group 010.XX PCT			23	10.0208	0.60811	0.10530	22	10.0604	0.58980	0.09009
Loss on Drying, 135 deg 2 hr	930.15	011.01	76	10.7715	0.30324	0.09233	71	10.7701	0.30495	0.07214
Loss on Drying, High Temp Methods, Misc		011.99	1	10.0200	0.07071	0.10000	1	10.0200	0.07071	0.10000
Method Group 011.XX PCT			77	10.7618	0.31316	0.09243	72	10.7597	0.31542	0.07253
Starch, Polarimetric (Ewers)		012.00	8	39.6019	1.00139	0.52625	7	39.6879	0.96928	0.31571
Starch, Megazyme		012.01	2	36.1860	1.18200	0.71205	2	36.1860	1.18200	0.71205
Starch, Colorimetric (GOP)		012.02	1	38.8700	0.83439	1.18000	1	38.8700	0.83439	1.18000
Starch, Enzymatic		012.03	3	38.0167	0.75933	0.52000	3	38.0167	0.75933	0.52000
Starch, YSI Analyzer		012.04	6	37.5667	2.36005	0.45000	5	37.4560	2.56724	0.22800
Method Group 012.XX PCT			20	38.3754	1.87036	0.55370	18	38.3548	1.94414	0.41745
Fat, Mojonnier, Bak Ext	954.02	013.02	22	6.40114	0.40467	0.14227	20	6.42850	0.37012	0.09200
Fat, Soxtec-Acid Hydrolysis		013.10	19	6.33255	0.37351	0.12026	17	6.37579	0.36290	0.08265
Fat, Ankon-Acid Hydrolysis		013.13	1	6.72500	0.00707	0.01000	1	6.72500	0.00707	0.01000
Fat, Pretreat or extended ext, misc		013.99	1	6.95000	0.21213	0.30000	1	6.95000	0.21213	0.30000
Method Group 013.XX PCT			43	6.39113	0.39454	0.13314	39	6.42650	0.37011	0.09115
Aluminum, ICP		015.00	11	178.577	35.5089	6.04818	10	180.929	36.2236	4.08200
Method Group 015.XX PPM			11	178.577	35.5089	6.04818	10	180.929	36.2236	4.08200
Arsenic, AA, Hydride		016.00	2	0.10025	0.02164	0.02150	2	0.10025	0.02164	0.02150
Arsenic, ICP		016.02	1	0.06500	0.02121	0.03000	1	0.06500	0.02121	0.03000
Method Group 016.XX PPM			3	0.08850	0.02650	0.02433	3	0.08850	0.02650	0.02433

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Boron, ICP		017.00	5	8.27500	0.64467	0.52600	5	8.27500	0.64467	0.52600
Boron, Misc		017.99	1	9.69500	0.00707	0.01000	1	9.69500	0.00707	0.01000
Method Group 017.XX PPM			6	8.51167	0.80347	0.44000	6	8.51167	0.80347	0.44000
Cadmium, ICP		018.02	3	0.09425	0.00690	0.00217	3	0.09425	0.00690	0.00217
Method Group 018.XX PPM			3	0.09425	0.00690	0.00217	3	0.09425	0.00690	0.00217
Calcium, Ox-Mn04 Vol	927.02	019.00	15	0.94331	0.05723	0.02007	14	0.94742	0.05318	0.01064
Calcium, At Abs Spect	968.08	019.01	57	0.93905	0.06482	0.02076	54	0.93704	0.06329	0.01558
Calcium, Semiauto (Autoanalyzer)		019.03	7	0.98579	0.04705	0.01843	7	0.98579	0.04705	0.01843
Calcium, ICP, Dry Ash.....		019.05	45	0.93510	0.03732	0.01590	43	0.93525	0.03709	0.01340
Calcium, EDTA		019.08	4	0.99700	0.04736	0.03250	4	0.99700	0.04736	0.03250
Calcium, ICP, Wet Ash		019.09	26	0.95212	0.04962	0.01882	25	0.94841	0.04598	0.01597
Calcium, Misc		019.99	8	0.92031	0.05268	0.01763	8	0.92031	0.05268	0.01763
Method Group 019.XX PCT			162	0.94297	0.05492	0.01907	155	0.94220	0.05335	0.01526
Chromium, AA.....		020.00	2	2.61000	0.06164	0.05000	2	2.61000	0.06164	0.05000
Chromium, ICP		020.01	7	2.35907	0.42480	0.15371	7	2.35907	0.42480	0.15371
Chromium, Misc		020.99	2	2.44250	0.58443	0.09500	2	2.44250	0.58443	0.09500
Method Group 020.XX PPM			11	2.41986	0.41291	0.12418	11	2.41986	0.41291	0.12418
Cobalt, AA	968.08	021.01	1	0.70000	0.14142	0.20000	1	0.70000	0.14142	0.20000
Cobalt, ICP		021.02	12	0.67596	0.15244	0.04100	12	0.67596	0.15244	0.04100
Cobalt, Misc.		021.99	1	1.00000	0.00000	0.00000	1	1.00000	0.00000	0.00000
Method Group 021.XX PPM			14	0.70082	0.16648	0.04943	14	0.70082	0.16648	0.04943
Copper, Color	947.03	022.00	1	14.5000	0.70711	1.00000	1	14.5000	0.70711	1.00000
Copper, AA	968.08	022.01	26	15.0001	1.28884	0.77023	26	15.0001	1.28884	0.77023
Copper, ICP, Dry Ash	968.08	022.03	31	14.1536	1.17575	0.60348	28	14.2460	1.07335	0.34946
Copper, ICP, Wet Ash	968.08	022.05	27	14.8074	1.43463	0.65556	26	14.8004	1.44291	0.58923
Copper, Misc		022.99	2	14.5350	1.31804	2.22000	2	14.5350	1.31804	2.22000
Method Group 022.XX PPM			87	14.6222	1.33167	0.71120	83	14.6659	1.29502	0.60929
Fluorine, Ion Sel Elect	975.08	023.01	1	0.00300	0.00000	0.00000	1	0.00300	0.00000	0.00000
Iron, AA	968.08	025.01	25	248.565	19.4447	8.17520	24	248.653	19.6308	7.33000
Iron, ICP, Dry Ash	968.08	025.03	35	246.874	18.1620	6.54463	35	246.874	18.1620	6.54463
Iron, ICP, Wet Ash	968.08	025.05	24	251.870	24.4955	8.47750	22	252.516	24.3085	5.77727
Iron, Misc		025.99	3	247.200	20.2941	17.1333	3	247.200	20.2941	17.1333
Method Group 025.XX PPM			87	248.749	20.4399	7.91152	84	248.872	20.3596	6.94621
Lead,		026.00	2	0.09500	0.02380	0.02000	2	0.09500	0.02380	0.02000
Lead, Misc		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 026.XX PPM			3	0.06333	0.05241	0.01333	3	0.06333	0.05241	0.01333
Magnesium, AA	968.08	027.01	26	0.20625	0.00891	0.00552	24	0.20615	0.00826	0.00368
Magnesium, ICP, Dry Ash	968.08	027.03	38	0.20507	0.00847	0.00454	36	0.20517	0.00810	0.00343
Magnesium, ICP, Wet Ash	968.08	027.05	23	0.20662	0.00741	0.00279	20	0.20689	0.00761	0.00156

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Magnesium, Misc.		027.99	4	0.20163	0.00650	0.00375	4	0.20163	0.00650	0.00375
Method Group 027.XX PCT			91	0.20565	0.00828	0.00434	84	0.20569	0.00798	0.00307
Manganese, AA	968.08	028.01	29	99.2027	9.06542	3.44072	29	98.1824	9.91594	3.13797
Manganese, ICP, Dry Ash	968.08	028.03	33	102.190	6.59469	4.57736	31	101.847	6.25389	3.84042
Manganese, ICP, Wet Ash	968.08	028.05	26	104.014	7.85321	4.96731	26	104.014	7.85321	4.96731
Manganese, Misc.		028.99	5	101.484	14.4790	4.24000	5	101.484	14.4790	4.24000
Method Group 028.XX PPM			93	101.730	8.44684	4.31381	90	101.566	8.39699	3.94649
Mercury,		029.00	1	0.00450	0.00071	0.00100	1	0.00450	0.00071	0.00100
Nitrate, Color	968.07	030.00	1	53.0000	1.41421	2.00000	1	53.0000	1.41421	2.00000
Phosphorus, Vol	964.06	031.00	1	0.77225	0.01817	0.02570	1	0.77225	0.01817	0.02570
Phosphorus, Photometric	965.17	031.01	54	0.76810	0.02302	0.00723	51	0.77004	0.01970	0.00589
Phosphorus, GQMP (2.028)	964.06	031.02	5	0.76469	0.03829	0.01226	5	0.76469	0.03829	0.01226
Phosphorus, Autoanalyzer		031.03	10	0.76086	0.03317	0.01156	10	0.76086	0.03317	0.01156
Phosphorus, ICP		031.05	71	0.77465	0.03284	0.01438	69	0.77443	0.03279	0.01291
Phosphorus, Hach Method		031.06	4	0.74925	0.01720	0.02350	4	0.74925	0.01720	0.02350
Phosphorus, Misc		031.99	8	0.79481	0.03714	0.02313	8	0.79481	0.03714	0.02313
Method Group 031.XX PCT			153	0.77149	0.03051	0.01237	148	0.77208	0.02971	0.01130
Potassium, AA	975.03	032.01	25	0.81094	0.05154	0.02234	24	0.81142	0.05187	0.01981
Potassium, Flame Emission	956.01	032.02	8	0.83572	0.04558	0.01726	8	0.83572	0.04558	0.01726
Potassium, ICP		032.05	60	0.82322	0.04279	0.01501	56	0.82548	0.04105	0.01113
Potassium, Misc		032.99	3	0.81500	0.03209	0.01000	3	0.81500	0.03209	0.01000
Method Group 032.XX PCT			96	0.82081	0.04540	0.01695	91	0.82232	0.04459	0.01392
Salt, Sol Cl	943.01	033.00	20	0.39410	0.03969	0.01280	19	0.39642	0.03762	0.00821
Salt, Poten Cl	969.10	033.01	38	0.41494	0.02461	0.00831	37	0.41430	0.02432	0.00727
Salt, Quantab		033.03	8	0.41250	0.06340	0.03000	9	0.39389	0.08067	0.03000
Salt, Ion Sel Electrode		033.05	2	0.40750	0.01708	0.01500	2	0.40750	0.01708	0.01500
Salt, Misc		033.99	8	0.38413	0.04720	0.02350	8	0.38413	0.04720	0.02350
Method Group 033.XX PCT			76	0.40576	0.03830	0.01355	74	0.40607	0.03753	0.01193
Selenium, Fluor	969.06	034.01	2	0.47700	0.01740	0.01400	2	0.47700	0.01740	0.01400
Selenium, AA, Hydride		034.04	5	0.46010	0.01493	0.01860	5	0.46010	0.01493	0.01860
Selenium, ICP		034.05	3	0.42500	0.03507	0.00333	3	0.42500	0.03507	0.00333
Method Group 034.XX PPM			10	0.45295	0.02954	0.01310	10	0.45295	0.02954	0.01310
Sodium, AA		035.00	22	0.12896	0.00966	0.00672	22	0.12896	0.00966	0.00672
Sodium, Ion Sel Electrode		035.01	5	0.13712	0.01914	0.00472	5	0.13712	0.01914	0.00472
Sodium, ICP		035.03	55	0.11972	0.00982	0.00433	53	0.11956	0.00970	0.00364
Sodium, Flame Emission	956.01	035.05	11	0.12398	0.02074	0.00375	11	0.12398	0.02074	0.00375
Sodium, Misc		035.99	5	0.12640	0.01196	0.00240	4	0.12363	0.01159	0.00075
Method Group 035.XX PCT			98	0.12350	0.01300	0.00472	95	0.12334	0.01300	0.00430
Sulfur, (Gravimetric)		036.00	1	0.25000	0.00000	0.00000	1	0.25000	0.00000	0.00000

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Sulfur, ICP		036.03	21	0.25917	0.01632	0.00468	20	0.25813	0.01589	0.00401
Sulfur, LECO		036.04	3	0.26833	0.01472	0.00333	3	0.26833	0.01472	0.00333
Sulfur, Misc		036.99	1	0.26500	0.00707	0.01000	1	0.26500	0.00707	0.01000
Method Group 036.XX PCT			26	0.26010	0.01581	0.00455	25	0.25930	0.01549	0.00401
Zinc, AA	968.08	037.01	32	125.574	8.08089	3.24509	32	125.574	8.08089	3.24509
Zinc, ICP, Dry Ash	968.08	037.03	36	123.322	7.70673	3.33842	34	123.517	7.68153	2.71147
Zinc, ICP, Wet Ash	968.08	037.05	27	124.682	9.34154	4.28444	25	124.463	8.37941	2.24520
Zinc, Misc		037.99	4	117.973	8.21614	4.95000	4	117.973	8.21614	4.95000
Method Group 037.XX PPM			99	124.204	8.40821	3.63137	95	124.225	8.11507	2.86277
Molybdenum, ICP		038.00	8	1.53209	0.23674	0.13894	7	1.48357	0.19025	0.09286
Molybdenum, Misc		038.99	1	1.77500	0.03536	0.05000	1	1.77500	0.03536	0.05000
Method Group 038.XX PPM			9	1.55908	0.23600	0.12906	8	1.52000	0.20337	0.08750
Nickel, AA		039.01	1	1.40000	0.00000	0.00000	1	1.40000	0.00000	0.00000
Nickel, ICP		039.02	5	1.52610	0.67650	0.18120	4	1.80638	0.30814	0.02900
Method Group 039.XX PPM			6	1.50508	0.61388	0.15100	5	1.72510	0.32126	0.02320
Barium, ICP		040.00	1	2.83000	0.04243	0.06000	1	2.83000	0.04243	0.06000
Vanadium, ICP		041.00	3	1.96525	0.13186	0.03383	3	1.96525	0.13186	0.03383
Method Group 041.XX PPM			3	1.96525	0.13186	0.03383	3	1.96525	0.13186	0.03383
Amprolium, Color	961.24	045.00	10	0.01298	0.00114	0.00021	10	0.01298	0.00114	0.00021
Amprolium, HPLC		045.02	7	0.01133	0.00089	0.00019	7	0.01133	0.00089	0.00019
Method Group 045.XX PCT			17	0.01230	0.00132	0.00020	17	0.01230	0.00132	0.00020
Niacin, Micro	944.13	102.01	1	26.3500	0.49497	0.70000	1	26.3500	0.49497	0.70000
Pantothenic Acid, Microbiological	945.74	103.01	1	8.53000	0.14142	0.20000	1	8.53000	0.14142	0.20000
Riboflavin, Fluorometric	970.65	104.00	3	6.09167	0.52358	0.25000	3	6.09167	0.52358	0.25000
Riboflavin, HPLC		104.03	1	5.05500	0.02121	0.03000	1	5.05500	0.02121	0.03000
Method Group 104.XX MG/LB			4	5.83250	0.65281	0.19500	4	5.83250	0.65281	0.19500
Thiamine, HPLC		105.00	1	2.58500	0.10607	0.15000	1	2.58500	0.10607	0.15000
Vitamin A, Color	974.29	106.00	1	6.80000	0.56569	0.80000	1	6.80000	0.56569	0.80000
Vitamin A, HPLC		106.02	19	5.85471	1.56613	0.47269	19	5.85471	1.56613	0.47269
Vitamin A, Misc		106.99	1	5.74500	0.02121	0.03000	1	5.74500	0.02121	0.03000
Method Group 106.XX KU/LB			21	5.89450	1.50461	0.46720	21	5.89450	1.50461	0.46720
Vitamin B12,	952.20	107.00	1	13.4000	0.28284	0.40000	1	13.4000	0.28284	0.40000
Vitamin D3, HPLC		108.02	2	1.93000	0.74018	0.06000	2	1.93000	0.74018	0.06000
Method Group 108.XX KU/LB			2	1.93000	0.74018	0.06000	2	1.93000	0.74018	0.06000
Vitamin E, HPLC		109.02	12	43.6454	8.09322	2.78958	12	43.6454	8.09322	2.78958
Method Group 109.XX MG/KG			12	43.6454	8.09322	2.78958	12	43.6454	8.09322	2.78958
Pyridoxine, (Vitamin B6)	961.15	112.00	1	5.74500	0.55861	0.79000	1	5.74500	0.55861	0.79000
Folic Acid,	944.12	113.01	1	0.59950	0.09970	0.14100	1	0.59950	0.09970	0.14100
Biotin, Microbiological		114.01	1	0.23400	0.00000	0.00000	1	0.23400	0.00000	0.00000

- Pass 1 Results for 206 Labs - - Pass 2 Results for 205 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
Alanine, Post-col Ninhydrin Der	994.12	120.00	10	0.97450	0.03435	0.01800	9	0.97333	0.03406	0.01222
Method Group 120.XX PCT			10	0.97450	0.03435	0.01800	9	0.97333	0.03406	0.01222
Arginine, Post-col Ninhydrin Der	994.12	121.00	10	0.96505	0.03412	0.01350	10	0.96505	0.03412	0.01350
Method Group 121.XX PCT			10	0.96505	0.03412	0.01350	10	0.96505	0.03412	0.01350
Aspartic, Post-col Ninhydrin Der	994.12	122.00	11	1.43965	0.04986	0.01505	10	1.43687	0.05077	0.01105
Method Group 122.XX PCT			11	1.43965	0.04986	0.01505	10	1.43687	0.05077	0.01105
Cysteine/Cystine, PAO Post-col Ninhydrin Der	994.12	124.00	8	0.31556	0.02975	0.00344	8	0.31556	0.02975	0.00344
Cysteine/Cystine, PAO Post-col OPA Der		124.02	2	0.28175	0.01406	0.00450	2	0.28175	0.01406	0.00450
Cysteine/Cystine, PAO Pre-col AQC Der		124.05	1	0.33500	0.00707	0.01000	1	0.33500	0.00707	0.01000
Method Group 124.XX PCT			11	0.31118	0.02994	0.00423	11	0.31118	0.02994	0.00423
Glutamic, Post-col Ninhydrin Der	994.12	125.00	11	3.04199	0.08678	0.03095	11	3.04199	0.08678	0.03095
Method Group 125.XX PCT			11	3.04199	0.08678	0.03095	11	3.04199	0.08678	0.03095
Glycine, Post-col Ninhydrin Der	994.12	126.00	11	0.70176	0.01661	0.00715	11	0.70176	0.01661	0.00715
Method Group 126.XX PCT			11	0.70176	0.01661	0.00715	11	0.70176	0.01661	0.00715
Histidine, Post-col Ninhydrin Der	994.12	127.00	11	0.47349	0.04763	0.01045	10	0.46384	0.03724	0.00749
Method Group 127.XX PCT			11	0.47349	0.04763	0.01045	10	0.46384	0.03724	0.00749
Isoleucine, Post-col Ninhydrin Der	994.12	128.00	11	0.60050	0.04728	0.01114	11	0.60050	0.04728	0.01114
Method Group 128.XX PCT			11	0.60050	0.04728	0.01114	11	0.60050	0.04728	0.01114
Leucine, Post-col Ninhydrin Der	994.12	129.00	10	1.57052	0.04280	0.01247	10	1.57052	0.04280	0.01247
Method Group 129.XX PCT			10	1.57052	0.04280	0.01247	10	1.57052	0.04280	0.01247
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	14	0.80063	0.03879	0.00985	14	0.80063	0.03879	0.00985
L-Lysine, Pre-col OPA Der		130.01	1	0.86000	0.01414	0.02000	1	0.86000	0.01414	0.02000
L-Lysine, Pre-col AQC Der		130.05	3	0.84233	0.02537	0.01600	3	0.84233	0.02537	0.01600
Method Group 130.XX PCT			18	0.81088	0.04062	0.01144	18	0.81088	0.04062	0.01144
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	10	0.32330	0.03648	0.01496	9	0.31700	0.03100	0.00996
Methionine, PAO Post-col OPA Der		131.02	2	0.33400	0.02814	0.00600	2	0.33400	0.02814	0.00600
Methionine, PAO Pre-col AQC Der		131.05	2	0.36500	0.05260	0.01000	2	0.36500	0.05260	0.01000
Methionine, Misc		131.99	1	0.25000	0.00000	0.00000	1	0.25000	0.00000	0.00000
Method Group 131.XX PCT			15	0.32540	0.04315	0.01211	14	0.32150	0.04118	0.00869
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	11	0.78293	0.03083	0.00847	10	0.78572	0.03061	0.00632
Method Group 132.XX PCT			11	0.78293	0.03083	0.00847	10	0.78572	0.03061	0.00632
Proline, Post-col Ninhydrin Der	994.12	133.00	10	1.13716	0.06466	0.02839	10	1.13716	0.06466	0.02839
Method Group 133.XX PCT			10	1.13716	0.06466	0.02839	10	1.13716	0.06466	0.02839
Serine, Post-col Ninhydrin Der	994.12	134.00	11	0.77706	0.05747	0.01276	11	0.77706	0.05747	0.01276
Method Group 134.XX PCT			11	0.77706	0.05747	0.01276	11	0.77706	0.05747	0.01276
Threonine, Post-col Ninhydrin Der	994.12	135.00	10	0.61800	0.01689	0.00980	10	0.61800	0.01689	0.00980
Threonine, Pre-col AQC Der		135.05	1	0.60000	0.00000	0.00000	1	0.60000	0.00000	0.00000
Method Group 135.XX PCT			11	0.61636	0.01692	0.00891	11	0.61636	0.01692	0.00891
Tryptophan, Alka-Hydrol Post-col Ninhydrin Der	988.15	136.00	1	0.17100	0.00707	0.01000	1	0.17100	0.00707	0.01000

Feed Check Sample No. - 200724 Chicken Starter/Grower, Medicated
 Association of American Feed Control Officials

- Pass 1 Results for 206 Labs - - Pass 2 Results for 205 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	0.18534	0.01351	0.00562	3	0.18045	0.01005	0.00083
Tryptophan, Misc		136.99	2	0.16725	0.00377	0.00250	2	0.16725	0.00377	0.00250
Method Group 136.XX PCT			7	0.17812	0.01348	0.00536	6	0.17448	0.00975	0.00292
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	8	0.58113	0.05358	0.01046	7	0.57836	0.05651	0.00667
Method Group 137.XX PCT			8	0.58113	0.05358	0.01046	7	0.57836	0.05651	0.00667
Valine, Post-col Ninhydrin Der	994.12	138.00	11	0.76039	0.06748	0.01675	11	0.76039	0.06748	0.01675
Method Group 138.XX PCT			11	0.76039	0.06748	0.01675	11	0.76039	0.06748	0.01675
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.04500	0.00707	0.01000	1	0.04500	0.00707	0.01000
Aflatoxin, Neogen Vera-Tox		300.01	1	4.80000	0.00000	0.00000	1	4.80000	0.00000	0.00000

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 000.01 --			-- Method 001.07 --			-- Method 001.99 --			-- Method 002.02 --			-- Method 002.05 --		
278	0.6000	.00	129	9.9150	.52	305	11.215 s	4.19	613	18.525 S	3.24	194	17.020	.81
			571	9.9700	.51	541	10.455	1.83	152	18.250 S	2.72	689	16.950	.54
-- Method 000.99 --			353	9.9200	.40	681	10.365	1.58	048	18.120 S	2.47	651	16.906	.40
265	0.2750	-.71	199	9.7800	.36	405	10.270	1.05	639	17.835 R	2.01	623	16.864	.19
			679	9.9000	.35	665	10.205	.92	297	17.130	.63	028	16.850	.19
-- Method 001.00 --			639	9.8750	.29	505	10.135	.63	307	17.100	.55	633	16.846	.04
504	10.240 R	1.23	588	9.8650	.26	096	10.100	.46	712	17.060	.48	663	16.850	.04
001	10.315	1.18	414	9.8550	.25	672	9.9900	.22	Avg	16.675		Avg	16.842	
509	10.310	1.16	Avg	9.7538		676	10.028	.22	033	16.750	-.12	083	16.805	-.20
169	10.025	.31	178	9.7500	-.12	Avg	9.9617		669	16.690	-.24	552	16.810	-.23
Avg	9.9264		689	9.7000	-.13	656	9.9400	-.07	043	16.615	-.36	350	16.730	-.54
027	9.8100	-.36	693	9.6475	-.26	357	9.8950	-.27	187	16.510	-.56	722	16.651	-.87
720	9.7350	-.58	609	9.6500	-.27	630	9.8300	-.52	042	16.445	-.69	177	16.610	-1.05
309	9.9150	-.65	083	9.6250	-.31	038	9.7400	-.75	036	16.247	-1.09	354	16.590	-1.14
029	9.3750	-1.67	049	9.6450	-.36	619	9.7000	-.88	169	16.205	-1.13	140	16.575	-1.21
			669	9.5950	-.39	631	9.6600	-1.02				178	16.550	-1.35
-- Method 001.03 --			297	9.6000	-.44	719	9.5500	-1.39	-- Method 002.03 --			596	16.450	-1.79
688	9.9500	.99	187	9.5500	-.48	615	9.5250	-1.54	681	17.520	.82			
663	9.8100	.25	671	9.5400	-.51	536	8.8655 s	-3.67	265	17.400	.63	-- Method 002.06 --		
567	9.8000	.20	640	9.5400	-.52				Avg	17.044		687	18.040 s	3.57
Avg	9.7613		581	9.4850	-.64	-- Method 002.00 --			536	16.960	-.86	108	18.000 s	3.44
686	9.4850	-1.56	278	9.4200	-.80	679	17.265	1.16	686	16.295	-1.30	417	18.000 s	3.44
			045	9.4000	-.91	015	17.000	.31				541	17.810	2.82
-- Method 001.05 --			177	9.3300	-1.04	Avg	16.908		-- Method 002.04 --			511	17.790 A	2.82
610	9.6000	.00	307	9.3250 R	-1.24	353	16.875	-.51	509	18.390 S	4.45	554	17.765	2.67
			015	9.2450	-1.28	199	16.490	-1.35	405	17.300	1.12	014	17.715 R	2.61
-- Method 001.07 --			074	8.8900 R	-2.13				504	17.040	.35	609	17.575	2.05
413	90.250 s	191.45	366	8.7850	-2.30	-- Method 002.01 --			Avg	16.923		726	17.180 R	1.92
345	11.385 s	3.88	675	8.5900	-2.77	685	17.635 s	5.91	557	16.900	-.42	616	17.490	1.78
557	10.845	2.60	618	8.6000 s	-3.13	666	16.925 R	1.81	596	16.450	-1.40	645	17.450	1.71
130	10.421	1.66	591	8.3600 S	-3.32	652	16.800	1.07	591	15.680 S	-3.67	692	17.400 R	1.66
559	10.205	1.08	140	8.0050 s	-4.16	710	16.790	1.01				529	17.420	1.55
616	10.180	1.02				653	16.700	.50	-- Method 002.05 --			504	17.380	1.50
590	10.155	.97	-- Method 001.08 --			Avg	16.616		658	17.275	1.97	074	17.405	1.49
098	10.160	.97	560	7.5150 S	.00	672	16.600	-.09	622	17.138	1.37	011	17.405	1.49
550	9.9950	.70				043	16.600	-.11	620	17.106	1.21	185	17.365	1.36
089	10.040	.68				714	16.547	-.40	305	17.065	1.12	263	17.354	1.33
048	10.020	.63				656	16.275	-1.98	039	16.940 R	.95	363	17.325	1.25
004	9.9400	.58							621	17.035	.88	121	17.325	1.24

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 002.06	--	--	Method 002.06	--	--	Method 002.06	--	--	Method 002.08	--	--	Method 003.00	--
345	17.305	1.17	520	17.020	.27	505	16.745	-.68	563	16.495	-.79	353	6.5100 s	6.38
033	17.300	1.17	035	17.015	.25	001	16.735	-.71	309	16.425	-1.15	194	6.4500 s	5.92
130	17.094 R	1.13	138	17.015	.25	129	16.710	-.78				596	6.4000 s	5.57
671	17.275	1.12	008	16.995	.24	660	16.765	-.81	--	Method 002.10	--	354	5.8650	1.79
037	17.265	1.10	132	16.965	.22	358	16.715	-.81	629	16.930	1.48	190	5.8350	1.71
047	17.230	1.01	003	16.960	.20	646	16.695	-.85	688	16.650 R	.70	106	5.8300	1.54
175	17.250	1.00	065	16.980	.12	512	16.685	-.88	546	16.720	.67	175	5.6750 R	1.12
144	17.250	1.00	051	16.960	.11	353	16.675	-.89	619	16.700	.51	265	5.7550	1.03
647	17.240	.95	Avg	16.948		038	16.675	-.89	723	16.640	.27	309	5.6450 R	.91
168	17.215	.88	027	16.935	-.05	550	16.718	-.93	Avg	16.578		307	5.7000	.62
017	17.200	.85	407	16.925	-.08	693	16.662	-.94	596	16.450	-.58	017	5.6800	.60
202	17.205	.84	009	16.915	-.11	159	16.661	-.94	675	16.420	-.67	032	5.6900	.56
610	17.200	.82	674	16.920	-.16	141	16.704	-.96	631	16.185	-1.66	039	5.6801	.48
619	17.200	.82	045	16.890	-.21	229	16.650	-.98				300	5.6250	.40
122	17.150	.78	668	16.886	-.22	208	16.650	-.99	--	Method 002.11	--	048	5.6150	.11
672	17.150	.68	590	16.890	-.23	018	16.640	-1.01	032	17.685	1.91	509	5.6200	.09
574	17.140	.65	354	16.865	-.28	720	16.650	-1.14	178	17.300	.79	Avg	5.6118	
171	17.100	.59	573	16.914	-.30	226	16.600	-1.18	688	17.300	.73	152	5.6050	-.18
013	17.105	.58	205	16.860	-.30	598	16.600	-1.20	724	17.190	.41	026	5.5800	-.24
026	17.120	.56	106	16.855	-.31	110	16.570	-1.24	665	17.150	.33	035	5.5800	-.24
019	17.005	.54	278	16.850	-.36	100	16.535	-1.47	631	17.135	.32	164	5.5600	-.37
709	17.100	.52	725	16.850	-.36	615	16.490	-1.50	011	17.150	.31	129	5.5600	-.46
098	17.100	.50	199	16.840	-.37	242	16.470	-1.57	Avg	17.061		563	5.5500	-.56
684	17.095	.49	089	16.835	-.37	596	16.450	-1.64	672	16.980	-.29	027	5.4850	-.93
571	17.094	.49	096	16.920	-.37	309	16.480	-1.66	297	16.970	-.41	187	5.4800	-.97
010	16.985	.49	042	16.845	-.38	686	16.425	-1.73	588	16.775	-.91	033	5.4350	-1.26
034	17.090	.47	589	16.855	-.41	039	16.848 R	-1.79	567	16.650	-1.27	616	5.3950	-1.53
160	17.080	.44	357	16.810	-.45	119	16.365	-1.93	596	16.450	-1.88	615	5.3350	-1.97
164	17.075	.44	366	16.810	-.45	539	16.140	-2.65	640	14.725 s	-7.22	132	5.1700 A	-3.24
029	17.035	.40	673	16.800	-.48	294	16.090	-2.81				726	5.3000 s	-6.93
413	17.050	.37	300	16.800	-.49	527	15.600 s	-4.41	--	Method 002.99	--	527	3.5000 s	-14.93
650	16.960	.36	004	16.795	-.50				655	18.215 S	1.51			
588	17.030	.35	559	16.795	-.54	--	Method 002.08	--	643	17.830	.93	--	Method 003.01	--
670	17.055	.35	510	16.800	-.58	062	16.951	1.61	719	17.750	.81	504	5.2350	.71
148	17.050	.33	036	16.765	-.60	610	16.800	.97	Avg	17.048				
021	17.035	.32	298	16.760	-.62	208	16.700	.30	676	16.765	-.68	--	Method 003.04	--
049	17.000	.31	414	16.750	-.65	Avg	16.644		724	16.680	-.81	681	5.8850	.71
190	17.035	.29	233	16.750	-.65	414	16.625	-.66	640	16.640	-.88			
618	16.958	.29	567	16.750	-.67	160	16.510	-.71	630	16.625	-.89			

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 003.06	--	--	Method 003.09	--	--	Method 003.10	--	--	Method 003.11	--	--	Method 003.99	--
689	6.0500 s	3.48	226	5.7000	1.15	062	5.5230	.51	588	5.0150	-1.12	676	5.6375	.47
557	5.8450	2.07	656	5.6150	.79	693	5.4700	.48	672	5.0050	-1.16	719	5.5950	.41
074	5.7600 R	1.87	140	5.6600	.73	345	5.5000	.48				047	5.6000	.22
588	5.7400	1.44	354	5.6300	.52	034	5.5000	.44	--	Method 003.12	--	Avg	5.5662	
511	5.6150 R	1.32	722	5.6036	.42	672	5.5000	.35	670	5.7250	1.26	671	5.5550	-.08
688	5.6500	.90	510	5.6000	.33	233	5.4750	.25	357	5.6500	.82	710	5.4850	-.54
297	5.6450	.88	202	5.5950	.30	Avg	5.4454		Avg	5.5380		546	5.4600	-.70
529	5.6500	.87	Avg	5.5472		042	5.4300	-.12	171	5.5200	-.29	536	5.4700	-.78
684	5.6450	.83	001	5.5400	-.08	178	5.4000	-.29	414	5.4650	-.50	725	5.3000	-1.87
647	5.6050	.73	038	5.5350	-.17	119	5.4000	-.30	646	5.3300	-1.39			
407	5.6150	.69	013	5.5250	-.21	144	5.3950	-.33				--	Method 004.00	--
581	5.6100	.62	263	5.5060	-.26	208	5.3900	-.38	--	Method 003.13	--	345	4.7000 s	5.55
229	5.5700	.47	723	5.4800	-.43	629	5.3850	-.39	028	5.5200	.71	557	4.6100 s	5.06
709	5.5650	.35	653	5.5150	-.46	098	5.3900	-.48	205	5.4530	.49	596	3.9000	1.80
640	5.5300	.33	590	5.5250	-.49	100	5.3700	-.49	Avg	5.3060		048	3.8100	1.33
552	5.5150	.28	651	5.4640	-.57	520	5.3550	-.61	660	4.9450	-1.32	511	3.8000	1.27
613	5.5200	.07	350	5.4563	-.58	089	5.3400	-.68				265	3.7750	1.25
Avg	5.5148		674	5.4550	-.58	363	5.3250	-.78	--	Method 003.14	--	169	3.7300	.95
199	5.5000	-.16	633	5.4561	-.61	242	5.3100	-.88	185	6.0100	2.07	190	3.7100	.91
122	5.4850	-.24	620	5.4835	-.61	651	5.3100	-.89	019	5.5200	1.13	164	3.6500	.61
009	5.4750	-.29	305	5.4350	-.74	051	5.3100	-1.06	021	5.5650	.63	034	3.6550	.60
669	5.4700	-.31	675	5.4300	-.74	720	5.1650	-1.82	414	5.5700	.52	559	3.6250	.54
148	5.4550	-.38	121	5.4200	-.88	679	5.1200	-2.11	686	5.4800	.18	009	3.6000	.47
169	5.4500	-.42	673	5.4000	-.92	619	4.9100 s	-3.48	144	5.4650	.14	309	3.6250	.46
159	5.4450	-.44	413	5.4500	-1.12	609	4.3950 s	-6.87	598	5.4500	.08	132	3.5950	.35
185	5.3750	-.87	358	5.3650 R	-1.59	623	2.8821 s	-16.65	Avg	5.4283		563	3.5750	.25
559	5.3700	-.91	714	5.1430	-2.55				110	5.3550	-.26	509	3.5550	.14
294	5.3300	-1.18				--	Method 003.11	--	278	5.3000	-.45	042	3.5450	.11
567	5.3500 R	-1.39	--	Method 003.10	--	297	5.8650	1.55	175	5.1050	-1.14	199	3.5450	.08
574	5.2550	-1.63	591	6.7450 s	8.44	032	5.7850	1.29	049	5.1450	-1.34	Avg	3.5280	
621	5.0700	-2.78	596	5.8500	2.65	665	5.7500	1.20	550	5.1750	-1.36	510	3.5000	-.13
658	4.6500 s	-5.41	639	5.7700	2.12	567	5.6000	.78				208	3.5200	-.19
			108	5.4600 R	1.37	011	5.4000	.09	--	Method 003.99	--	159	3.4320	-.45
--	Method 003.09	--	366	5.5800	.90	Avg	5.3718		655	7.6250 s	14.09	354	3.3700	-.75
029	5.8950	2.19	618	5.5764	.88	688	5.2500	-.41	417	6.7750 s	7.99	171	3.3850	-.78
685	5.8550	1.98	160	5.5750	.86	724	5.1800	-.61	652	6.6000 s	6.80	298	3.3300	-.93
098	5.7600 R	1.84	045	5.5700	.83	631	5.1400	-.73	724	6.4500 s	5.81	647	3.3050	-1.06
004	5.7850	1.49	298	5.5500	.68	178	5.1000	-.85	630	5.7900	1.48	666	3.2600	-1.35
505	5.7100	1.20	573	5.5265	.63	640	5.3700 R	-.91	631	5.7700	1.40	194	3.2200	-1.44

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 004.00	--	--	Method 004.06	--	--	Method 004.07	--	--	Method 004.99	--	--	Method 005.00	--
504	3.1650	-1.76	656	3.6350	-.56	414	3.4750	-.40	655	5.5100 S	4.17	666	5.4950	.75
353	3.1850 R	-1.89	672	3.6500	-.65	021	3.4000	-.40	676	4.1193	1.73	187	5.5150	.72
175	3.0750	-2.12	027	3.6200	-.66	567	3.3500	-.44	724	3.5000	.65	557	5.5150	.71
726	2.9050 s	-3.28	689	3.7000 R	-.68	505	3.3250	-.49	Avg	3.1299		669	5.5050	.66
226	2.7500 A	-3.64	508	3.4972	-.93	631	3.3050	-.53	598	3.0800	-.15	175	5.4950	.62
			710	3.4700	-1.02	242	3.2850	-.58	640	2.8550	-.54	613	5.4900	.60
--	Method 004.01	--	098	3.4850 R	-1.12	686	3.2750	-.60	629	2.7500	-.67	651	5.4870	.56
366	4.3850	.71	610	3.4000	-1.22	026	3.2700	-.61	719	2.4750	-1.15	563	5.4850	.56
			591	3.3550	-1.35	035	3.2650	-.62				686	5.4700	.50
--	Method 004.03	--	688	3.3500	-1.37	646	3.2500	-.66	--	Method 005.00	--	004	5.3900	.47
679	4.1700	1.02	670	3.0500	-2.25	100	3.1850	-.80	639	7.2150 s	9.51	671	5.4650	.47
045	3.9450	.08				122	3.1750	-.82	643	5.9250	2.83	653	5.4650	.46
Avg	3.9267		--	Method 004.07	--	229	3.1600	-.85	520	5.8450	2.42	305	5.4650	.46
619	3.6650	-1.20	639	4.8350	2.91	008	3.2000	-.86	726	5.8050	2.29	178	5.4500	.45
			407	4.5000	2.16	674	3.1550	-.87	185	5.7600	1.98	645	5.4500	.45
--	Method 004.06	--	294	4.3500	1.82	307	3.1500	-.88	655	5.7550	1.96	413	5.4500	.45
613	4.6500	2.46	019	4.2150	1.55	013	3.1100	-.96	720	5.7400	1.87	647	5.4550	.44
552	4.3750	1.70	278	4.2000	1.50	413	3.1000	-1.01	591	5.6700	1.51	354	5.4600	.43
720	4.3200	1.55	581	4.1300	1.34	202	2.9800	-1.26	679	5.6650	1.49	148	5.4600	.42
609	4.2450	1.27	669	4.1200	1.31	536	3.1400 R	-1.30	226	5.6500	1.43	590	5.4550	.42
675	4.1450	.99	144	4.0800	1.22	160	2.8700	-1.50	307	5.6500	1.42	646	5.4550	.40
673	4.1000	.89	033	3.9700	.98	004	2.8300	-1.59	108	5.6450	1.38	620	5.4450	.38
029	4.0350	.68	028	3.9500	.93				689	5.6200	1.28	045	5.4500	.38
653	3.9950	.58	011	3.9150	.85	--	Method 004.11	--	567	5.6000	1.15	529	5.4500	.37
205	3.9750	.49	096	3.6400	.48	011	4.1000	1.61	640	5.6000	1.15	350	5.4204	.33
140	3.8950	.41	709	3.7000	.39	665	4.0200	1.00	675	5.5950	1.13	656	5.4350	.32
722	3.9011	.33	185	3.7087	.38	672	4.0000	.84	722	5.5925	1.11	407	5.4400	.32
038	3.8350	.32	708	3.6700	.33	567	3.9500	.59	674	5.4300 R	1.02	588	5.4350	.30
723	3.9150	.30	643	3.5950	.19	Avg	3.8939		132	5.5650	.98	278	5.4300	.27
178	3.9000	.25	042	3.5550	.07	688	3.8500	-.52	723	5.5633	.96	035	5.4300	.27
554	3.8600	.14	074	3.5550	.07	724	3.8050	-.69	688	5.5500	.93	414	5.4200	.27
620	3.8428	.10	Avg	3.5396		178	3.8000	-.73	672	5.5500	.93	505	5.4200	.27
Avg	3.8138		520	3.4750	-.15	631	3.7900	-.90	710	5.5550	.92	633	5.4280	.26
590	3.8100	-.03	003	3.5050	-.19	032	3.7300	-1.34	629	5.5550	.92	358	5.3850	.24
621	3.7350	-.24	300	3.4500	-.21	640	3.5700 R	-2.82	294	5.5450	.87	559	5.4200	.22
350	3.7144	-.29	110	3.4550	-.30	588	2.9250 s	-7.55	159	5.5345	.82	119	5.4050	.19
354	3.6700	-.42	529	3.3900	-.34				631	5.4850	.81	164	5.3900	.12
588	3.6500	-.48	032	3.3750	-.37				229	5.5250	.76	357	5.4000	.11
633	3.6330	-.53	089	3.3700	-.38				693	5.5200	.75	202	5.3800	.01

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 005.00 --		--	Method 005.00 --		--	Method 005.11 --		--	Method 008.02 --		--	Method 008.99 --	
Avg	5.3782		194	5.1800	-1.03	Avg	5.7838		726	4.5800	-.84	673	6.4500	1.37
152	5.3600	-.14	100	5.1750	-1.05	631	5.7700	-.38	619	4.5200	-.89	297	6.2000	1.02
552	5.3500	-.15	510	5.1750	-1.05	640	5.4650	-1.60	353	4.4600 R	-1.02	307	5.6000	.24
034	5.3450	-.17	539	5.2000	-1.06	724	4.6150 S	-5.04	684	4.0500	-1.36	Avg	5.4583	
298	5.3400	-.20	623	5.2835 R	-1.08	665	4.1550 S	-6.92	--	Method 008.05 --		656	5.1300	-.45
300	5.3350	-.24	598	5.1700	-1.09	--	Method 005.99 --		265	5.1500	-.71	358	4.7900	-.92
171	5.3600	-.28	160	5.1700	-1.09	725	21.850 s	97.50	--	Method 008.08 --		164	4.5800	-1.21
144	5.3250	-.29	668	5.1680	-1.09	719	5.5550	1.18	--	Method 008.08 --		--	Method 009.04 --	
083	5.3250	-.30	616	5.3000 R	-1.11	673	5.5000	1.04	185	6.0900 R	2.60	726	15.215	.71
366	5.3300	-.32	527	5.1550	-1.16	676	5.5030	.88	278	5.9000	2.05	--	Method 009.07 --	
619	5.3400	-.33	027	5.1450	-1.21	724	5.5000	.85	001	5.9150 X	2.04	226	16.950	1.80
548	5.3225	-.33	019	5.1450	-1.23	652	5.4500	.63	536	5.5550 R	1.59	613	16.915	1.78
048	5.3100	-.36	615	5.2500 R	-1.23	688	5.4000	.26	510	5.6500	1.50	656	15.815	1.09
363	5.3050	-.38	670	5.1400	-1.23	536	5.3700	.09	581	5.3750	1.09	297	15.450	.87
033	5.3050	-.38	550	5.1350	-1.27	Avg	5.3557		414	5.3250	.85	045	14.720	.44
001	5.3100	-.39	121	5.1700 R	-1.30	663	5.3450	-.16	413	5.2500	.76	693	14.450	.24
098	5.3200	-.40	621	5.1250	-1.31	630	5.2450	-.90	049	5.2250	.67	164	14.370	.19
297	5.3000	-.40	650	5.1250	-1.32	096	5.3000 R	-1.23	037	4.9700	.46	Avg	14.073	
504	5.3000	-.43	622	5.1158	-1.36	681	5.1850	-1.36	357	4.9500	.32	307	14.000	-.08
038	5.3350	-.49	029	5.1150	-1.36	122	5.1150	-1.42	646	5.0000	.22	684	13.695	-.27
140	5.2850	-.52	169	5.1050	-1.42	208	5.1000	-1.53	Avg	4.9050		309	13.385	-.43
089	5.2750	-.54	596	5.1000	-1.44	--	Method 008.02 --		693	4.8350	-.14	038	13.195	-.57
242	5.2750	-.54	417	5.0900	-1.55	179	14.060 s	8.83	529	4.7450	-.32	354	13.105	-.61
138	5.2750	-.55	205	5.1160 R	-1.61	527	11.105 s	5.82	294	4.6150	-.59	187	13.075	-.63
062	5.2765	-.56	345	5.0650	-1.63	226	7.3500	2.00	035	4.6100	-.59	663	12.890	-.75
199	5.2700	-.57	265	5.0550	-1.69	613	7.1050	1.75	674	4.5900	-.74	098	11.790	-1.44
049	5.2750	-.58	129	5.0850 R	-1.74	675	6.4550	1.10	033	4.5100	-.80	353	11.360	-1.69
541	5.3550	-.66	309	5.0350	-1.79	405	6.4300	1.07	004	4.6700	-.83	--	Method 009.09 --	
130	5.2394	-.73	051	5.0250	-1.86	187	5.4800	.11	725	4.5000	-.84	536	49.865 s	43.15
660	5.2900	-.73	684	4.9950	-2.03	Avg	5.3827		160	4.4150	-.99	185	15.701	2.39
021	5.2450	-.75	618	4.8996	-2.52	148	5.3550	-.03	026	4.3600	-1.11	674	14.995	1.61
712	5.2300	-.77	--	Method 005.02 --		045	5.2350	-.15	202	4.3350	-1.15	049	14.505 R	1.24
015	5.2250	-.81	610	5.6100	.71	354	5.0350	-.36	653	4.3050	-1.21	414	14.685	1.16
709	5.3550 R	-.86	--	Method 005.11 --		171	4.8900	-.51	--			686	14.145	.53
008	5.2000	-.94	588	6.1550 S	1.20	309	4.8550	-.54	--			265	14.100	.47
658	5.1900	-.98	178	5.9500	.42	098	4.8300	-.57	--			529	14.080	.38
353	5.1900	-.98	688	5.9500	.42	038	4.5700	-.83	--					

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 009.09 --			-- Method 010.99 --			-- Method 011.01 --			-- Method 011.01 --			-- Method 012.02 --		
294	14.075	.38	652	10.200	.41	138	10.975	.68	701	10.450	-1.05	159	38.870	-.71
357	13.850	.12	724	10.200	.39	185	10.975	.67	021	10.460	-1.08			
Avg	13.761		673	10.050	.18	233	10.950	.59	710	10.440	-1.08	-- Method 012.03 --		
202	13.615	-.18	035	10.015	.12	363	10.945	.58	171	10.425	-1.17	098	38.850	1.25
510	13.750	-.18	037	9.9800	.06	645	10.900	.54	647	10.445 R	-1.21	Avg	38.017	
581	13.380	-.46	Avg	9.9378		529	10.930	.53	121	10.370	-1.31	684	37.855	-.39
653	13.380	-.48	613	9.7000	-.35	309	10.910	.49	633	10.356	-1.36	297	37.345	-.89
646	13.325	-.55	527	9.6550	-.42	354	10.910	.49	552	10.315	-1.50			
037	13.375	-.57	655	9.3100	-.93	670	10.915	.48	294	10.310	-1.51	-- Method 012.04 --		
413	13.150	-.79	168	9.2050	-1.08	159	10.900	.43	658	10.290	-1.57	051	42.250	1.87
278	13.100	-.79	726	9.1500 R	-1.20	100	10.895	.43	358	10.250	-1.71	038	38.120 R	.40
160	12.690	-1.28	712	8.2900	-2.42	194	10.875	.35	660	10.210	-1.87	Avg	37.456	
725	12.300	-1.75	725	5.4500 s	-6.60	164	10.850	.26	621	10.170	-1.97	160	36.830	-.24
						148	10.850	.26	122	10.005	-2.51	353	36.550	-.38
-- Method 009.99 --			-- Method 011.01 --			350	10.840	.25	675	9.9900	-2.56	278	35.850	-.63
619	23.100 S	19.96	108	12.085 s	4.56	622	10.811	.15	596	9.6500 s	-3.68	510	35.800	-.65
673	14.500	1.16	242	11.505	2.41	723	10.810	.13						
Avg	14.425		051	11.235	1.52	563	10.780	.07	-- Method 011.99 --			-- Method 012.99 --		
643	14.350	-.39	541	11.210	1.47	Avg	10.770		684	10.020	.71	619	48.600 S	.00
			033	11.165	1.30	653	10.755	-.05	Avg	10.020				
-- Method 010.03 --			646	11.140	1.22	229	10.740	-.10	265	9.6300 S	-5.73	-- Method 013.02 --		
546	7.2300 S	.00	559	11.110	1.14	598	10.720	-.16				130	7.2973 s	3.07
			623	11.096	1.12	674	10.725	-.17	-- Method 012.00 --			171	6.8250	1.09
-- Method 010.11 --			032	11.000 R	1.00	722	10.716	-.18	689	40.950	1.30	003	6.8250	1.07
724	10.635	1.23	573	11.074	1.00	548	10.715	-.19	178	40.500	.89	643	6.7650	1.00
688	10.500	.84	414	11.050	.99	620	10.739	-.19	548	40.490	.84	008	6.6150 R	.94
631	10.410	.49	205	11.030	.95	539	10.715	-.31	Avg	39.688		100	6.7700	.92
178	10.400	.42	643	11.050	.93	034	10.685	-.32	559	39.550	-.15	014	6.6800	.79
640	10.395	.42	650	11.030	.86	651	10.694	-.34	672	39.250	-.48	051	6.6700	.65
Avg	10.275		119	11.020	.82	298	10.660	-.36	653	38.775	-.95	354	6.6100	.54
032	10.175	-.34	407	11.020	.82	591	10.650	-.40	567	39.000 R	-1.25	033	6.6000	.49
567	9.9000	-1.32	300	10.870 R	.79	062	10.655	-.40	673	38.300	-1.46	548	6.5250	.27
588	9.7850	-1.69	008	10.995	.79	226	10.650	-.43	354	29.130 s	-15.00	581	6.4650	.23
			202	11.010	.79	511	10.635	-.47				650	6.4900	.17
-- Method 010.99 --			668	10.946 R	.76	175	10.750	-.50	-- Method 012.01 --			Avg	6.4285	
417	11.075	1.68	098	10.995	.76	152	10.600	-.56	686	37.115	.79	645	6.4000	-.08
714	10.704	1.13	160	11.000	.75	510	10.700 R	-.69	Avg	36.186		065	6.4000	-.08
141	10.395	.69	208	11.000	.75	144	10.590	-.71	185	35.257	-.93	026	6.3750	-.15
666	10.350	.61	520	10.975	.70	132	10.510	-.86				208	6.3650	-.18

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 013.02	--	--	Method 015.00	--	--	Method 019.00	--	--	Method 019.01	--	--	Method 019.01	--
229	6.4100	-.20	616	243.50	1.73	647	1.1500 S	3.81	263	0.9634	.42	591	0.7950	-2.25
671	6.3000	-.36	520	208.00	.76	552	1.0300	1.56	354	0.9600	.40	609	0.7850	-2.40
616	6.0800	-.94	414	200.00	.53	646	1.0300	1.55	233	0.9600	.40			
011	5.6400 R	-2.33	045	195.00	.39	043	1.0250	1.53	563	0.9600	.40	--	Method 019.03	--
164	5.5450	-2.39	011	180.94	.07	679	0.9800	.61	065	0.9615	.39	048	1.0500	1.38
414	5.4700	-2.60	Avg	180.93		722	0.9708	.44	014	0.9570	.39	307	1.0300	.96
675	5.4200 s	-5.06	164	179.90	-.03	681	0.9550	.17	205	0.9605	.37	033	1.0100	.56
			345	174.95	-.17	194	0.9550	.17	658	0.9565	.31	Avg	0.9858	
			154	174.50	-.23	Avg	0.9474		650	0.9550	.29	036	0.9805	-.15
--	Method 013.10	--	353	155.06 R	-.80	689	0.9400	-.23	018	0.9430	.27	043	0.9750	-.39
656	7.0550	1.88	560	150.00	-.86	621	0.9000	-.89	350	0.9485	.24	686	0.9350	-1.08
140	7.0250	1.82	021	102.50	-2.17	175	0.9000	-.91	208	0.9440	.21	613	0.9200	-1.41
591	6.9450	1.57				622	0.8974	-.94	612	0.9500	.20			
353	6.6550	.80	--	Method 016.00	--	633	0.8947	-.99	038	0.9480	.20	--	Method 019.05	--
096	6.5100	.41	567	0.1150	.97	651	0.8935	-1.02	620	0.9460	.14	159	1.0180	2.25
714	6.3980	.19	Avg	0.1003		620	0.8925	-1.03	669	0.9445	.13	185	1.0015	1.79
Avg	6.3758		619	0.0855	-.74	623	0.8858 R	-1.84	Avg	0.9370		242	0.9950	1.62
539	6.3700	-.06				132	0.0982 s	-15.97	026	0.9350	-.09	208	0.9855	1.38
666	6.3400	-.11	--	Method 016.02	--				001	0.9315	-.10	049	0.9800	1.21
177	6.2950	-.22	154	0.0650	.71	--	Method 019.01	--	307	0.9300	-.19	100	0.9550 R	1.08
062	6.2770	-.29				596	1.7500 s	12.87	504	0.9239	-.26	405	0.9750	1.08
672	6.2500	-.37	--	Method 017.00	--	674	1.0900 s	2.66	656	0.9200	-.27	008	0.9700	.97
185	6.2100	-.46	353	11.935 S	7.19	720	1.1000	2.57	010	0.9250	-.30	029	0.9685	.90
688	6.1500	-.64	613	12.705 S	7.16	013	1.0800	2.28	039	0.9156	-.34	510	0.9650	.81
660	6.1250	-.69	560	8.9250	1.01	709	1.0450 R	1.85	098	0.9350	-.40	613	0.9650	.81
673	6.1000	-.76	345	8.4500	.41	675	1.0400	1.63	178	0.9100	-.46	413	0.9600	.72
554	6.0300 R	-1.16	693	8.4000	.19	122	1.0250	1.39	152	0.9100	-.46	414	0.9600	.72
160	5.8685	-1.41	Avg	8.2750		169	1.0100	1.16	141	0.9220	-.56	074	0.9550	.67
610	5.9000 R	-1.42	414	8.0500	-.52	278	0.9950	.95	004	0.8950	-.67	294	0.9600	.67
663	5.8150	-1.55	045	7.5500	-1.73	710	0.9850	.76	363	0.8900	-.74	148	0.9580	.62
						035	0.9850	.76	670	0.8800	-.92	512	0.9478	.49
--	Method 013.13	--	--	Method 017.99	--	588	0.9775	.64	511	0.8800	-.96	011	0.9469	.34
042	6.7250	.71	307	9.6950	-.71	129	0.9765	.62	687	0.8600	-1.23	164	0.9455	.28
						034	0.9750	.60	548	0.8580	-1.27	187	0.9430	.22
--	Method 013.99	--	--	Method 018.02	--	619	0.9685	.58	554	0.8550	-1.30	598	0.9400	.13
689	6.9500	.71	011	0.1028	1.32	631	0.9450 R	.57	653	0.8500	-1.38	Avg	0.9353	
			Avg	0.0943		036	0.9715	.54	130	0.9358 R	-1.44	229	0.9350	-.13
			567	0.0900	-.62	505	0.9650	.50	108	0.8200	-1.85	297	0.9350	-.13
			154	0.0900	-.62	019	0.9650	.45	536	0.7974	-2.21	407	0.9300	-.14

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 019.05	--	--	Method 019.09	--	--	Method 020.00	--	--	Method 021.02	--	--	Method 022.01	--
298	0.9300	-.30	199	0.9858	.81	164	2.6500	1.04	045	0.4500	-1.52	720	9.3750	S -4.36
300	0.9200	-.43	110	0.9800	.69	Avg	2.6100		035	7.5000	s -5.83			
083	0.9200	-.49	726	0.9750	.66	208	2.5700	-.65	--	Method 021.99	--			
557	0.9170	-.49	202	0.9700	.52				017	1.0000	.00	--	Method 022.03	--
610	0.9170	-.50	096	0.9650	.49	--	Method 020.01	--				159	21.510	s 7.41
265	0.9300	-.56	353	0.9650	.38	021	7.2000	s 11.42	--	Method 022.00	--	003	21.500	s 6.77
520	0.9150	-.56	037	0.9550	.36	154	3.0500	1.63	229	14.500	.71	265	20.000	s 5.44
560	0.9135	-.60	017	0.9600	.33	045	2.6500	.77				074	16.500	2.15
144	0.9275	-.64	027	0.9600	.33	171	2.5000	.33	--	Method 022.01	--	144	16.100	1.73
168	0.9030	-.87	028	0.9600	.33	Avg	2.3591		620	24.935	s 7.72	008	15.650	1.31
026	0.9026	-.89	357	0.9500	.03	011	2.3335	-.09	175	22.000	s 5.43	164	15.400	1.08
051	0.9000	-.95	Avg	0.9484		560	2.2300	-.48	722	21.187	s 4.80	187	15.110	.81
171	0.9000	-.99	160	0.9390	-.23	096	2.0000	-.85	141	17.806	2.22	100	15.000	.70
645	0.8976	-1.02	045	0.9355	-.29	567	1.7500	-1.48	038	16.500	1.23	413	14.550	.67
685	0.8950	-1.16	366	0.9350	-.31				709	15.950	1.22	171	14.500	.52
550	0.9085	R -1.18	021	0.9290	-.42	--	Method 020.99	--	689	16.000	1.10	405	14.500	.52
226	0.8850	-1.36	345	0.9300	-.46	616	2.9450	.87	208	16.200	.93	083	14.500	.52
089	0.8800	-1.49	693	0.9255	-.59	Avg	2.4425		619	16.050	.89	560	14.500	.52
358	0.8850	-1.51	186	0.9116	-.80	675	1.9400	-.86	363	16.045	.82	358	14.425	.41
701	0.8730	-1.72	616	0.8790	-1.52				004	16.000	.78	029	14.560	.29
003	0.8650	-1.90	154	0.8713	-1.69	--	Method 021.01	--	505	15.500	.55	414	14.300	.19
			309	0.8150	-2.90	619	1.5000	S 5.68	307	15.150	.52	148	14.350	.17
			038	0.8165	s -2.95	689	0.7000	.71	590	15.010	.40	011	14.353	.10
--	Method 019.08	--				Avg	0.7000		350	15.100	.17	Avg	14.246	
689	1.2350	S 5.04	--	Method 019.99	--				646	15.150	.16	049	14.210	-.05
590	1.0500	1.54	588	1.2300	s 6.38	--	Method 021.02	--	Avg	15.000		242	14.000	-.23
723	1.0040	.15	529	1.0050	1.61	567	1.2000	s 3.68	098	15.000	.00	510	14.000	-.23
Avg	0.9970		725	0.9750	1.14	616	0.9955	2.10	588	15.000	.00	407	13.930	-.29
138	0.9840	-.28	121	0.9605	.76	510	0.8700	1.27	278	15.000	-.16	701	13.800	-.42
673	0.9500	-1.01	Avg	0.9203		186	0.8000	.81	675	14.725	-.29	026	13.750	-.46
			692	0.9100	-.43	154	0.7150	.26	653	14.463	-.57	610	13.500	-.70
--	Method 019.09	--	724	0.8900	-.58	011	0.6880	.09	178	14.750	-.61	613	13.500	-.70
567	9.7000	s 190.54	629	0.8900	-.61	Avg	0.6760		658	14.180	-.71	226	13.500	-.84
047	1.2969	s 7.64	676	0.8670	-1.01	171	0.6500	-.37	013	13.800	-.93	520	13.000	R -1.49
042	1.1200	s 3.79	665	0.8650	-1.05	021	0.6500	-.37	669	13.740	-.98	550	14.104	R -1.58
032	1.0450	R 2.32				038	0.6250	-.37	596	14.000	-1.10	208	12.400	-1.73
035	1.0300	1.79				560	0.5980	-.52	548	13.434	-1.24	297	12.000	-2.09
572	0.9980	1.23				572	0.5500	-.84	354	13.360	-1.27	185	12.000	-2.09
106	0.9955	1.02				169	0.5200	-1.03	591	12.090	-2.27	300	12.770	R -2.15
190	0.9900	.93												

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
-- Method 022.03 --			-- Method 022.99 --			-- Method 025.03 --			-- Method 025.05 --			-- Method 027.01 --		
598 9.5000 s	-4.45		121 8.9095 S	-4.30		164 266.95	1.11		021 257.00	.34		656 0.2150	1.23	
						074 266.00	1.10		345 260.60	.33		307 0.2150	1.23	
-- Method 022.05 --			-- Method 023.01 --			148 262.00	.83		693 258.50	.25		350 0.2151	1.08	
035 31.000 s	11.31		619 0.0030	.00		049 257.72	.78		045 258.00	.24		038 0.2120	1.02	
726 17.705	2.03					029 257.95	.61		199 255.90	.17		650 0.2131	.85	
353 16.990	1.52		-- Method 025.01 --			083 257.00	.57		567 254.50	.17		129 0.2123	.82	
017 16.500	1.23		689 284.00	1.89		414 254.50	.44		037 254.55	.08		208 0.2115	.65	
190 16.410	1.15		208 272.00	1.19		229 249.00	.40		Avg 252.52			504 0.2101	.47	
042 15.900	.87		658 271.90	1.19		242 252.50	.32		186 252.05	-.04		098 0.2100	.47	
027 14.990 R	.84		504 269.00	1.07		405 248.50	.26		106 243.00	-.39		505 0.2095	.44	
202 16.000	.83		629 265.50	.86		520 250.50	.24		160 237.00	-.66		263 0.2092	.36	
096 15.000	.71		619 262.00	.85		297 249.00	.16		096 235.00	-.75		722 0.2065	.04	
572 14.850	.52		098 257.00	.66		Avg 246.87			035 234.50	-.75		Avg 0.2062		
021 15.450	.48		350 259.15	.54		510 243.50	-.19		616 232.00	-.84		014 0.2060	-.02	
616 15.200	.28		175 257.00	.50		598 241.50	-.30		154 226.50	-1.08		619 0.2045	-.21	
567 14.930	.23		505 255.50	.37		610 241.25	-.31		726 228.54 R	-1.17		563 0.2050	-.39	
357 15.000	.14		307 254.00	.34		413 244.00	-.42		294 223.95	-1.18		175 0.2050	-.62	
366 15.000	.14		035 253.50	.26		701 239.00	-.45		169 221.00	-1.30		588 0.2010	-.62	
Avg 14.800			278 252.00	.17		300 246.15	-.47		353 218.30	-1.48		035 0.2000	-.74	
186 14.450	-.25		Avg 248.65			171 238.00	-.49					278 0.2000	-.74	
160 14.475	-.26		588 245.50	-.16		026 237.50	-.52		-- Method 025.99 --			675 0.2000	-.74	
169 14.350	-.31		591 244.00	-.35		187 237.32	-.54		725 268.50	1.22		609 0.1950	-1.48	
199 14.255	-.38		563 241.15	-.39		407 233.00	-.76		Avg 247.20			596 0.1900	-1.96	
294 14.250	-.40		354 240.95	-.40		550 232.42	-.87		529 233.10	-.69		130 0.2050 R	-2.12	
693 14.200	-.44		038 240.00	-.47		144 232.20	-.94		692 240.00	-.73		548 0.1870	-2.35	
037 14.400	-.47		014 238.00	-.56		557 227.50	-1.08					591 0.1650 s	-5.02	
038 14.100	-.49		656 246.45 R	-.73		613 227.00	-1.11		-- Method 026.00 --					
154 14.600	-.57		548 236.12	-.84		560 226.50	-1.14		154 0.1100	.63		-- Method 027.03 --		
045 14.750	-.59		675 227.86	-1.12		003 218.00	-1.61		Avg 0.0950			003 0.2500 s	5.53	
345 12.560	-1.55		646 224.50	-1.23		226 217.00	-1.64		567 0.0800	-1.05		011 0.2223	2.11	
106 12.350	-1.70		596 217.00	-1.62		265 211.50	-1.95					159 0.2085 R	1.60	
309 11.135	-2.54		670 200.06	-2.48					-- Method 026.99 --			100 0.2150	1.36	
028 10.200 s	-3.24					-- Method 025.05 --			619 0.0000	.00		008 0.2150	1.36	
			-- Method 025.03 --			038 307.50	2.26					613 0.2150	1.36	
-- Method 022.99 --			008 283.50	2.03		572 301.00	2.01		-- Method 027.01 --			185 0.2148	1.19	
692 17.950 S	3.79		100 277.50	1.71		042 282.50	1.24		141 1.9150 s	207.00		300 0.2140	1.15	
529 14.650	1.03		159 273.65	1.48		366 280.50	1.19		720 0.2500 s	5.31		026 0.2126	1.09	
Avg 14.535			011 273.48	1.48		309 261.00 R	1.01		646 0.2100 R	1.30		610 0.2130	.97	
725 14.420	-.67		208 267.50	1.18		017 261.50	.37		169 0.2150	1.23		164 0.2105	.66	

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 027.03	--	--	Method 027.05	--	--	Method 028.01	--	--	Method 028.03	--	--	Method 028.05	--
413	0.2100	.60	160	0.2090	.31	646	102.73	.46	148	103.50	.28	017	101.00	-.40
414	0.2100	.60	616	0.2070	.13	013	102.00	.43	083	102.50	.26	038	100.75	-.45
598	0.2100	.60	199	0.2069	.07	629	100.50	.25	229	103.00	.24	045	102.55	-.60
265	0.2100	.60	Avg	0.2069		563	100.15	.20	Avg	101.85		693	101.10	-.65
074	0.2100	.60	309	0.2055	-.19	669	99.430	.16	187	99.875	-.32	096	99.000	-.65
208	0.2075	.34	345	0.2055	-.19	588	98.500	.06	510	99.500	-.38	309	97.820	-.79
148	0.2075	.34	021	0.2048	-.28	Avg	98.996		026	100.10	-.54	616	97.000	-.95
187	0.2060	.15	154	0.2045	-.32	689	96.500	-.18	297	98.000	-.64	028	95.500	-1.13
Avg	0.2052		186	0.2056	-.54	511	98.000	-.20	413	101.80	-.67	202	92.000	-1.53
171	0.2040	-.14	096	0.2050 R	-.70	178	96.900	-.32	300	99.410	-.76	154	86.000	-2.33
407	0.2020	-.39	353	0.2050 R	-.70	004	95.000	-.34	407	95.800	-.97			
557	0.2015	-.46	202	0.2000	-.90	141	94.850	-.34	610	95.600	-1.01	--	Method 028.99	--
029	0.2010	-.57	017	0.2000	-.90	619	94.200	-.42	613	95.200	-1.07	536	121.70	1.40
049	0.2050	-.62	366	0.2000	-.90	278	91.500	-.69	520	95.000	-1.09	725	105.00	.38
242	0.2050	-.62	110	0.2000	-.90	354	89.235	-.90	550	97.898	-1.26	121	106.77	.37
294	0.2000	-.64	693	0.2045 R	-.91	548	88.080	-1.15	405	94.000	-1.29	Avg	101.48	
520	0.2000	-.64	038	0.1985	-1.15	591	86.100	-1.26	144	94.650	-1.59	692	91.450	-.71
297	0.2000	-.64	045	0.1935	-1.76	175	83.000	-1.61	598	87.000	-2.37	529	82.500	-1.33
229	0.2000	-.64				596	79.500	-1.90	226	82.000 s	-3.18			
405	0.2000	-.64	--	Method 027.99	--	656	75.410 S	-2.31				--	Method 029.00	--
051	0.2000	-.64	725	0.2100	1.29	350	44.600 s	-5.40	--	Method 028.05	--	675	0.0045	-.71
083	0.2000	-.64	Avg	0.2016					035	229.50 s	16.00			
560	0.1985	-.93	692	0.2000	-.25	--	Method 028.03	--	037	119.25	2.11	--	Method 030.00	--
144	0.1975	-1.10	536	0.2015	-.39	414	111.50 R	1.95	294	117.75	1.75	307	53.000	.71
510	0.1950	-1.40	529	0.1950	-1.28	008	112.50	1.75	572	111.00	1.17			
358	0.1950	-1.40				265	103.50 R	1.38	357	112.00	1.14	--	Method 031.00	--
550	0.1980 R	-1.73	--	Method 028.01	--	242	109.50	1.29	726	108.30	1.11	620	0.7723	.71
226	0.1900	-1.87	620	131.00 s	3.31	560	108.00	1.17	190	109.86	.75			
701	0.1885	-2.08	722	120.69	2.28	074	108.00	1.09	353	106.90	.61	--	Method 031.01	--
			208	111.50	1.34	208	108.00	1.00	021	106.00	.46	573	7.5920 s	346.42
--	Method 027.05	--	035	108.50	1.04	100	104.50	.98	042	107.00	.46	650	0.8250	2.80
042	0.2375 S	4.03	014	105.00 R	.99	003	107.50	.94	345	106.45	.38	621	0.8100	2.03
035	0.2350 S	3.75	505	106.50	.85	164	106.30	.71	160	105.50	.37	669	0.8010	1.64
037	0.2200	1.72	307	106.00	.79	011	106.21	.71	106	106.00	.25	609	0.8000	1.52
726	0.2200	1.72	590	105.47	.77	159	106.25	.71	567	105.50	.24	563	0.7950	1.29
572	0.2190	1.64	038	105.50	.75	171	104.00	.59	366	104.50	.20	194	0.7950	1.29
106	0.2180	1.48	504	105.00	.72	185	105.00	.50	Avg	104.01		026	0.7850 R	1.08
357	0.2100	.41	098	103.50	.54	029	104.50	.49	169	102.00	-.29	619	0.7900	1.01
567	0.2100	.41	675	103.05	.50	049	104.18	.38	186	103.65	-.33	363	0.7900	1.01

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 031.01	--	--	Method 031.01	--	--	Method 031.05	--	--	Method 031.05	--	--	Method 031.99	--
018	0.7855	.82	665	0.7450	-1.30	021	0.8150	1.30	008	0.7650	-.33	588	0.9350 S	3.80
647	0.7850	.80	723	0.7435	-1.35	610	0.8155	1.27	520	0.7700	-.33	631	0.8450	1.36
710	0.7850	.80	548	0.7400	-1.53	029	0.8150	1.25	148	0.7630	-.35	552	0.8300	1.09
709	0.7800	.51	122	0.7350	-1.80	645	0.8086	1.12	294	0.7600	-.44	676	0.8235	.80
098	0.7800	.51	039	0.7262	-2.23	572	0.8090	1.12	407	0.7600	-.44	590	0.8000	.30
653	0.7780	.45	511	0.7300 R	-2.27	358	0.7750 R	1.07	298	0.7600	-.54	Avg	0.7948	
036	0.7775	.38	687	0.6900 A	-4.10	027	0.8050	1.04	017	0.7600	-.54	724	0.7800	-.40
035	0.7750	.36	132	0.6893 s	-4.18	096	0.8050	1.04	685	0.7600	-.54	529	0.7700	-.72
175	0.7750	.36	675	0.6700 s	-5.10	353	0.7900 R	1.03	613	0.7550	-.61	673	0.7500	-1.24
674	0.7750	.36	596	0.6650 s	-5.34	512	0.8057	1.01	003	0.7550	-.61	725	0.7600	-1.24
689	0.7750	.36	130	0.7088 s	-5.41	557	0.8055	.95	357	0.7550	-.61	692	0.6700 S	-3.37
019	0.7750	.36	108	0.5650 s	-10.78	074	0.8050	.94	560	0.7620	-.62			
233	0.7750	.36				190	0.8050	.94	199	0.7541	-.62	--	Method 032.01	--
001	0.7755	.30	--	Method 031.02	--	208	0.8020	.91	144	0.7625	-.72	675	1.0350 s	4.32
038	0.7745	.23	004	0.7950	.88	038	0.7990	.79	567	0.7500	-.80	175	0.9050	1.83
263	0.7743	.22	505	0.7800	.48	300	0.7885	.77	345	0.7450	-.91	307	0.8700	1.27
633	0.7731	.15	043	0.7800	.40	693	0.7970	.74	616	0.7445	-.91	720	0.8750	1.26
350	0.7723	.11	011	0.7730	.22	042	0.7950	.71	100	0.7500	-.96	035	0.8750	1.23
Avg	0.7700		Avg	0.7647		186	0.7959	.69	045	0.7405	-1.03	278	0.8550	.89
010	0.7700	.00	014	0.6955	-1.81	049	0.7950	.65	028	0.7350	-1.21	205	0.8570	.88
722	0.7700	.00				726	0.7950	.65	051	0.7350	-1.21	350	0.8514	.80
629	0.7700	.00	--	Method 031.03	--	413	0.7900	.56	168	0.7340	-1.23	591	0.8500	.77
623	0.7682	-.35	208	0.7930	1.06	159	0.7920	.54	701	0.7345	-1.26	536	0.8330	.43
354	0.7650	-.36	033	0.7935	.98	405	0.7900	.47	309	0.7300	-1.35	208	0.8325	.43
646	0.7650	-.36	504	0.7836	.70	414	0.7850	.36	187	0.7286	-1.40	098	0.8200	.25
278	0.7650	-.36	047	0.7750	.62	121	0.7860	.35	171	0.7250	-1.51	650	0.8150	.12
034	0.7650	-.36	307	0.7750	.45	185	0.7810	.20	089	0.7250	-1.51	Avg	0.8114	
065	0.7620	-.41	043	0.7750	.45	164	0.7800	.17	510	0.7100	-1.96	130	0.8101	-.15
169	0.7600	-.51	036	0.7635	.16	297	0.7800	.17	035	0.6950	-2.43	038	0.8025	-.20
670	0.7600	-.51	Avg	0.7609		202	0.7750	.15	550	0.6885 S	-2.75	656	0.8000	-.29
658	0.7583	-.60	613	0.7350	-.79	242	0.7750	.15	154	0.6516 s	-3.75	354	0.8000	-.29
656	0.7600	-.72	048	0.7200	-1.23	Avg	0.7744					609	0.7900	-.41
588	0.7550	-.76	720	0.6950	-1.99	598	0.7700	-.13	--	Method 031.06	--	141	0.7995 R	-.83
651	0.7535	-.84				366	0.7700	-.13	138	0.7550	.44	619	0.7670	-.88
205	0.7530	-.96	--	Method 031.05	--	160	0.7640	-.32	686	0.7550	.44	019	0.7700	-.89
679	0.7500	-1.02	106	0.8620	2.67	229	0.7650	-.33	Avg	0.7493		363	0.7550	-1.09
622	0.7460	-1.23	037	0.8400	2.02	083	0.7650	-.33	536	0.7400	-.79	670	0.7500	-1.20
178	0.7450	-1.30	032	0.8350	1.90	265	0.7650	-.33	141	0.7470	-1.57	505	0.7400	-1.39
152	0.7450	-1.30	226	0.8150	1.32	110	0.7650	-.33				548	0.7335	-1.54

* 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 032.01 --			-- Method 032.05 --			-- Method 032.99 --			-- Method 033.01 --			-- Method 033.03 --		
563	0.7170	-1.82	017	0.8350	.26	529	0.8400	.84	278	0.4400	1.06	598	0.4150	.32
			226	0.8300	.11	725	0.8300	.47	610	0.4380	.99	048	0.3950	.06
-- Method 032.02 --			Avg	0.8255		Avg	0.8150		202	0.4295	.63	Avg	0.4125	
665	0.9000	1.43	011	0.8248	-.05	692	0.7750	-1.26	019	0.4250	.49	190	0.3650	-.40
108	0.8750	.87	154	0.8226	-.07				175	0.4250	.49	122	0.3500	-.56
590	0.8450	.59	199	0.8226	-.09	-- Method 033.00 --			098	0.4200	.47	144	0.3450	-.63
504	0.8538	.42	083	0.8250	-.12	618	1.8835 s	58.14	205	0.4180	.40	265	0.2450 S	-1.86
629	0.8450	.23	294	0.8250	-.12	169	0.5350 S	3.69	229	0.4200	.23			
Avg	0.8357		300	0.8231	-.15	353	0.4800	2.22	100	0.4200	.23	-- Method 033.05 --		
588	0.8160	-.44	164	0.8185	-.17	297	0.4470	1.34	026	0.4150	.21	613	0.4200	.94
129	0.7960	-.89	407	0.8180	-.18	621	0.4375	1.09	Avg	0.4143		Avg	0.4075	
169	0.7550	-1.77	645	0.8188	-.21	539	0.4300	.89	178	0.4100	-.18	171	0.3950	-.79
			042	0.8245	-.23	298	0.4100	.45	629	0.4100	-.18			
-- Method 032.05 --			008	0.8150	-.28	034	0.4100	.36	650	0.4100	-.18	-- Method 033.99 --		
297	2.3650 s	37.53	045	0.8130	-.30	675	0.4100	.36	510	0.4100	-.18	630	0.7700 S	8.31
106	0.9710 s	3.55	171	0.8135	-.31	567	0.4000	.10	185	0.4122	-.27	536	0.6174 S	4.95
572	0.9142	2.20	100	0.8250	-.37	045	0.3995	.08	011	0.4072	-.29	557	0.4950 S	2.72
510	0.9000	1.82	186	0.8113	-.37	Avg	0.3964		559	0.4050	-.43	681	0.4350	1.20
037	0.8950	1.70	557	0.8110	-.38	038	0.3900	-.17	199	0.4050	-.43	051	0.4300	.97
726	0.8900	1.57	160	0.8125	-.41	160	0.3900	-.32	354	0.4050	-.43	233	0.4150	.66
613	0.8800	1.35	242	0.8100	-.45	693	0.3835	-.37	413	0.4050	-.43	673	0.4100	.59
560	0.8735	1.21	028	0.8050	-.51	511	0.3950	-.40	035	0.4050	-.43	Avg	0.3841	
610	0.8670	1.01	159	0.8055	-.56	366	0.3800	-.51	029	0.4100	-.45	529	0.3600	-.51
202	0.8600	.88	520	0.8100	-.62	208	0.3705	-.70	164	0.4000	-.59	685	0.3650	-.67
405	0.8600	.88	693	0.8065	-.70	407	0.3700	-.70	096	0.4000	-.59	552	0.3550	-.81
148	0.8600	.84	414	0.8200 R	-.74	309	0.3690	-.73	345	0.3970	-.71	723	0.3030	-1.72
413	0.8600	.84	035	0.7850	-.99	689	0.3500	-1.23	004	0.4000	-.72	619	0.1725 S	-4.48
038	0.8580	.79	353	0.7850	-.99	596	0.3500 R	-1.81	590	0.4000	-.72			
144	0.8560	.75	029	0.7855	-1.00	674	0.3100	-2.36	709	0.3940	-.90	-- Method 034.01 --		
345	0.8550	.73	616	0.7810	-1.08	653	0.2700 S	-3.37	686	0.3900	-1.00	560	0.4900	.94
185	0.8540	.70	096	0.8250 R	-1.10	679	0.1800 s	-5.75	106	0.3775	-1.51	Avg	0.4770	
021	0.8485	.56	358	0.7950 R	-1.13				307	0.3700	-1.82	038	0.4640	-.78
026	0.8420	.41	003	0.7700	-1.35	-- Method 033.01 --			140	0.3650	-2.04			
110	0.8400	.35	309	0.7550	-1.76	001	0.4740	2.46	725	0.2400 s	-7.35	-- Method 034.04 --		
049	0.8300	.27	265	0.7250	-2.45	226	0.4700	2.29				619	0.4650	1.06
567	0.8300	.27	208	0.7225	-2.51	194	0.4550	1.69	-- Method 033.03 --			610	0.4700	.66
229	0.8350	.26	550	0.7265 R	-2.51	039	0.4518	1.54	159	0.5150	1.51	Avg	0.4601	
357	0.8350	.26	187	0.7135	-2.73	021	0.4385 R	1.39	505	0.4850	1.26	164	0.4600	-.01
366	0.8350	.26	051	0.6950 s	-3.18	242	0.4400	1.13	726	0.4300	.45	208	0.4555	-.83

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 034.04	--	--	Method 035.01	--	--	Method 035.03	--	--	Method 035.05	--	--	Method 036.03	--
171	0.4500	-1.50	563	0.1606	1.23	645	0.1211	.16	629	0.1200	-.19	693	0.2495	-.61
169	0.1000	S -24.13	138	0.1500	.69	610	0.1205	.11	106	0.1170	-.34	187	0.2470	-.72
			686	0.1400	.18	414	0.1200	.05	129	0.1160	-.40	708	0.2440	-.89
--	Method 034.05	--	Avg	0.1371		Avg	0.1196		504	0.1138	-.50	045	0.2440	-.89
693	1.4500	S 30.15	613	0.1250	-.68	148	0.1180	-.16	160	0.1120	-.59	159	0.2315	-1.68
567	0.4700	1.28	647	0.1100	-1.42	185	0.1184	-.17	108	0.0850	-1.90	616	0.2175	-2.56
Avg	0.4250					208	0.1185	-.19				265	0.2000	S -3.71
154	0.4050	-.59	--	Method 035.03	--	345	0.1180	-.19	--	Method 035.99	--	550	0.0885	S -10.68
414	0.4000	-.71	003	0.2050	S 8.82	557	0.1180	-.19	588	0.1800	S 4.87			
			297	0.1850	S 7.22	021	0.1170	-.28	724	0.1400	1.41	--	Method 036.04	--
--	Method 035.00	--	051	0.1850	S 6.77	171	0.1165	-.41	536	0.1375	R 1.26	414	0.2800	.79
720	0.1850	S 5.83	187	0.1823	S 6.47	029	0.1150	-.48	529	0.1245	.15	226	0.2750	.57
670	0.1800	S 5.39	550	0.1495	S 3.86	045	0.1145	-.58	Avg	0.1236		Avg	0.2683	
609	0.1600	S 3.38	598	0.1550	S 3.69	186	0.1138	-.60	692	0.1200	-.31	510	0.2500	-1.25
675	0.1500	2.18	038	0.1355	1.71	693	0.1140	-.61	725	0.1100	-1.18			
263	0.1408	1.23	229	0.1350	1.67	096	0.1150	-.70				--	Method 036.99	--
722	0.1397	1.11	100	0.1350	1.67	613	0.1150	-.70	--	Method 036.00	--	366	0.2650	.71
658	0.1369	.82	011	0.1348	1.57	405	0.1150	-.70	297	0.2500	.00			
122	0.1350	.81	300	0.1275	R 1.53	008	0.1150	-.70	307	0.3200	S .00	--	Method 037.01	--
354	0.1350	.81	159	0.1305	1.18	407	0.1110	-.88	Avg	0.2500		658	159.50	S 4.20
175	0.1350	.81	164	0.1300	1.08	366	0.1100	-.99				722	146.93	2.64
208	0.1350	.81	035	0.1300	1.08	226	0.1100	-.99	--	Method 036.03	--	014	140.00	1.80
619	0.1305	.40	202	0.1300	1.08	110	0.1100	-.99	154	0.4345	S 11.10	354	139.25	1.72
098	0.1300	.11	358	0.1300	1.08	089	0.1100	-.99	021	0.2800	R 1.49	548	136.26	1.43
Avg	0.1290		017	0.1300	1.08	567	0.1100	-.99	106	0.2780	1.26	307	132.50	.86
130	0.1278	-.13	242	0.1300	1.08	560	0.1095	-1.05	042	0.2770	1.19	175	131.00	.68
205	0.1260	-.37	298	0.1200	R 1.03	154	0.1073	-1.30	613	0.2750	1.11	619	130.00	.66
650	0.1250	-.66	042	0.1285	.93	309	0.1045	-1.59	560	0.2705	.88	590	130.16	.61
709	0.1250	-.66	353	0.1280	.89	265	0.1000	-2.02	169	0.2700	.75	004	130.00	.60
656	0.1250	-.66	726	0.1275	.86	037	0.1000	-2.02	202	0.2700	.75	038	129.50	.49
307	0.1250	-.66	520	0.1250	.76	510	0.0990	-2.12	171	0.2685	.67	504	127.00	.41
035	0.1250	-.66	049	0.1250	.76				353	0.2650	.53	208	127.50	.39
152	0.1230	-.69	083	0.1250	.76	--	Method 035.05	--	186	0.2665	.53	596	128.00	.32
038	0.1225	-.81	413	0.1250	.76	665	0.1650	1.99	038	0.2630	.31	653	125.71	.30
591	0.1150	-1.54	616	0.1255	.66	169	0.1500	1.25	294	0.2600	.12	689	127.50	.25
233	0.1150	-1.54	572	0.1250	.60	590	0.1350	.58	357	0.2600	.12	Avg	125.57	
278	0.1150	-1.54	701	0.1235	.41	294	0.1300	.29	Avg	0.2581		350	124.20	-.21
548	0.1125	S -2.72	144	0.1225	.34	Avg	0.1240		160	0.2565	-.24	720	123.20	-.29
			199	0.1211	.18	588	0.1200	-.19	345	0.2490	-.58	563	123.10	-.31

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 037.01	--	--	Method 037.03	--	--	Method 037.05	--	--	Method 039.02	--	--	Method 102.01	--
035	122.50	-.39	560	120.50	-.40	028	119.00	-.66	045	1.4000	-1.32	227	26.350	-.71
669	122.39	-.40	026	119.00	-.59	160	119.00	-.69	567	0.4050 R	-4.73			
709	122.00	-.51	265	119.00	-.60	169	118.50	-.71				--	Method 103.01	--
505	125.00	-.62	297	121.50	-.64	693	117.60	-.90	--	Method 040.00	--	227	8.5300	-.71
675	120.36	-.65	407	118.00	-.72	154	116.00	-1.04	560	2.8300	-.71			
178	122.00	-.66	520	117.50	-.85	353	108.35	-1.93				--	Method 104.00	--
278	120.10	-.68	613	117.00	-.86	345	108.05	-1.96	--	Method 041.00	--	227	6.7250	1.30
620	118.99	-.82	003	116.50	-.92				021	2.0500	.75	Avg	6.0917	
098	118.00	-1.06	300	122.30 R	-.92	--	Method 037.99	--	011	2.0458	.61	171	5.8500	-.47
511	116.00	-1.21	159	115.43	-1.06	121	125.49	1.09	Avg	1.9653		208	5.7000	-.76
656	115.76	-1.24	550	117.71 R	-1.18	529	121.70	.46	154	1.8000	-1.25			
588	115.50	-1.25	144	113.20	-1.52	725	118.20	.35				--	Method 104.03	--
646	115.42	-1.27	358	110.23	-1.73	Avg	117.97		--	Method 045.00	--	026	5.0550	.71
141	112.55	-1.61	405	105.50	-2.39	692	106.50	-1.41	028	0.0550 s	54.19			
			168	77.500 s	-5.99				004	0.0151	1.87	--	Method 105.00	--
--	Method 037.03	--	--	Method 037.05	--	--	Method 038.00	--	019	0.0149	1.64	160	2.5850	.71
598	140.00	2.15	035	289.50 s	19.70	613	4.6100 s	16.48	Avg	0.0130				
049	139.68	2.11	309	124.50 R	2.69	159	2.9250 S	8.63	036	0.0129	-.13	--	Method 106.00	--
011	136.54	1.70	017	142.50	2.25	011	1.8718 R	2.37	034	0.0129	-.13	171	6.8000	-.71
413	130.50	1.08	038	137.00	1.50	045	1.7500	1.42	043	0.0128	-.22			
100	129.50	.90	027	130.33 R	1.11	154	1.6000	.61	227	0.0128	-.24	--	Method 106.02	--
074	129.00	.81	190	132.35	.95	169	1.5750	.50	511	0.0126	-.35	567	7100.0 s	4535.75
208	129.50	.80	726	132.19	.94	Avg	1.4836		006	0.0126	-.36	675	14.130 s	5.29
008	128.50	.68	202	131.50	.84	560	1.4750	-.05	171	0.0123	-.68	616	12.065 s	4.22
510	127.00	.47	106	131.00	.79	510	1.4000	-.44	038	0.0112	-1.57	199	8.4100	1.63
229	127.00	.47	572	130.50	.72	038	1.3850	-.57				610	7.8500	1.31
414	127.00	.45	096	130.00	.66	021	1.2000	-1.82	--	Method 045.02	--	227	7.2200	.95
164	126.95	.45	357	128.50	.49				003	0.0146 s	4.32	160	7.1950	.86
029	126.50	.39	366	128.50	.49	--	Method 038.99	--	033	0.0129	1.80	169	6.9650	.74
185	126.00	.35	037	128.20	.45	164	1.7750	.71	014	0.0120	.72	003	6.5000	.52
701	124.00	.27	567	127.50	.37	--	Method 039.01	--	218	0.0113	.01	208	6.0850	.44
083	125.00	.23	Avg	124.46		164	1.4000	.00	Avg	0.0113		021	6.4250	.39
171	124.00	.14	186	123.85	-.15				039	0.0113	-.12	038	6.0710	.14
Avg	123.52		199	122.50	-.24	--	Method 039.02	--	027	0.0109	-.49	670	5.9500	.10
148	123.50	-.07	021	120.50	-.51	154	2.2000	1.28	001	0.0109	-.50	Avg	5.8547	
610	122.40	-.17	616	120.00	-.55	560	1.8850	.27	047	0.0100	-1.50	096	5.7600	-.13
187	121.66	-.24	294	119.50	-.60	Avg	1.8064					619	5.6850	-.17
242	121.00	-.33	045	119.00	-.65	011	1.7405	-.24				560	5.5000	-.23
226	121.00	-.33										596	5.7900	-.27

* 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 106.02 --			-- Method 113.01 --			-- Method 122.00 --			-- Method 125.00 --			-- Method 128.00 --		
563	5.4028	-.30	227	0.5995	.71	504	1.4550	.37	684	2.9135	-1.50	676	0.6000	-.13
004	4.9700	-.57				571	1.4500	.33	504	2.9100	-1.54	684	0.5835	-.36
028	4.1557	-1.09	-- Method 114.01 --			Avg	1.4369					160	0.5830	-.37
008	3.8400	-1.30	227	0.2340	.00	652	1.4150	-.52	-- Method 126.00 --			227	0.5300	-1.51
557	1.4650	-2.80				350	1.4050	-.63	160	0.7184	1.00	675	0.5150	-1.81
			-- Method 120.00 --			675	1.3600	-1.51	227	0.7150	.85			
-- Method 106.99 --			160	1.1346 s	4.73	684	1.3570	-1.59	652	0.7100	.78	-- Method 129.00 --		
676	5.7450	.71	227	1.0250	1.52				676	0.7080	.56	675	2.1100 s	12.61
			652	0.9850 R	1.08	-- Method 124.00 --			350	0.7110	.56	619	1.6250	1.28
-- Method 107.00 --			619	1.0050	.94	675	0.5300 s	7.22	619	0.7100	.50	160	1.6237	1.24
227	13.400	.71	676	0.9915	.72	160	0.3550	1.33	571	0.7090	.50	504	1.6050	.81
			350	0.9810	.23	684	0.3505	1.18	Avg	0.7018		350	1.5975	.64
-- Method 108.02 --			571	0.9785	.20	652	0.3300	.49	504	0.7000	-.11	Avg	1.5705	
675	2.5700	.87	504	0.9750	.15	350	0.3220	.22	644	0.6895	-.75	644	1.5685	-.06
Avg	1.9300		Avg	0.9733		Avg	0.3156		675	0.6850	-1.05	571	1.5650	-.17
208	1.2900	-.86	644	0.9530	-.60	571	0.3120	-.14	684	0.6635	-2.31	227	1.5500	-.48
			675	0.9350	-1.21	504	0.3000	-.52				652	1.5550	-.50
-- Method 109.02 --			684	0.9160	-1.68	644	0.2920	-.79	-- Method 127.00 --			676	1.5235	-1.12
567	59.175	1.98				619	0.2630	-1.77	675	0.5700 R	2.90	684	1.4920	-1.86
169	47.500	.73	-- Method 121.00 --						676	0.5370	1.97			
563	48.924	.71	160	1.0886 s	3.62	-- Method 124.02 --			160	0.5094	1.23	-- Method 130.00 --		
227	47.800	.53	571	0.9980	.97	676	0.2935	.90	571	0.4660	.38	504	0.8500	1.27
675	47.480	.48	676	0.9895	.94	Avg	0.2818		652	0.4700	.17	685	0.8400	1.05
096	47.000	.43	644	0.9895	.75	227	0.2700	-.84	504	0.4650	.14	676	0.8330	.87
610	46.500	.35	504	0.9900	.73				Avg	0.4638		619	0.8255	.64
Avg	43.645		619	0.9800	.44	-- Method 124.05 --			644	0.4605	-.13	160	0.8245	.62
208	40.955	-.33	350	0.9765	.34	610	0.3350	.71	619	0.4590	-.13	350	0.8240	.60
676	39.670	-.51	Avg	0.9651					227	0.4350	-.79	208	0.8050	.40
008	33.990	-1.19	227	0.9650	-.15	-- Method 125.00 --			350	0.4320	-.85	571	0.8130	.32
199	32.600	-1.36	652	0.9450	-.61	227	3.1750	1.54	684	0.4045	-1.59	Avg	0.8006	
560	32.150	-1.43	684	0.9170	-1.48	160	3.1544	1.31				644	0.7995	-.12
619	0.0000 s	-5.39	675	0.9000	-1.93	652	3.0950	.61	-- Method 128.00 --			512	0.7968	-.14
						619	3.0900	.55	504	0.6800	1.69	675	0.7700	-.79
-- Method 112.00 --			-- Method 122.00 --			676	3.0715	.41	644	0.6430	.90	652	0.7700	-.83
227	5.7450	.71	227	1.5050	1.35	350	3.0490	.11	571	0.6425	.89	227	0.7450	-1.44
			160	1.4982	1.21	Avg	3.0420		652	0.6100	.29	684	0.7125	-2.27
			676	1.4675 R	.81	675	3.0100	-.51	619	0.6120	.27			
			619	1.4650	.56	571	3.0050	-.51	350	0.6065	.16			
			644	1.4585	.43	644	2.9885	-.62	Avg	0.6005				

* 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 130.01 --			-- Method 132.00 --			-- Method 135.00 --			-- Method 137.00 --					
035	0.8600	.71	571	0.7965	.49	160	0.6951 s	4.57	504	0.5200	-1.03	227	0.5100	-1.21
			644	0.7925	.25	350	0.6410	1.36						
-- Method 130.05 --			227	0.7900	.14	571	0.6345	1.19	-- Method 138.00 --					
010	0.8670	1.12	Avg	0.7857		227	0.6350	1.05	619	0.8710	1.64			
610	0.8450	.22	504	0.7850	-.17	644	0.6295	.68	504	0.8300	1.04			
Avg	0.8423		652	0.7550 R	-1.12	Avg	0.6180		644	0.7950	.52			
723	0.8150	-1.10	675	0.7350	-1.67	675	0.6150	-.35	350	0.7910	.46			
			684	0.7245	-2.00	504	0.6150	-.35	571	0.7850	.37			
-- Method 131.00 --			-- Method 133.00 --			676	0.6125	-.65	676	0.7720	.25			
675	0.3800 R	2.25	619	1.2050	1.05	619	0.6025	-.93	Avg	0.7604				
160	0.3618	1.45	571	1.1750	.80	684	0.6000	-1.09	160	0.7603	-.09			
644	0.3520	1.13	652	1.1600	.71	652	0.5950	-1.39	652	0.7450	-.44			
504	0.3250	.55	644	1.1765	.61	-- Method 135.05 --			684	0.7000	-.89			
512	0.3283	.39	676	1.1710	.56	610	0.6000	.00	227	0.6850	-1.14			
571	0.3255	.35	160	1.1641	.42	-- Method 136.00 --			675	0.6300	-1.94			
Avg	0.3170		227	1.1550	.29	684	0.1710	.71	-- Method 139.00 --					
350	0.3130	-.13	Avg	1.1372		-- Method 136.01 --			504	0.0450	.71			
619	0.2960	-.69	684	1.0850	-.81	227	0.2000 R	2.18	-- Method 300.01 --					
652	0.2900	-.93	504	1.0800	-.88	160	0.1929	1.24	615	4.8000	.00			
684	0.2615	-1.79	675	1.0000	-2.21	Avg	0.1805							
-- Method 131.02 --			-- Method 134.00 --			644	0.1775	-.30						
676	0.3580	.88	160	0.8687	1.60	571	0.1710	-.94						
Avg	0.3340		227	0.8600	1.44	-- Method 136.99 --								
227	0.3100	-.85	675	0.8200	.77	504	0.1700	.73						
			571	0.8020	.46	Avg	0.1673							
-- Method 131.05 --			619	0.7830	.14	610	0.1645	-.98						
723	0.4100	.88	Avg	0.7771		-- Method 137.00 --								
Avg	0.3650		350	0.7690	-.14	160	0.6656	1.54						
610	0.3200	-.86	684	0.7625	-.33	676	0.6225	.79						
			644	0.7500	-.47	652	0.7300	-.89						
-- Method 131.99 --			676	0.7275	-.86	504	0.6750	-1.78						
208	0.2500	.00												
			-- Method 132.00 --											
160	0.8172	1.03	160	0.8172	1.03									
350	0.8100	.79	350	0.8100	.79									
676	0.8050	.63	676	0.8050	.63									
619	0.8015	.53	619	0.8015	.53									

* 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	8	0.1185	0.99	0.36	010.11	8	0.0000	1.01	0.21
001.03	4	0.0000	0.99	0.36	010.99	16	-0.4846	1.91	0.12
001.07	43	4.2334	29.27	0.32	011.01	78	0.0128	1.16	0.28
001.99	18	0.0292	1.62	0.33	011.99	2	-2.7577	3.90	1.21
002.00	4	0.0000	1.04	0.26	012.00	9	-1.2891	3.72	3.46
002.01	9	0.8544	2.18	0.17	012.01	2	0.0000	1.11	0.36
002.02	14	0.5633	1.45	0.18	012.03	3	0.0000	1.01	0.39
002.03	4	0.0000	0.94	0.46	012.04	6	0.0431	0.95	0.14
002.04	6	0.1105	2.66	0.48	013.02	24	-0.0835	1.26	1.01
002.05	22	0.0202	0.98	0.25	013.10	19	-0.1192	1.01	0.24
002.06	128	0.1068	1.20	0.34	015.00	11	-0.0649	1.00	0.13
002.08	7	0.0000	0.98	0.33	016.00	2	0.0000	0.96	0.53
002.10	8	0.0379	0.96	0.26	017.00	7	1.7927	3.15	1.91
002.11	13	-0.5497	2.20	0.33	018.02	3	0.0000	1.07	0.27
002.99	7	0.0000	1.04	0.07	019.00	17	-0.7835	4.14	0.38
003.00	30	-0.0576	3.54	1.26	019.01	59	0.2894	1.95	0.32
003.06	31	-0.0301	1.51	0.42	019.03	7	0.0000	1.02	0.21
003.09	31	0.0062	0.97	0.45	019.05	45	-0.0042	0.96	0.31
003.10	35	-0.5259	3.54	0.34	019.08	5	1.0052	2.37	0.50
003.11	12	-0.0005	0.97	0.29	019.09	30	6.6963	34.74	1.63
003.12	5	0.0000	1.03	0.21	019.99	9	0.6532	2.17	0.85
003.13	3	0.0000	1.05	0.32	020.00	2	0.0000	0.92	0.57
003.14	12	0.0000	0.86	0.53	020.01	8	1.4245	4.14	0.34
003.99	14	2.4358	4.40	1.10	020.99	2	0.0000	1.22	0.10
004.00	32	0.0743	1.83	0.44	021.01	2	2.8284	4.00	0.61
004.03	3	0.0000	1.06	0.28	021.02	13	0.2644	1.35	0.40
004.06	33	-0.0395	0.97	0.24	022.01	31	0.2502	2.48	0.37
004.07	47	-0.0191	0.99	0.21	022.03	35	0.3370	2.20	0.73
004.11	11	-0.9160	2.49	0.45	022.05	29	0.2817	2.37	0.42
004.99	7	0.5950	1.84	0.14	022.99	4	-0.4193	2.84	1.53
005.00	137	0.0223	1.26	0.31	025.01	25	-0.0045	0.96	0.29
005.11	7	-1.7059	3.08	0.22	025.03	35	0.0000	0.98	0.23
005.99	14	6.9408	26.08	0.48	025.05	24	-0.0266	0.98	0.28
008.02	18	0.7616	2.62	0.13	025.99	3	0.0000	0.92	0.51
008.08	25	0.1479	1.07	0.38	026.00	2	0.0000	0.89	0.59
008.99	6	0.0000	1.05	0.07	027.01	29	7.1603	38.47	0.65
009.07	16	0.0000	1.01	0.11	027.03	39	0.1297	1.28	0.47
009.09	20	2.1996	9.67	0.56	027.05	25	0.2762	1.40	0.33
009.99	3	6.6485	11.52	0.80	027.99	4	0.0000	0.96	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
028.01	32	-0.0440	1.48	0.23	104.00	3	0.0000	1.06	0.30
028.03	34	-0.0402	1.06	0.52	106.02	22	206.3171	965.65	49.83
028.05	27	0.5918	3.21	0.43	108.02	2	0.0000	1.22	0.05
028.99	5	0.0000	1.04	0.18	109.02	13	-0.4148	1.77	0.24
031.01	60	5.2168	44.84	0.99	120.00	11	0.4614	1.68	0.38
031.02	5	0.0000	1.03	0.22	121.00	11	0.3291	1.44	0.26
031.03	10	0.0000	1.00	0.22	122.00	11	0.0549	0.98	0.21
031.05	73	-0.0805	1.08	0.32	124.00	9	0.8008	2.59	0.13
031.06	4	0.0000	0.42	0.86	124.02	2	0.0000	1.18	0.23
031.99	10	0.0414	1.88	0.38	125.00	11	0.0000	1.00	0.21
032.01	26	0.1570	1.27	0.28	126.00	11	0.0000	0.98	0.28
032.02	8	0.0000	1.00	0.24	127.00	11	0.2592	1.29	0.21
032.05	63	0.5488	4.87	0.33	128.00	11	0.0000	1.02	0.13
032.99	3	0.0000	1.09	0.20	129.00	11	1.1459	3.92	0.19
033.00	24	1.3695	8.33	8.71	130.00	14	0.0000	1.00	0.17
033.01	39	-0.1582	1.51	0.37	130.05	3	0.0000	1.03	0.36
033.03	9	0.0000	1.00	0.24	131.00	10	0.2032	1.14	0.37
033.05	2	0.0000	1.04	0.46	131.02	2	0.0000	1.21	0.15
033.99	12	0.9153	3.21	0.65	131.05	2	0.0000	1.21	0.13
034.01	2	0.0000	1.06	0.44	132.00	11	-0.0912	1.01	0.20
034.04	6	-4.0211	9.86	0.75	133.00	10	0.0000	0.97	0.33
034.05	4	7.3065	14.64	3.71	134.00	11	0.0000	1.01	0.15
035.00	26	0.4846	1.86	0.64	135.00	11	0.4153	1.65	0.34
035.01	5	0.0000	1.05	0.15	136.01	4	0.4862	1.33	0.50
035.03	61	0.5964	2.09	0.56	136.99	2	0.0000	1.03	0.47
035.05	11	0.0000	1.01	0.13	137.00	8	0.0490	0.97	0.14
035.99	6	1.0104	2.12	0.17	138.00	11	0.0000	1.01	0.16
036.00	2	0.0000	0.00	0.00					
036.03	24	-0.0775	3.43	0.26					
036.04	3	0.0000	1.09	0.20					
037.01	33	0.1272	1.20	0.26					
037.03	37	-0.1866	1.36	0.32					
037.05	28	0.7285	3.84	0.57					
037.99	4	0.0000	1.00	0.36					
038.00	10	2.6051	5.47	1.46					
039.02	5	-0.9096	2.24	0.58					
041.00	3	0.0000	1.09	0.22					
045.00	11	3.3581	11.18	11.96					
045.02	8	0.4604	1.61	0.81					