

Feed Check Sample No. - 200830 Chicken Starter, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 216 Labs - - Pass 2 Results for 216 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
Loss on Drying, Vac 95 deg 5 hr .....	934.01	001.00	13	10.1185	0.54665	0.21354	13	10.1185	0.54665	0.21354
Loss on Drying, ISO 6496 .....		001.03	4	10.0663	0.12293	0.10750	4	10.0663	0.12293	0.10750
Loss on Drying, LECO .....		001.05	1	9.85500	0.00707	0.01000	1	9.85500	0.00707	0.01000
Loss on Drying, 104 deg 3 hr, in malt .	935.29	001.07	36	9.96350	0.44081	0.14106	34	9.98915	0.41936	0.10671
Loss on Drying, 102 deg 16 hr, in meat	950.46	001.08	1	10.0150	0.02121	0.03000	1	10.0150	0.02121	0.03000
Loss on Drying, Misc .....		001.99	17	10.0194	0.55668	0.18682	17	10.0194	0.55668	0.18682
Method Group 001.XX PCT			72	10.0096	0.47407	0.15972	70	10.0234	0.46437	0.14357
Protein, Crude .....	954.01	002.00	5	18.3520	0.16424	0.10400	5	18.3520	0.16424	0.10400
Protein, Auto Kjel-Foss .....	976.05	002.01	11	18.1937	0.12531	0.10173	11	18.1937	0.12531	0.10173
Protein, Semiauto Autoanalyzer .....	976.06	002.02	10	18.2184	0.52602	0.14400	9	18.1466	0.49433	0.09444
Protein, Hach Method .....		002.03	1	18.5750	0.13435	0.19000	1	18.5750	0.13435	0.19000
Protein, Copper Cat .....	984.13	002.04	5	18.0690	0.39806	0.05400	5	18.0690	0.39806	0.05400
Protein, Copper, Boric Acid .....		002.05	21	18.1739	0.26598	0.08913	20	18.1701	0.26619	0.06859
Protein, Combustion Nitrogen Analyzer	990.03	002.06	130	18.4575	0.31840	0.14173	126	18.4413	0.29366	0.12781
Protein, Cu/Ti .....	988.05	002.08	5	18.2192	0.24148	0.08592	5	18.2192	0.24148	0.08592
Protein, Block dig/distillation .....		002.10	9	18.1874	0.28917	0.16933	8	18.1688	0.28427	0.12000
Protein, NIR .....		002.11	13	18.2683	0.37175	0.17015	13	18.2683	0.37175	0.17015
Protein, Misc .....		002.99	5	18.1690	0.28049	0.10200	5	18.1690	0.28049	0.10200
Method Group 002.XX PCT			215	18.3593	0.34049	0.13261	208	18.3458	0.32279	0.11797
Fat, Eth Ext, Direct .....	920.39	003.00	31	4.28568	0.24735	0.08045	29	4.28435	0.24379	0.06393
Fat, Ind Eth Ext (13th ed), Indirect ..	920.39	003.01	1	3.91500	0.43134	0.61000	1	3.91500	0.43134	0.61000
Fat, Pet Ether .....		003.06	27	4.13198	0.22808	0.06567	26	4.13283	0.23144	0.05973
Fat, Soxtec, Eth Ext .....		003.09	24	4.17045	0.17063	0.06322	23	4.17503	0.16891	0.05076
Fat, Soxtec, Pet Ether .....		003.10	28	4.06355	0.14364	0.07674	26	4.08325	0.12076	0.06765
Fat, NIR .....		003.11	15	4.19692	0.28560	0.04329	15	4.19692	0.28560	0.04329
Fat, Hexane Ext. ....		003.12	4	4.14625	0.24512	0.16750	4	4.14625	0.24512	0.16750
Fat, Soxtec, Hexane Ext. ....		003.13	4	4.03288	0.25186	0.14575	4	4.03288	0.25186	0.14575
Fat, Ankom .....		003.14	14	4.09714	0.27409	0.16571	14	4.09714	0.27409	0.16571
Fat, Misc .....		003.99	10	4.13700	0.38293	0.15600	10	4.05700	0.44488	0.07600
Method Group 003.XX PCT			158	4.15573	0.24674	0.09067	151	4.15974	0.24241	0.07878
Fiber, Crude Asbestos Free .....	962.09	004.00	29	3.25829	0.25428	0.11448	27	3.24334	0.24111	0.07556
Fiber, Sing Filt .....		004.01	1	4.15000	0.07071	0.10000	1	4.15000	0.07071	0.10000
Fiber, Fritted Glass .....	978.10	004.03	2	3.57750	0.39305	0.12500	2	3.57750	0.39305	0.12500
Fiber, Fibertec .....		004.06	34	3.45826	0.37135	0.14319	32	3.45925	0.37136	0.11121
Fiber, ANKOM .....		004.07	41	3.07163	0.43458	0.07502	39	3.06236	0.43393	0.05913
Fiber, NIR .....		004.11	14	3.68646	0.30495	0.07264	14	3.68646	0.30495	0.07264
Fiber, Misc .....		004.99	5	3.22580	0.40694	0.21200	5	3.22580	0.40694	0.21200
Method Group 004.XX PCT			126	3.30994	0.42219	0.10866	120	3.30619	0.42377	0.08610
Ash, .....	942.05	005.00	137	5.29134	0.16118	0.06116	127	5.29094	0.15421	0.04527

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Ash, LECO .....		005.02	1	5.40000	0.04243	0.06000	1	5.40000	0.04243	0.06000
Ash, Microwave Furnace .....		005.03	1	5.05000	0.02828	0.04000	1	5.05000	0.02828	0.04000
Ash, NIR .....		005.11	6	5.25994	0.18493	0.09055	6	5.25994	0.18493	0.09055
Ash, Misc .....		005.99	14	5.31088	0.16524	0.12468	14	5.31088	0.16524	0.12468
Method Group 005.XX PCT			159	5.29104	0.16250	0.06772	149	5.29068	0.15673	0.05462
Fiber, Acid Detergent .....	973.18	008.02	17	4.93331	0.67611	0.15573	16	4.95539	0.68800	0.13171
Fiber, Acid Detergent-Hach .....		008.05	1	5.85000	0.21213	0.30000	1	5.85000	0.21213	0.30000
Fiber, Acid Detergent by ANKOM .....		008.08	20	4.38125	0.59347	0.12350	19	4.36447	0.60050	0.09842
Fiber, Acid Detergent Misc .....		008.99	5	4.66600	0.34926	0.19200	5	4.66600	0.34926	0.19200
Method Group 008.XX PCT			43	4.66677	0.67249	0.14831	41	4.66808	0.68581	0.12774
Fiber, Neutral Det-No ENZ Pretreat ....		009.04	2	15.8951	1.02164	1.50860	2	15.8951	1.02164	1.50860
Fiber, Neutral Det-ENZ Pretreat .....		009.07	9	13.3139	0.86904	0.37222	9	13.3139	0.86904	0.37222
Fiber, Neutral Detergent by ANKOM .....		009.09	17	11.8474	0.68834	0.22412	17	11.8474	0.68834	0.22412
Fiber, Neutral Det Misc .....		009.99	5	13.6790	1.61453	0.57000	5	13.6790	1.61453	0.57000
Method Group 009.XX PCT			33	12.7702	1.44999	0.39476	33	12.7702	1.44999	0.39476
Moisture, Karl-Fischer .....	966.20	010.03	4	9.37899	0.37734	0.32647	4	9.37899	0.37734	0.32647
Moisture, NIR .....		010.11	9	10.5316	0.22613	0.19756	9	10.5316	0.22613	0.19756
Moisture, Misc .....		010.99	15	10.1532	0.35431	0.11394	14	10.1642	0.35540	0.07922
Method Group 010.XX PCT			28	10.1642	0.48377	0.17118	27	10.1703	0.48827	0.15530
Loss on Drying, 135 deg 2 hr .....	930.15	011.01	85	10.8638	0.33685	0.08412	78	10.8638	0.32394	0.05898
Loss on Drying, High Temp Methods, Misc		011.99	2	10.7200	0.10863	0.07000	2	10.7200	0.10863	0.07000
Method Group 011.XX PCT			87	10.8605	0.33394	0.08380	80	10.8602	0.32098	0.05926
Starch, Polarimetric (Ewers) .....		012.00	7	40.7014	0.82388	0.29714	7	40.7014	0.82388	0.29714
Starch, Megazyme .....		012.01	2	37.3375	1.61993	0.06500	2	37.3375	1.61993	0.06500
Starch, Enzymatic .....		012.03	2	39.4225	1.75940	1.06500	2	39.4225	1.75940	1.06500
Starch, YSI Analyzer .....		012.04	5	38.3970	1.50921	0.23800	5	38.3970	1.50921	0.23800
Starch, NIR .....		012.11	3	39.8133	1.22997	0.17333	3	39.8133	1.22997	0.17333
Method Group 012.XX PCT			19	39.4661	1.69016	0.31842	19	39.4661	1.69016	0.31842
Fat, Mojonnier, Bak Ext .....	954.02	013.02	30	5.16533	0.37084	0.11733	30	5.16533	0.37084	0.11733
Fat, Roese-Gottlieb .....	932.02	013.03	1	5.25500	0.04950	0.07000	1	5.25500	0.04950	0.07000
Fat, Roese-Gottlieb Modified .....		013.08	1	5.33000	0.15556	0.22000	1	5.33000	0.15556	0.22000
Fat, Soxtec-Acid Hydrolysis .....		013.10	15	4.82347	0.41829	0.18467	15	4.82347	0.41829	0.18467
Fat, NIR-Acid Hydrolysis .....		013.12	2	4.64250	0.03096	0.04500	2	4.64250	0.03096	0.04500
Fat, Pretreat or extended ext, misc ...		013.99	2	5.35500	0.58461	0.06000	2	5.35500	0.58461	0.06000
Method Group 013.XX PCT			51	5.05671	0.42043	0.13314	51	5.05671	0.42043	0.13314
Aluminum, ICP .....		015.00	12	139.829	13.7712	7.91583	11	138.836	13.0447	5.68091
Method Group 015.XX PPM			12	139.829	13.7712	7.91583	11	138.836	13.0447	5.68091
Arsenic, AA, Hydride .....		016.00	1	0.08350	0.00354	0.00500	1	0.08350	0.00354	0.00500
Boron, ICP .....		017.00	8	9.65687	0.81372	0.26125	8	9.65687	0.81372	0.26125

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Boron, Misc .....		017.99	2	9.95750	1.79232	0.24500	2	9.95750	1.79232	0.24500
Method Group 017.XX PPM			10	9.71700	1.02235	0.25800	10	9.71700	1.02235	0.25800
Cadmium, AA .....		018.01	2	0.05500	0.06351	0.00000	2	0.05500	0.06351	0.00000
Cadmium, ICP .....		018.02	2	0.14738	0.00377	0.00275	2	0.14738	0.00377	0.00275
Method Group 018.XX PPM			4	0.10119	0.06460	0.00138	4	0.10119	0.06460	0.00138
Calcium, Ox-Mn04 Vol .....	927.02	019.00	15	0.86939	0.07462	0.03111	15	0.85439	0.08479	0.01845
Calcium, At Abs Spect .....	968.08	019.01	48	0.91101	0.05994	0.01334	47	0.91072	0.06044	0.01256
Calcium, Hach Method .....		019.02	1	0.86500	0.00707	0.01000	1	0.86500	0.00707	0.01000
Calcium, Semiauto (Autoanalyzer) .....		019.03	7	0.97386	0.04766	0.02086	7	0.97386	0.04766	0.02086
Calcium, ICP, Dry Ash.....		019.05	40	0.91355	0.05720	0.01969	36	0.91115	0.05012	0.01391
Calcium, EDTA .....		019.08	4	0.97125	0.05617	0.05750	4	0.97125	0.05617	0.05750
Calcium, ICP, Wet Ash .....		019.09	27	0.92782	0.05032	0.01409	27	0.92782	0.05032	0.01409
Calcium, Misc .....		019.99	9	0.86839	0.08196	0.02294	8	0.87882	0.07852	0.01206
Method Group 019.XX PCT			151	0.91222	0.06444	0.01899	144	0.91246	0.06217	0.01542
Chromium, AA.....		020.00	1	3.40000	0.14142	0.20000	1	3.40000	0.14142	0.20000
Chromium, ICP .....		020.01	8	2.72444	0.63311	0.15662	8	2.72444	0.63311	0.15662
Chromium, Misc .....		020.99	1	3.28500	0.03536	0.05000	1	3.28500	0.03536	0.05000
Method Group 020.XX PPM			10	2.84805	0.61855	0.15030	10	2.84805	0.61855	0.15030
Cobalt, AA .....	968.08	021.01	3	1.07635	0.31924	0.16030	3	1.07635	0.31924	0.16030
Cobalt, ICP .....		021.02	8	0.56580	0.13724	0.05085	8	0.56580	0.13724	0.05085
Cobalt, Misc. ....		021.99	2	0.31450	0.07017	0.02400	2	0.31450	0.07017	0.02400
Method Group 021.XX PPM			13	0.64496	0.31372	0.07198	13	0.64496	0.31372	0.07198
Copper, AA .....	968.08	022.01	28	14.2171	1.35670	0.78800	27	14.2437	1.34352	0.70607
Copper, ICP, Dry Ash .....	968.08	022.03	26	13.5919	1.34993	0.60623	25	13.6599	1.30690	0.52868
Copper, ICP, Wet Ash .....	968.08	022.05	26	13.9951	0.98060	0.73692	23	13.8640	0.79150	0.48522
Copper, Misc .....		022.99	4	13.0690	2.18776	0.60500	4	13.0690	2.18776	0.60500
Method Group 022.XX PPM			84	13.9002	1.32520	0.70721	79	13.8889	1.27664	0.58052
Fluorine, Ion Sel Elect .....	975.08	023.01	1	0.00200	0.00000	0.00000	1	0.00200	0.00000	0.00000
Iron, AA .....	968.08	025.01	22	229.899	19.2604	7.30909	21	230.751	19.0904	6.41905
Iron, ICP, Dry Ash .....	968.08	025.03	25	228.942	11.6556	6.21824	24	228.919	11.4628	5.18567
Iron, ICP, Wet Ash .....	968.08	025.05	21	232.762	19.1078	7.09771	19	234.342	18.7576	4.63432
Iron, Misc .....		025.99	2	219.750	17.7459	8.50000	2	219.750	17.7459	8.50000
Method Group 025.XX PPM			70	230.126	16.8184	6.89011	66	230.785	16.6270	5.51982
Lead, .....		026.00	1	0.10000	0.00000	0.00000	1	0.10000	0.00000	0.00000
Lead, Misc .....		026.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 026.XX PPM			2	0.05000	0.05774	0.00000	2	0.05000	0.05774	0.00000
Magnesium, AA .....	968.08	027.01	26	0.21051	0.01102	0.00608	23	0.21057	0.00941	0.00427
Magnesium, Em Spect .....	953.01	027.02	1	0.21020	0.00721	0.01020	1	0.21020	0.00721	0.01020
Magnesium, ICP, Dry Ash .....	968.08	027.03	29	0.21061	0.01164	0.00357	27	0.21019	0.01111	0.00261

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Magnesium, ICP, Wet Ash .....	968.08	027.05	22	0.21507	0.01139	0.00456	21	0.21528	0.01150	0.00406
Magnesium, Misc. ....		027.99	3	0.21193	0.00699	0.00253	3	0.21193	0.00699	0.00253
Method Group 027.XX PCT			81	0.21183	0.01126	0.00469	75	0.21180	0.01067	0.00363
Manganese, AA .....	968.08	028.01	26	94.6139	9.17253	2.31720	27	93.0845	10.8502	2.37211
Manganese, ICP, Dry Ash .....	968.08	028.03	30	96.6282	5.14009	2.26547	29	96.7430	5.04153	1.88841
Manganese, ICP, Wet Ash .....	968.08	028.05	24	102.680	5.70264	2.87629	22	101.878	4.70519	2.41050
Manganese, Misc. ....		028.99	4	97.1614	10.4506	7.61225	4	97.1614	10.4506	7.61225
Method Group 028.XX PPM			84	97.7591	7.69901	2.71061	80	97.5683	7.36365	2.38114
Mercury, .....		029.00	1	0.00350	0.00071	0.00100	1	0.00350	0.00071	0.00100
Phosphorus, Vol .....	964.06	031.00	1	0.75515	0.00007	0.00010	1	0.75515	0.00007	0.00010
Phosphorus, Photometric .....	965.17	031.01	57	0.74712	0.03500	0.01101	55	0.74702	0.03522	0.00995
Phosphorus, GQMP (2.028) .....	964.06	031.02	6	0.74963	0.01920	0.00703	6	0.74963	0.01920	0.00703
Phosphorus, Autoanalyzer .....		031.03	10	0.75410	0.03496	0.01289	10	0.75410	0.03496	0.01289
Phosphorus, ICP .....		031.05	63	0.75648	0.03943	0.01333	61	0.75564	0.03855	0.01091
Phosphorus, Hach Method .....		031.06	2	0.72250	0.01258	0.01500	2	0.72250	0.01258	0.01500
Phosphorus, Misc .....		031.99	9	0.74296	0.04429	0.02408	9	0.74296	0.04429	0.02408
Method Group 031.XX PCT			148	0.75115	0.03701	0.01274	144	0.75073	0.03663	0.01133
Potassium, AA .....	975.03	032.01	25	0.80912	0.04117	0.01604	24	0.80825	0.04052	0.01254
Potassium, Flame Emission .....	956.01	032.02	7	0.82157	0.07675	0.03886	6	0.80933	0.06925	0.02033
Potassium, STPB .....		032.03	1	0.77500	0.00707	0.01000	1	0.77500	0.00707	0.01000
Potassium, ICP .....		032.05	52	0.82647	0.04102	0.01493	48	0.82621	0.04014	0.01131
Potassium, Misc .....		032.99	4	0.81111	0.06908	0.01677	4	0.81111	0.06908	0.01677
Method Group 032.XX PCT			89	0.81994	0.04642	0.01715	83	0.81845	0.04489	0.01257
Salt, Sol Cl .....	943.01	033.00	20	0.42150	0.03776	0.01390	20	0.42150	0.03776	0.01390
Salt, Poten Cl .....	969.10	033.01	37	0.43089	0.02195	0.00915	34	0.43023	0.02189	0.00673
Salt, Quantab .....		033.03	9	0.40639	0.04682	0.04256	8	0.40531	0.04151	0.02913
Salt, Ion Sel Electrode .....		033.05	1	0.42500	0.00707	0.01000	1	0.42500	0.00707	0.01000
Salt, Misc .....		033.99	8	0.41675	0.04486	0.01125	8	0.41675	0.04486	0.01125
Method Group 033.XX PCT			75	0.42386	0.03362	0.01466	71	0.42337	0.03295	0.01183
Selenium, Fluor .....	969.06	034.01	1	0.45250	0.00636	0.00900	1	0.45250	0.00636	0.00900
Selenium, AA, Hydride .....		034.04	6	0.44967	0.05334	0.01200	5	0.44760	0.05797	0.00640
Selenium, ICP .....		034.05	2	0.34675	0.12357	0.01350	2	0.34675	0.12357	0.01350
Selenium, Misc .....		034.99	1	0.41500	0.00707	0.01000	1	0.41500	0.00707	0.01000
Method Group 034.XX PPM			10	0.42590	0.07633	0.01180	9	0.42211	0.07945	0.00867
Sodium, AA .....		035.00	26	0.15934	0.01308	0.00722	26	0.15934	0.01308	0.00722
Sodium, Ion Sel Electrode .....		035.01	3	0.16013	0.00236	0.00167	3	0.16013	0.00236	0.00167
Sodium, ICP .....		035.03	48	0.15033	0.01479	0.00512	45	0.14976	0.01456	0.00384
Sodium, Flame Emission .....	956.01	035.05	10	0.14995	0.01064	0.00350	10	0.14995	0.01064	0.00350
Sodium, Misc .....		035.99	3	0.14952	0.01134	0.00363	3	0.14952	0.01134	0.00363

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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
Method Group 035.XX PCT			90	0.15319	0.01412	0.00538	87	0.15299	0.01403	0.00473
Sulfur, (Gravimetric) .....		036.00	1	0.24000	0.00000	0.00000	1	0.24000	0.00000	0.00000
Sulfur, ICP .....		036.03	22	0.23753	0.02139	0.00598	22	0.23753	0.02139	0.00598
Sulfur, LECO .....		036.04	2	0.24000	0.01826	0.01000	2	0.24000	0.01826	0.01000
Method Group 036.XX PCT			25	0.23783	0.02055	0.00606	25	0.23783	0.02055	0.00606
Zinc, AA .....	968.08	037.01	30	99.2525	4.97639	2.82062	29	99.1577	4.94795	2.57306
Zinc, ICP, Dry Ash .....	968.08	037.03	29	98.5937	6.54531	2.50876	26	99.3823	5.83595	1.60708
Zinc, ICP, Wet Ash .....	968.08	037.05	25	103.686	9.28387	2.55760	26	104.718	10.4848	2.49769
Zinc, Misc .....		037.99	4	99.0775	8.40946	7.06000	4	99.0775	8.40946	7.06000
Method Group 037.XX PPM			88	100.287	7.34514	2.83583	84	100.571	7.15244	2.48313
Molybdenum, ICP .....		038.00	6	1.45000	0.13191	0.03333	5	1.42500	0.12817	0.01800
Molybdenum, Misc .....		038.99	1	1.50000	0.00000	0.00000	1	1.50000	0.00000	0.00000
Method Group 038.XX PPM			7	1.45714	0.12269	0.02857	6	1.43750	0.11955	0.01500
Nickel, AA .....		039.01	1	1.70000	0.00000	0.00000	1	1.70000	0.00000	0.00000
Nickel, ICP .....		039.02	3	2.16792	0.40907	0.24317	3	2.16792	0.40907	0.24317
Method Group 039.XX PPM			4	2.05094	0.40798	0.18237	4	2.05094	0.40798	0.18237
Barium, ICP .....		040.00	1	5.38500	0.00707	0.01000	1	5.38500	0.00707	0.01000
Vanadium, ICP .....		041.00	3	1.34242	0.16875	0.10883	3	1.34242	0.16875	0.10883
Method Group 041.XX PPM			3	1.34242	0.16875	0.10883	3	1.34242	0.16875	0.10883
Amprolium, Color .....	961.24	045.00	8	0.01024	0.00076	0.00041	7	0.01017	0.00074	0.00026
Amprolium, HPLC .....		045.02	7	0.00953	0.00119	0.00022	7	0.00953	0.00119	0.00022
Amprolium, Misc .....		045.99	1	0.01305	0.00007	0.00010	1	0.01305	0.00007	0.00010
Method Group 045.XX PCT			16	0.01011	0.00126	0.00031	15	0.01006	0.00128	0.00023
Choline Chloride, Chem .....		101.01	1	699.000	12.7279	18.0000	1	699.000	12.7279	18.0000
Choline Chloride, HPLC .....		101.02	1	486.960	24.6639	34.8800	1	486.960	24.6639	34.8800
Method Group 101.XX MG/LB			2	592.980	123.466	26.4400	2	592.980	123.466	26.4400
Niacin, Micro .....	944.13	102.01	1	31.8400	2.05061	2.90000	1	31.8400	2.05061	2.90000
Niacin, HPLC .....		102.02	1	0.02100	0.00000	0.00000	1	0.02100	0.00000	0.00000
Method Group 102.XX PCT			2	15.9305	18.4088	1.45000	2	15.9305	18.4088	1.45000
Pantothenic Acid, Microbiological .....	945.74	103.01	1	9.59500	0.79903	1.13000	1	9.59500	0.79903	1.13000
Riboflavin, Fluorometric .....	970.65	104.00	2	5.28000	1.09032	0.32000	2	5.28000	1.09032	0.32000
Riboflavin, HPLC .....		104.03	1	4.03650	0.19304	0.27300	1	4.03650	0.19304	0.27300
Method Group 104.XX MG/LB			3	4.86550	1.06446	0.30433	3	4.86550	1.06446	0.30433
Thiamine, HPLC .....		105.00	2	1.72250	0.07772	0.10300	2	1.72250	0.07772	0.10300
Method Group 105.XX MG/LB			2	1.72250	0.07772	0.10300	2	1.72250	0.07772	0.10300
Vitamin A, Color .....	974.29	106.00	1	4.20000	0.14142	0.20000	1	4.20000	0.14142	0.20000
Vitamin A, UV .....		106.01	1	4.46800	0.30971	0.43800	1	4.46800	0.30971	0.43800
Vitamin A, HPLC .....		106.02	15	4.63966	1.37417	0.51416	15	4.63966	1.37417	0.51416
Vitamin A, Misc .....		106.99	1	3.70000	0.14142	0.20000	1	3.70000	0.14142	0.20000

Feed Check Sample No. - 200830 Chicken Starter, Medicated  
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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
Method Group 106.XX KU/LB			18	4.55349	1.27439	0.47502	18	4.55349	1.27439	0.47502
Vitamin B12, .....	952.20	107.00	1	15.5800	3.43654	4.86000	1	15.5800	3.43654	4.86000
Vitamin B12, Misc .....		107.99	1	13.0400	0.35355	0.50000	1	13.0400	0.35355	0.50000
Method Group 107.XX MCG/L			2	14.3100	2.47564	2.68000	2	14.3100	2.47564	2.68000
Vitamin D3, HPLC .....	982.29	108.01	1	1.07500	0.20506	0.29000	1	1.07500	0.20506	0.29000
Vitamin D3, HPLC .....		108.02	2	0.70150	0.33814	0.07100	2	0.70150	0.33814	0.07100
Method Group 108.XX KU/LB			3	0.82600	0.33795	0.14400	3	0.82600	0.33795	0.14400
Vitamin E, HPLC .....		109.02	9	40.4578	4.43037	2.61788	8	40.6650	4.20139	1.54511
Vitamin E, Misc .....		109.99	1	43.5000	0.70711	1.00000	1	43.5000	0.70711	1.00000
Method Group 109.XX MG/KG			10	40.7620	4.29711	2.45609	9	40.9800	4.05523	1.48454
Pyridoxine, Misc .....		112.99	1	3.40600	0.06364	0.09000	1	3.40600	0.06364	0.09000
Folic Acid, .....	944.12	113.01	1	0.76400	0.00849	0.01200	1	0.76400	0.00849	0.01200
Biotin, Microbiological .....		114.01	1	0.20150	0.04596	0.06500	1	0.20150	0.04596	0.06500
Alanine, Post-col Ninhydrin Der .....	994.12	120.00	8	0.97794	0.04003	0.00988	8	0.97794	0.04003	0.00988
Alanine, Misc .....		120.99	1	0.94000	0.01697	0.02400	1	0.94000	0.01697	0.02400
Method Group 120.XX PCT			9	0.97372	0.03977	0.01144	9	0.97372	0.03977	0.01144
Arginine, Post-col Ninhydrin Der .....	994.12	121.00	9	1.08296	0.06218	0.02660	9	1.08296	0.06218	0.02660
Arginine, Misc .....		121.99	1	1.06350	0.01909	0.02700	1	1.06350	0.01909	0.02700
Method Group 121.XX PCT			10	1.08101	0.05928	0.02664	10	1.08101	0.05928	0.02664
Aspartic, Post-col Ninhydrin Der .....	994.12	122.00	9	1.56747	0.07039	0.01329	9	1.56747	0.07039	0.01329
Aspartic, Misc .....		122.99	1	1.56650	0.00071	0.00100	1	1.56650	0.00071	0.00100
Method Group 122.XX PCT			10	1.56737	0.06659	0.01206	10	1.56737	0.06659	0.01206
Glutamic Acid, Misc .....		123.99	1	3.04550	0.06152	0.08700	1	3.04550	0.06152	0.08700
Cysteine/Cystine, PAO Post-col Ninhydrin Der .....	994.12	124.00	7	0.33064	0.01879	0.00671	7	0.33064	0.01879	0.00671
Cysteine/Cystine, PAO Post-col OPA Der .....		124.02	1	0.28000	0.01414	0.02000	1	0.28000	0.01414	0.02000
Cysteine/Cystine, PAO Pre-col AQC Der .....		124.05	1	0.35500	0.00707	0.01000	1	0.35500	0.00707	0.01000
Cysteine/Cystine, Misc .....		124.99	1	0.28250	0.00071	0.00100	1	0.28250	0.00071	0.00100
Method Group 124.XX PCT			10	0.32320	0.02780	0.00780	10	0.32320	0.02780	0.00780
Glutamic, Post-col Ninhydrin Der .....	994.12	125.00	9	3.23061	0.17145	0.05252	9	3.23061	0.17145	0.05252
Method Group 125.XX PCT			9	3.23061	0.17145	0.05252	9	3.23061	0.17145	0.05252
Glycine, Post-col Ninhydrin Der .....	994.12	126.00	7	0.75879	0.02796	0.01529	7	0.75879	0.02796	0.01529
Glycine, Misc .....		126.99	1	0.72250	0.00919	0.01300	1	0.72250	0.00919	0.01300
Method Group 126.XX PCT			8	0.75425	0.02893	0.01500	8	0.75425	0.02893	0.01500
Histidine, Post-col Ninhydrin Der .....	994.12	127.00	9	0.47386	0.03476	0.01391	9	0.47386	0.03476	0.01391
Histidine, Misc .....		127.99	1	0.45250	0.00495	0.00700	1	0.45250	0.00495	0.00700
Method Group 127.XX PCT			10	0.47172	0.03355	0.01322	10	0.47172	0.03355	0.01322
Isoleucine, Post-col Ninhydrin Der ....	994.12	128.00	9	0.66834	0.06848	0.03256	8	0.66814	0.06953	0.02163
Isoleucine, Misc .....		128.99	1	0.66200	0.00283	0.00400	1	0.66200	0.00283	0.00400
Method Group 128.XX PCT			10	0.66771	0.06481	0.02970	9	0.66746	0.06535	0.01967

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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
Leucine, Post-col Ninhydrin Der	994.12	129.00	9	1.58396	0.07233	0.02513	9	1.58396	0.07233	0.02513
Leucine, Misc		129.99	1	1.55300	0.02970	0.04200	1	1.55300	0.02970	0.04200
Method Group 129.XX PCT			10	1.58086	0.06942	0.02682	10	1.58086	0.06942	0.02682
L-Lysine, Post-col Ninhydrin Der	994.12	130.00	14	0.92530	0.08399	0.03479	12	0.91972	0.07960	0.01484
L-Lysine, Pre-col OPA Der		130.01	1	0.91000	0.01414	0.02000	1	0.91000	0.01414	0.02000
L-Lysine, Pre-col AQC Der		130.05	3	0.93267	0.05656	0.01000	3	0.93267	0.05656	0.01000
L-Lysine, Misc		130.99	1	0.88200	0.00566	0.00800	1	0.88200	0.00566	0.00800
Method Group 130.XX PCT			19	0.92338	0.07553	0.02869	17	0.91921	0.07092	0.01389
Methionine, PAO Post-col Ninhydrin Der	994.12	131.00	9	0.33006	0.02519	0.01450	8	0.33088	0.02519	0.01025
Methionine, PAO Pre-col OPA Der		131.01	1	0.35500	0.00707	0.01000	1	0.35500	0.00707	0.01000
Methionine, PAO Post-col OPA Der		131.02	1	0.32000	0.01414	0.02000	1	0.32000	0.01414	0.02000
Methionine, PAO Pre-col AQC Der		131.05	2	0.35750	0.00957	0.00500	2	0.35750	0.00957	0.00500
Methionine, Misc		131.99	2	0.30625	0.03034	0.00150	2	0.30625	0.03034	0.00150
Method Group 131.XX PCT			15	0.33154	0.02674	0.01157	14	0.33211	0.02682	0.00893
Phenylalanine, Post-col Ninhydrin Der	994.12	132.00	9	0.86064	0.05764	0.01638	8	0.86979	0.05350	0.01155
Phenylalanine, Misc		132.99	1	0.89400	0.01838	0.02600	1	0.89400	0.01838	0.02600
Method Group 132.XX PCT			10	0.86398	0.05564	0.01734	9	0.87248	0.05106	0.01316
Proline, Post-col Ninhydrin Der	994.12	133.00	7	1.16298	0.05366	0.02421	7	1.16298	0.05366	0.02421
Method Group 133.XX PCT			7	1.16298	0.05366	0.02421	7	1.16298	0.05366	0.02421
Serine, Post-col Ninhydrin Der	994.12	134.00	9	0.85056	0.04613	0.01882	9	0.85056	0.04613	0.01882
Serine, Misc		134.99	1	0.80800	0.01556	0.02200	1	0.80800	0.01556	0.02200
Method Group 134.XX PCT			10	0.84630	0.04570	0.01914	10	0.84630	0.04570	0.01914
Threonine, Post-col Ninhydrin Der	994.12	135.00	9	0.66487	0.03574	0.01887	8	0.66366	0.03347	0.00910
Threonine, Pre-col AQC Der		135.05	1	0.67500	0.00707	0.01000	1	0.67500	0.00707	0.01000
Threonine, Misc		135.99	1	0.62650	0.01202	0.01700	1	0.62650	0.01202	0.01700
Method Group 135.XX PCT			11	0.66230	0.03445	0.01789	10	0.66108	0.03235	0.00998
Tryptophan, Alka-Hydrol Post-col Ninhyd	988.15	136.00	1	0.21450	0.00495	0.00700	1	0.21450	0.00495	0.00700
Tryptophan, Alka-Hydrol Rev Phase LC UV		136.01	4	0.22728	0.02768	0.00320	4	0.22728	0.02768	0.00320
Tryptophan, Misc		136.99	3	0.19267	0.01512	0.01067	3	0.19267	0.01512	0.01067
Method Group 136.XX PCT			8	0.21270	0.02664	0.00648	8	0.21270	0.02664	0.00648
Tyrosine, Post-col Ninhydrin Der	994.12	137.00	6	0.62327	0.06764	0.01400	6	0.62327	0.06764	0.01400
Method Group 137.XX PCT			6	0.62327	0.06764	0.01400	6	0.62327	0.06764	0.01400
Valine, Post-col Ninhydrin Der	994.12	138.00	8	0.84301	0.04830	0.02675	7	0.84630	0.04521	0.01343
Valine, Misc		138.99	1	0.80100	0.00283	0.00400	1	0.80100	0.00283	0.00400
Method Group 138.XX PCT			9	0.83834	0.04736	0.02422	8	0.84064	0.04485	0.01225
Taurine, Post-col Ninhydrin Der	994.12	139.00	1	0.06000	0.01414	0.02000	1	0.06000	0.01414	0.02000
Taurine, Misc		139.99	1	0.00000	0.00000	0.00000	1	0.00000	0.00000	0.00000
Method Group 139.XX PCT			2	0.03000	0.03559	0.01000	2	0.03000	0.03559	0.01000
Lysine, Free (Available)	975.44	140.00	1	0.09600	0.00000	0.00000	1	0.09600	0.00000	0.00000

Feed Check Sample No. - 200830 Chicken Starter, Medicated  
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<u>Method</u>	<u>AOAC</u> <u>18th</u>	<u>Method</u> <u>Code</u>	<u>No.</u> <u>of</u> <u>Labs</u>	<u>Grand</u> <u>Avg.</u>	<u>Std.</u> <u>Dev.</u>	<u>Average</u> <u>Range</u> <u>of Dups</u>	<u>No.</u> <u>of</u> <u>Labs</u>	<u>Grand</u> <u>Avg.</u>	<u>Std.</u> <u>Dev.</u>	<u>Average</u> <u>Range</u> <u>of Dups</u>
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## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.00	--	--	Method 001.07	--	--	Method 001.99	--	--	Method 002.02	--	--	Method 002.05	--
504	11.055	1.83	089	10.155	.40	405	10.265	.45	307	19.750 s	3.67	855	18.150	-.53
509	10.875	1.38	849	10.150	.39	630	10.235	.39	187	19.310	2.35	039	17.970	-.75
001	10.630	.94	588	10.110	.29	631	10.100	.15	048	18.865 R	1.57	847	17.945	-.86
169	10.410	.53	178	10.000	.24	Avg	10.019		669	18.570	.87	083	17.935	-.89
309	10.330	.40	689	10.000	.24	729	9.9950	-.12	152	18.150	.10	722	17.929	-.91
720	10.140	.15	083	10.050	.19	619	9.9450	-.14	Avg	18.147		674	17.925	-.99
Avg	10.118		187	10.050	.15	676	9.7790	-.45	297	18.030	-.24	596	17.900	-1.01
844	9.9800	-.26	035	10.020	.07	693	9.8150	-.56	042	18.005	-.36	625	17.895	-1.06
859	9.9150	-.38	Avg	9.9891		853	9.5550	-.84	036	17.889	-.52	552	17.800	-1.39
733	9.9000	-.40	669	9.9450	-.11	096	9.4500	-1.03	033	17.870	-.56			
029	9.9300	-.53	278	9.9750	-.18	536	9.1350	-1.67	169	17.835	-.63	--	Method 002.06	--
785	9.6750	-.89	675	9.8850	-.27	541	8.8150	-2.21	043	17.660	-1.01	018	19.450 s	3.44
560	9.5500	-1.05	045	9.7150	-.65							782	19.390	3.23
596	9.1500	-1.83	609	9.7000	-.73	--	Method 002.00	--	--	Method 002.03	--	190	19.385 s	3.22
			297	9.6800	-.76	845	18.620	1.72	536	18.575	-.71	616	19.360 A	3.13
--	Method 001.03	--	004	9.9400 R	-.82	826	18.370	.38				511	19.340 A	3.08
567	10.100	.86	171	9.6000	-.93	Avg	18.352		--	Method 002.04	--	047	18.650 R	2.65
688	10.150	.79	048	9.5800	-1.00	015	18.315	-.40	504	18.390	.81	013	19.055	2.12
686	10.115	.45	353	9.5300	-1.10	199	18.240	-.72	018	18.335	.68	363	19.050	2.07
Avg	10.066		074	9.5000	-1.17	028	18.215	-.84	509	18.315	.62	645	19.050	2.07
731	9.9000	-1.39	366	9.3500	-1.53				Avg	18.069		407	19.000	1.92
			307	9.1300	-2.08	--	Method 002.01	--	596	17.900	-.42	733	19.000	1.90
--	Method 001.05	--	015	9.0600	-2.22	714	18.867 s	8.01	405	17.405	-1.68	345	18.905	1.59
610	9.8550	-.71	038	9.1150 R	-2.28	723	18.355	1.29				760	18.900	1.57
			591	8.4300 S	-3.72	656	18.305	1.03	--	Method 002.05	--	574	18.860	1.43
--	Method 001.07	--	845	7.9900 s	-5.16	652	18.200	.80	401	19.770 s	6.01	049	18.814	1.29
653	11.220	2.94	618	6.9056 s	-9.43	716	18.200	.80	852	18.850	2.56	843	18.820	1.29
142	10.500	1.24	345	4.4750 s	-13.15	098	18.200	.80	651	18.512	1.28	185	18.805	1.24
559	10.425	1.04				731	18.245	.60	178	18.250 R	.99	541	18.750	1.23
199	10.410	1.00	--	Method 001.08	--	350	18.231	.33	622	18.382	.80	554	18.760	1.12
014	10.280	.79	590	10.015	-.71	710	18.205	.10	849	18.365	.74	646	18.700	1.09
049	10.260	.68				Avg	18.194		591	18.320	.68	032	18.750	1.06
616	10.260	.65	--	Method 001.99	--	653	18.135	-.55	621	18.350	.68	233	18.750	1.05
139	10.250	.62	665	10.810	1.42	043	18.125	-.81	856	18.315	.55	712	18.745	1.04
550	10.226	.60	615	10.755	1.38	848	17.930	-2.10	689	18.300	.49	014	18.735	1.03
413	10.150	.52	505	10.560	.98				194	18.285	.44	647	18.735	1.01
843	10.160	.41	357	10.420	.72				354	18.205	.13	615	18.695	.99
098	10.150	.40	786	10.400	.71				Avg	18.170		108	18.650	.92
571	10.155	.40	656	10.295	.52				658	18.070	-.39	096	18.710	.92

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 002.06	--	--	Method 002.06	--	--	Method 002.06	--	--	Method 002.10	--	--	Method 003.00	--
827	18.520 R	.89	354	18.475	.13	550	18.210	-.79	629	18.690	1.83	509	4.8750	2.42
692	18.700	.88	034	18.460	.09	168	18.340	-.79	727	18.337 R	1.16	106	4.6850	1.65
505	18.615	.82	746	18.465	.08	265	18.205	-.81	729	18.375	.95	015	4.5500 R	1.29
738	18.675	.80	106	18.455	.07	142	18.200	-.82	619	18.300	.46	726	4.5946	1.27
202	18.665	.77	Avg	18.441		045	18.250	-.83	Avg	18.169		309	4.5350	1.15
413	18.650	.73	148	18.435	-.03	139	18.170	-.92	675	18.075	-.33	190	4.4850	.88
773	18.610	.73	089	18.430	-.04	598	18.155	-.99	546	18.135	-.39	354	4.4500	.68
791	18.488	.69	144	18.420	-.08	366	18.150	-1.01	688	18.050	-.45	139	4.4050	.52
006	18.635	.66	573	18.420	-.13	021	18.205	-1.02	596	17.900	-.95	848	4.3400	.43
029	18.620	.64	735	18.400	-.14	242	18.130	-1.06	631	17.825	-1.29	307	4.3000	.42
205	18.485	.58	199	18.395	-.17	785	18.125	-1.09				164	4.3550	.29
164	18.610	.58	035	18.400	-.17	004	18.120	-1.09	--	Method 002.11	--	337	4.3450	.29
660	18.475	.57	670	18.380	-.21	357	18.125	-1.10	048	20.395 s	5.73	175	4.3400	.24
618	18.470	.55	298	18.360	-.28	510	18.100	-1.16	032	20.110 S	4.95	039	4.3060	.12
003	18.585	.54	036	18.360	-.29	009	18.080	-1.30	178	18.950	1.88	194	4.2900	.05
853	18.575	.51	121	18.365	-.34	098	18.050	-1.34	553	18.635	1.20	Avg	4.2843	
229	18.580	.49	610	18.350	-.35	358	18.030	-1.43	567	18.550	.77	048	4.2800	-.02
588	18.575	.47	619	18.350	-.35	567	18.000	-1.54	665	18.490	.60	035	4.2650	-.10
529	18.575	.46	650	18.440	-.37	676	18.020	-1.56	011	18.450	.51	033	4.2800	-.17
609	18.575	.46	589	18.360	-.41	309	18.010	-1.61	727	18.398	.35	563	4.2430	-.20
686	18.495	.43	337	18.340	-.44	226	17.950	-1.68	Avg	18.268		265	4.2350	-.20
825	18.550	.41	100	18.305	-.47	539	17.915	-1.80	663	18.200	-.19	345	4.2500	-.25
037	18.525	.41	294	18.300	-.48	559	17.925	-1.82	536	18.155	-.38	017	4.2550	-.26
171	18.500	.39	805	18.440	-.54	119	17.900	-1.84	724	18.110	-.49	512	4.2075	-.38
278	18.500	.39	857	18.430	-.55	596	17.900	-1.84	688	18.100	-.70	300	4.1750	-.45
019	18.525	.38	630	18.280	-.55	122	17.875	-1.94	297	17.950	-.86	187	4.1450	-.57
682	18.550	.37	674	18.305	-.57	043	17.700	-2.56	731	17.925	-.92	596	4.1000	-.76
755	18.520	.34	011	18.420	-.58	074	17.200 s	-4.24	588	17.575	-1.92	152	4.0800	-.84
811	18.530	.30	175	18.300	-.59	859	17.072 s	-4.67				615	4.0600 R	-1.11
504	18.465	.30	353	18.265	-.61				--	Method 002.99	--	026	3.9600	-1.33
726	18.523	.28	010	18.325	-.63	--	Method 002.08	--	065	18.565	1.42	353	3.8650	-1.73
300	18.455	.26	042	18.265	-.64	062	18.470	1.04	305	18.335	.59	142	3.6000	-2.81
038	18.475	.25	673	18.250	-.67	563	18.351	.55	Avg	18.169		616	3.4950 s	-3.24
425	18.495	.22	720	18.240	-.69	610	18.300	.53	643	18.110	-.30	849	3.4800 s	-3.30
813	18.450	.21	822	18.235	-.70	Avg	18.219		724	18.000	-.60			
179	18.465	.17	160	18.225	-.75	208	18.150	-.35	693	17.835	-1.30	--	Method 003.01	--
590	18.450	.17	512	18.305	-.76	160	17.825	-1.65				504	3.9150	-.71
026	18.460	.15	786	18.360	-.77									
520	18.475	.14	571	18.260	-.77									

\* 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 003.06	--	--	Method 003.09	--	--	Method 003.10	--	--	Method 003.13	--	--	Method 004.00	--
852	4.6000	2.06	673	4.3000	.74	098	4.0550	-.66	011	5.0250 S	3.94	353	4.8000 s	6.50
688	4.5500	1.82	004	4.2600	.56	089	4.0000	-.69	646	4.2200	.74	265	3.4700 R	1.87
689	4.4000	1.23	590	4.1900	.37	363	4.0000	-.71	205	4.1515	.49	345	3.6500	1.70
229	4.4100	1.20	027	4.2100	.22	242	3.9650	-.98	028	4.0850	.30	511	3.4500 R	1.35
588	4.3450	.93	350	4.2082	.20	119	3.9600	-1.05	Avg	4.0329		559	3.5650	1.34
074	4.3350	.87	Avg	4.1750		045	4.0250	-1.07	660	3.6750	-1.62	226	3.5500	1.29
847	4.2250	.54	098	4.1750	-.03	598	3.9500	-1.11				596	3.5000	1.06
511	4.2450	.50	620	4.1499	-.15	855	3.9200	-1.36	--	Method 003.14	--	337	3.4700	.97
185	4.2200	.39	674	4.1300	-.27	202	3.9100	-1.44	843	4.9350 s	3.17	563	3.4552	.88
669	4.2000	.34	358	4.1500	-.50	720	3.9100	-1.46	108	4.6350	2.05	190	3.4100	.71
003	4.1650	.18	675	4.0800	-.57	591	3.9350 R	-1.66	049	4.3400	.96	208	3.3700	.53
658	4.1535	.15	554	4.0950	-.65	609	3.6800 A	-3.38	413	4.2000	.82	510	3.3500	.49
148	4.1650	.14	226	4.0500	-.80	160	3.5850 s	-4.14	021	4.2850	.75	309	3.2550	.36
559	4.1550	.10	722	4.0176	-.95				407	4.2800	.67	354	3.3000	.25
Avg	4.1328		510	4.0000	-1.04	--	Method 003.11	--	529	4.2150	.43	199	3.2950	.22
552	4.1100	-.11	121	3.9850	-1.14	663	4.8300	2.22	019	4.1650	.26	425	3.2500	.21
625	4.0850	-.23	029	4.0650 R	-1.22	727	4.5289	1.17	Avg	4.0971		164	3.2500	.21
199	4.0450	-.38	013	3.9400	-1.39	553	4.4700	.96	185	4.0600	-.20	726	3.2601	.12
425	4.0400	-.40	001	3.8150	-2.13	665	4.3850	.66	550	3.9700	-.47	Avg	3.2433	
009	4.1100 R	-.49				567	4.3500	.56	144	4.0050	-.51	169	3.2200	-.11
731	4.0050	-.55	--	Method 003.10	--	048	4.2900	.33	686	3.9300	-.61	015	3.2150	-.22
647	3.9450	-.81	618	5.2528 s	10.87	178	4.2000	.01	175	3.7900	-1.14	509	3.1750	-.34
567	3.9500	-.82	676	4.2930	1.74	Avg	4.1969		853	3.7850	-1.27	171	3.2000	-.38
297	3.9300	-.88	727	4.2383	1.62	297	4.1200	-.28	278	3.7000	-1.62	034	3.1450	-.45
305	3.9300	-.89	573	4.2480	1.40	011	4.1000	-.34				298	3.1100	-.55
294	3.8650	-1.17	208	4.2300	1.28	724	4.0750	-.43	--	Method 003.99	--	175	3.1100	-.57
122	3.7600	-1.62	178	4.2000	1.27	536	4.0400	-.55	856	5.6100 S	3.49	042	3.1350	-.63
682	3.6200	-2.22	298	4.1800	.81	032	4.0350	-.57	724	4.9050	1.91	194	3.0550	-.78
574	3.3750 s	-3.27	366	4.1500	.69	731	4.0150	-.68	712	4.0850 R	.93	009	2.9800	-1.11
621	2.7950 s	-5.78	042	4.1500	.56	688	3.8500	-1.23	536	4.3100	.60	504	2.7450	-2.07
			034	4.1400	.47	588	3.6650	-1.86	631	4.2800	.51	048	2.5500	-2.88
--	Method 003.09	--	619	4.1200	.45				169	4.2050	.40	647	1.5100 s	-7.21
714	5.0820 s	5.70	062	4.0960	.42	--	Method 003.12	--	738	4.2150	.36			
505	4.4700	1.79	100	4.1200	.32	670	4.4800	1.40	693	4.1950	.32	--	Method 004.01	--
630	4.4250	1.49	728	4.1000	.28	Avg	4.1463		Avg	4.1428		366	4.8000 S	9.62
651	4.4250	1.48	233	4.1100	.28	171	4.0550	-.39	047	3.8000	-.58	Avg	4.1500	
723	4.3350	.95	623	4.0891	.19	357	4.0000	-.60	786	3.7900	-.63	855	4.1500	-.71
354	4.3250	.89	Avg	4.0832		520	4.0500	-1.02	546	3.5850	-1.06			
656	4.2900	.80	629	4.0050	-.65				710	3.2850 S	-1.74			

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 004.03	--	--	Method 004.06	--	--	Method 004.07	--	--	Method 005.00	--	--	Method 005.00	--
045	3.9100	.88	670	2.7300	-1.96	229	2.7500	-.73	345	5.5650	1.78	682	5.3800	.58
Avg	3.5775					646	2.6950	-.86	226	5.5500	1.71	062	5.3750	.57
619	3.2450	-.85	--	Method 004.07	--	202	2.4800	-1.35	337	5.5350	1.59	773	5.3400	.55
			019	4.1400	2.48	242	2.4650	-1.38	567	5.5000 R	1.50	363	5.3700	.53
--	Method 004.06	--	294	4.0200	2.21	100	2.2900	-1.78	726	5.5176	1.49	350	5.3682	.52
552	4.1250	1.79	407	3.9800	2.11	160	2.2850	-1.79	720	5.4700 R	1.47	298	5.3700	.52
609	4.0450	1.58	089	3.8600	1.84				619	5.5100	1.43	852	5.3500	.50
588	4.0300	1.54	610	3.7500	1.59	--	Method 004.11	--	413	5.5000	1.36	164	5.3650	.49
845	3.9950	1.53	074	3.6100 R	1.32	663	4.1850	1.63	185	5.5000	1.36	229	5.3600	.49
675	3.9750	1.42	185	3.4800	.97	048	4.1250	1.44	357	5.5000	1.36	187	5.3600	.47
716	3.9800	1.41	643	3.4450	.88	032	4.0750	1.28	297	5.5000	1.36	735	5.3350	.46
720	3.6100 R	.86	682	3.3000	.55	567	3.9500	.88	178	5.3000 R	1.30	625	5.3600	.45
205	3.6800	.77	631	3.2450	.42	727	3.8355	.49	827	5.2950 R	1.20	646	5.3500	.43
625	3.7100	.72	003	3.2250	.38	Avg	3.6865		723	5.4750	1.19	048	5.3550	.43
029	3.6650	.60	028	3.2000	.32	665	3.6500	-.12	845	5.4700	1.16	660	5.3100	.41
591	3.6200	.46	669	3.1450	.26	724	3.6500	-.14	588	5.4700	1.16	686	5.3500	.40
722	3.5704	.32	033	3.1250	.15	178	3.6500	-.20	049	5.3450 R	1.13	148	5.3450	.39
354	3.5350	.20	567	3.1000	.09	536	3.5750	-.37	731	5.4600	1.10	848	5.3100	.35
710	3.5300	.19	026	3.1000	.09	731	3.5750	-.38	722	5.4587	1.09	785	5.3150	.33
848	3.4950	.18	278	3.1000	.09	688	3.4500	-.79	142	5.4500	1.08	171	5.3400	.32
620	3.4877	.16	Avg	3.0624		553	3.3400	-1.15	647	5.4500	1.08	265	5.3350	.29
621	3.4750	.06	122	3.0450	-.05	011	3.3000	-1.31	710	5.4500	1.03	651	5.3330	.28
Avg	3.4593		686	2.9850	-.20	588	3.2500	-1.44	856	5.4350	.96	674	5.3300	.25
098	3.4550	-.23	042	2.9850	-.25				688	5.4000 R	.96	559	5.3050	.24
674	3.3900	-.28	413	3.0000	-.27	--	Method 004.99	--	656	5.3450 R	.94	529	5.3200	.23
723	3.3550	-.29	098	2.9250	-.34	693	3.8650	1.73	669	5.4300	.90	630	5.3000	.20
590	3.3400	-.32	144	2.9150	-.34	727	3.2290	.47	353	5.4100	.90	621	5.3150	.16
673	3.3500	-.32	004	2.9000	-.37	Avg	3.2258		590	5.4250	.87	202	5.3100	.14
350	3.3080	-.41	096	2.9000	-.37	536	3.2100	-.11	029	5.4150	.82	038	5.3100	.14
653	3.2500	-.58	035	2.8900	-.40	629	3.0000	-.55	045	5.4100	.77	631	5.3050	.13
027	3.2250	-.63	529	2.8750	-.43	724	2.8250	-.98	653	5.4050	.74	805	5.2950	.04
689	3.2000	-.70	505	2.8900	-.46				622	5.4037	.73	152	5.2950	.04
656	3.2050	-.71	032	2.8600	-.47	--	Method 005.00	--	510	5.4000	.71	Avg	5.2909	
178	3.2000	-.75	013	2.8500	-.49	121	55.089 s	322.91	712	5.3850	.71	505	5.2700	-.15
688	3.1500	-.84	554	2.8500	-.50	591	19.785 s	93.99	729	5.3950	.69	643	5.2600	-.21
849	3.2750 R	-1.13	307	2.8000	-.60	307	5.7100	2.74	504	5.3600	.69	300	5.2750	-.25
610	2.9500	-1.43	520	2.8950 R	-.63	676	5.6800	2.56	620	5.3950	.68	034	5.2500	-.27
598	2.8550	-1.63	708	2.7850	-.64	407	5.6100	2.08	746	5.3900	.67	015	5.2500	-.30
731	2.8150	-1.74	121	2.7970	-.64	629	5.5700	1.81	689	5.3900	.64	563	5.2425	-.35

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 005.00	--	--	Method 005.00	--	--	Method 005.99	--	--	Method 008.05	--	--	Method 009.07	--
278	5.2300	-.40	089	5.1100	-1.17	716	6.3000 s	5.99	265	5.8500	.71	045	14.400	1.27
596	5.2500	-.42	539	5.1200	-1.17	727	5.5973	1.73				226	14.250	1.25
083	5.2500	-.42	520	5.1100	-1.19	724	5.4450	.81	--	Method 008.08	--	675	13.935	.73
366	5.2500	-.42	019	5.1000	-1.24	096	5.4000	.81	106	5.5050	1.90	307	13.850	.64
755	5.2150	-.49	139	5.0950	-1.27	847	5.3250	.58	510	5.2000	1.40	297	13.540	.29
552	5.2200	-.50	811	5.0950	-1.27	673	5.4000	.54	001	5.0300	1.11	Avg	13.314	
175	5.2150	-.52	199	5.0850	-1.34	693	5.3950	.51	033	4.9050	.91	309	12.715	-.71
760	5.2100	-.53	623	5.0900	-1.37	536	5.3550	.38	413	4.7000 R	.75	353	12.620	-.81
305	5.2250	-.56	026	5.0750	-1.40	574	5.3450	.26	278	4.8000	.74	098	12.450	-1.03
650	5.2250	-.60	358	5.0750	-1.44	Avg	5.3109		026	4.7650	.67	187	12.065	-1.44
108	5.2600	-.62	658	5.0630	-1.48	546	5.2550	-.67	294	4.7250	.60			
661	5.1950	-.62	733	5.0450	-1.60	122	5.1750	-.84	357	4.5500	.40	--	Method 009.09	--
401	5.1900	-.66	309	5.0400	-1.66	065	5.1550	-1.10	049	4.5150	.25	294	13.490	2.39
675	5.1900	-.68	021	5.0150	-1.81	652	5.3000	-1.21	037	4.4450	.13	413	12.600	1.18
294	5.1850	-.69	160	4.9850	-2.00	208	5.0950	-1.31	Avg	4.3645		510	12.450	.90
100	5.1850	-.69	615	4.9300	-2.38	728	5.1100	-1.59	004	4.1500	-.36	265	12.200	.59
609	5.1850	-.69	853	4.7950 A	-3.22	826	4.7250 s	-3.78	646	4.1550	-.40	357	12.200	.53
035	5.1800	-.72	618	4.4712 s	-5.39				185	4.0300	-.56	202	12.205	.52
098	5.1800	-.76	354	4.3550 s	-8.91	--	Method 008.02	--	202	4.0300	-.58	653	12.205	.52
822	5.1800	-.76				171	6.3800	2.07	653	3.9950	-.62	Avg	11.847	
670	5.1700	-.79	--	Method 005.02	--	226	5.7500	1.16	354	3.7000	-1.11	164	11.750	-.16
144	5.1700	-.79	610	5.4000	-.71	728	5.6650	1.07	164	3.6500	-1.19	646	11.735	-.16
541	5.2750 R	-.82				675	5.3000	.55	160	3.3950	-1.61	037	11.690	-.26
813	5.1650	-.82	--	Method 005.03	--	148	5.2500	.43	686	3.3800	-1.64	049	11.690	-.43
205	5.1575	-.87	738	5.0500	-.71	038	5.0350	.12				185	11.540	-.60
855	5.1550	-.88				405	4.9800	.08	--	Method 008.99	--	160	11.395	-.67
242	5.1450	-.95	--	Method 005.11	--	187	4.9600	.03	307	5.1500	1.39	686	11.265	-.85
004	5.2400 R	-.97	663	9.3800 s	22.28	Avg	4.9554		693	4.8850	.86	278	11.300	-.85
645	5.1500	-.97	688	6.0500 S	4.28	045	4.9100	-.17	Avg	4.6660		354	11.230	-.90
849	5.1400	-.98	727	5.5197	1.41	504	4.8200	-.20	297	4.5500	-.34	106	10.460	-2.02
598	5.1350	-1.01	178	5.4500	1.06	098	4.8800	-.24	610	4.4500	-.63			
616	5.1350	-1.02	Avg	5.2599		035	4.7500	-.30	358	4.2950	-1.14	--	Method 009.99	--
001	5.1350	-1.02	731	5.2450	-.09	309	4.6050	-.52				619	15.350	1.04
782	5.1300	-1.05	048	5.1400	-.66	353	4.5800 R	-.67	--	Method 009.04	--	610	14.750	.78
027	5.1250	-1.08	536	5.1100	-.87	726	4.4213	-.78	504	16.050	1.17	728	14.500	.52
550	5.1250	-1.08	724	5.0950	-1.09	619	4.3600	-.87	Avg	15.895		Avg	13.679	
194	5.1250	-1.08	588	4.4950 S	-4.54	179	3.2200	-2.52	726	15.740	-.35	693	12.205	-.93
033	5.1250	-1.08	665	4.2750 S	-5.33							643	11.590	-1.30
425	5.1200	-1.11												

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

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 010.03	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 011.01	--	--	Method 012.04	--
027	9.6900	.98	108	11.660 R	2.52	674	10.945	.30	722	10.284	-1.79	106	40.650	1.50
826	9.5950	.72	596	11.450	1.82	033	10.930	.28	171	10.265	-1.85	278	38.400	.20
Avg	9.3790		559	11.425	1.73	735	10.925	.19	363	10.245	-1.91	353	38.420	.06
843	9.3250	-.19	738	11.355	1.52	354	10.875	.04	407	10.225	-1.97	Avg	38.397	
618	8.9060	-1.41	811	11.325	1.42	164	10.870	.04	658	10.201	-2.05	160	38.365	-.02
546	7.5750 S	-4.83	541	11.320	1.42	Avg	10.864		194	10.165	-2.16	510	36.150	-1.49
			305	11.310	1.38	350	10.848	-.08	660	10.150 R	-2.30			
--	Method 010.11	--	813	11.300	1.35	226	10.850	-.16	746	9.9000	-2.98	--	Method 012.11	--
588	10.740	1.19	827	11.215	1.09	098	10.850	-.16	591	9.8150 S	-3.24	731	41.390	1.28
663	10.765	1.07	755	11.210	1.07	026	10.810	-.17				Avg	39.813	
178	10.700	.87	643	11.200	1.04	511	10.805	-.18	--	Method 011.99	--	178	39.100	-.60
688	10.700	.74	122	11.190	1.01	298	10.800	-.20	857	10.800	.74	588	38.950	-.70
Avg	10.532		625	11.180	1.01	021	10.790	-.23	Avg	10.720		663	0.6400 S	-31.85
724	10.435	-.45	205	11.185	1.01	160	10.820	-.23	265	10.640	-.98			
536	10.515	-.47	848	11.175	.99	233	10.790	-.24	727	9.0540 S	-15.34	--	Method 012.99	--
731	10.360	-.88	175	11.150	.90	062	10.782	-.26				619	51.200 S	.00
727	10.269	-1.27	242	11.120	.79	574	10.835	-.28	--	Method 012.00	--			
567	10.300	-1.35	520	11.105	.76	539	10.765	-.34	354	42.390	2.05	--	Method 013.02	--
297	8.2300 S	-10.19	843	11.015 R	.74	552	10.755	-.34	048	41.120	.54	643	5.8150	1.75
			825	11.100	.73	723	10.705	-.49	Avg	40.701		760	5.7600	1.64
--	Method 010.99	--	208	11.100	.73	670	10.700	-.51	559	40.650	-.43	826	5.7250	1.51
714	10.830	1.87	309	11.095	.73	622	10.696	-.54	567	40.250	-.55	791	5.5950	1.17
728	10.745	1.64	650	11.095	.72	623	10.686	-.56	689	40.300	-.61	811	5.5300	.98
401	10.425	.73	100	11.085	.69	294	10.680	-.57	178	40.200	-.61	171	5.5000	.92
726	10.413	.70	675	11.080	.67	620	10.649	-.66	716	40.000	-.89	645	5.4500	.87
724	10.350	.52	144	11.065	.62	791	10.735 R	-.67	673	38.350 S	-2.87	650	5.4000	.63
716	10.200	.30	573	11.054	.62	358	10.840 R	-.68				100	5.3900	.61
Avg	10.164		822	11.050	.58	847	10.695 R	-.71	--	Method 012.01	--	033	5.3650	.58
673	10.100	-.18	185	11.045	.57	229	10.640	-.72	185	38.740	.87	164	5.3750	.57
037	10.140	-.26	148	11.045	.56	202	10.660	-.73	Avg	37.338		755	5.3400	.48
852	10.050	-.35	805	10.950 R	.53	179	10.610	-.79	686	35.935	-.87	805	5.3000	.45
621	9.9450	-.62	300	11.010	.46	855	10.575	-.90				148	5.2600	.30
168	9.8850	-.84	152	11.000	.42	563	10.570	-.91	--	Method 012.03	--	354	5.2700	.28
529	9.8650	-.86	645	11.000	.42	682	10.560	-.94	098	40.850	.87	813	5.1750	.23
652	10.000 R	-.96	121	10.903	.42	598	10.560	-.94	Avg	39.423		675	5.1800	.11
065	9.7200	-1.25	760	10.985	.38	646	10.535	-1.02	297	37.995	-.86	735	5.2000	.10
337	9.6300	-1.51	773	10.985	.38	710	10.530	-1.03				Avg	5.1653	
712	8.5300 S	-4.70	782	10.973	.38	510	10.450	-1.29				208	5.0100	-.42
			651	10.969	.32	034	10.390	-1.46				773	5.0000	-.50

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## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 013.02	--	--	Method 013.12	--	--	Method 017.99	--	--	Method 019.01	--	--	Method 019.01	--
746	4.9350	-.62	588	4.6500	.40	307	11.500	.86	019	1.0100	1.64	505	0.8550	-.93
853	4.8150	-1.00	Avg	4.6425		Avg	9.9575		354	0.9850	1.23	363	0.8450	-1.09
229	4.8000	-1.02	731	4.6350	-1.16	358	8.4150	-.87	504	0.9675	.95	278	0.8100	-1.70
855	4.7750	-1.05							152	0.9550	.74	108	0.7950	-1.93
026	4.7600	-1.11	--	Method 013.99	--	--	Method 018.01	--	034	0.9550	.74	142	0.7900	-2.00
825	4.7500	-1.13	300	11.335 S	10.23	716	0.1100	.87	038	0.9520	.73	670	0.7805	-2.17
733	4.6600	-1.37	065	5.8600	.86	Avg	0.0550		669	0.9420	.54	856	0.0960 s	-13.48
616	4.6150	-1.49	Avg	5.3550		619	0.0000	-.87	122	0.9250 R	.48	656	0.0150 s	-14.82
827	4.6100	-1.53	689	4.8500	-.87				035	0.9350	.41			
337	4.6000	-1.58				--	Method 018.02	--	208	0.9265	.26	--	Method 019.02	--
			--	Method 015.00	--	567	0.1500	.70	098	0.9150	.26	536	0.8650	.71
--	Method 013.03	--	520	168.50	2.29	Avg	0.1474		674	0.9250	.25			
591	5.2550	.71	353	150.75 R	1.54	011	0.1448	-1.01	026	0.9250	.25	--	Method 019.03	--
			345	147.25	.65				013	0.9245	.24	048	1.0700	2.06
--	Method 013.08	--	154	145.00	.56	--	Method 019.00	--	722	0.9240	.24	307	0.9900	.54
591	5.3300	.71	011	145.47	.51	625	0.9000 R	1.30	653	0.9230	.20	Avg	0.9739	
			616	141.00	.28	716	0.9500	1.27	588	0.9215	.18	036	0.9710	-.09
--	Method 013.10	--	Avg	138.84		043	0.9400	1.02	018	0.9195	.15	033	0.9610	-.29
185	5.5100	1.75	164	133.60	-.40	623	0.9183	.85	036	0.9135	.05	686	0.9650	-.37
160	5.4100	1.40	510	132.00	-.53	194	0.9250	.83	Avg	0.9107		026	0.9350	-.82
656	5.1850	.98	021	131.00	-.67	689	0.9200	.77	205	0.9080	-.05	043	0.9250	-1.03
652	5.2000	.93	560	135.00	-.68	658	0.9115	.67	563	0.9071	-.07			
660	4.8450	.61	049	127.88	-.85	175	0.9050	.62	350	0.9044	-.10	--	Method 019.05	--
539	4.9300	.30	169	120.50	-1.45	552	0.8800	.30	139	0.9035	-.12	208	1.0715 A	3.22
353	4.8900	.21				Avg	0.8672		723	0.9005	-.17	029	1.0040	1.87
716	4.8600	.09	--	Method 016.00	--	651	0.8540	-.02	650	0.9000	-.18	265	0.9950	1.70
Avg	4.8235		619	0.0835	.71	620	0.8332	-.25	619	0.9010	-.23	511	0.9950	1.70
688	4.7500	-.21				622	0.8289	-.30	039	0.8912	-.34	004	0.9820	1.42
062	4.7110	-.27	--	Method 017.00	--	621	0.7800	-.88	169	0.8950	-.36	168	0.9600 R	1.25
673	4.7000	-.30	353	11.155	1.89	647	0.7800	-.89	178	0.9000	-.38	598	0.9700	1.17
096	4.5150	-.74	045	10.200	.68	646	0.7150	-1.65	675	0.8850	-.43	413	0.9500	.98
610	4.4000	-1.01	294	9.9500	.37	849	0.6750 S	-2.12	307	0.8850	-.49	226	0.9500	.87
714	4.4760	-1.09	Avg	9.6569					001	0.8790	-.54	003	0.9400	.70
653	3.9700	-2.04	345	9.6050	-.11	--	Method 019.01	--	233	0.8750	-.60	520	0.9400	.58
845	3.9250 S	-2.50	560	9.6550	-.19	591	1.8950 s	16.29	305	0.8750	-.60	682	0.9400	.58
			049	9.4050	-.33	609	1.0400	2.15	014	0.8745	-.65	049	0.9300	.38
			693	8.6800	-1.22	631	1.0400	2.15	612	0.8700	-.67	425	0.9300	.38
			510	8.6050	-1.29	529	1.0400	2.14	731	0.8600	-.86	407	0.9250	.29
			021	5.0000 s	-5.81	720	1.0200	1.81	710	0.8550	-.93	298	0.9200	.27

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 019.05	--	--	Method 019.09	--	--	Method 020.00	--	--	Method 022.01	--	--	Method 022.03	--
550	0.9190	.24	202	0.9850	1.17	164	3.4000	.71	656	74.300 s	44.70	407	15.500	1.46
074	0.9200	.18	106	0.9745	.93				689	19.500 s	3.93	226	15.000	1.03
610	0.9150	.13	017	0.9700	.86	--	Method 020.01	--	178	17.500	2.45	265	15.000	1.03
Avg	0.9112		186	0.9580	.62	154	3.4000	1.08	588	16.500	1.72	049	14.295	.85
510	0.9100	-.02	096	0.9450	.45	567	3.3150	.95	619	15.550	1.16	171	14.650	.78
185	0.9100	-.02	726	0.9442	.33	011	3.0405	.50	731	15.650	1.05	520	14.500	.75
164	0.9090	-.05	028	0.9300	.20	096	3.0000	.44	038	15.500	1.01	083	14.500	.75
148	0.9080	-.07	021	0.9370	.20	171	2.7500	.09	674	15.500	1.01	550	14.483	.69
242	0.9050	-.16	199	0.9318	.10	Avg	2.7244		208	15.000	.56	512	13.725	.37
100	0.9050	-.16	Avg	0.9278		560	2.6750	-.30	098	14.950	.56	148	14.050	.30
294	0.9050	-.16	035	0.9200	-.16	510	2.1650	-.88	278	14.950	.56	297	14.000	.26
297	0.9050	-.16	572	0.9205	-.27	021	1.4500	-2.03	350	14.250	.04	164	14.000	.26
011	0.8988	-.25	027	0.9105	-.34	--	Method 020.99	--	Avg	14.244		Avg	13.660	
171	0.9000	-.30	037	0.9105	-.39	591	14.160	-.12	591	14.160	-.12	610	13.500	-.12
144	0.8850	-.53	345	0.9055	-.46	616	3.2850	-.71	653	14.034	-.16	405	13.500	-.40
083	0.8850	-.53	357	0.9050	-.46				505	14.000	-.18	100	13.500	-.40
229	0.8650	-.93	045	0.9020	-.52	--	Method 021.01	--	722	13.914	-.28	229	13.000	-.50
300	0.8575	-1.22	560	0.8920	-.72	619	1.3550	.87	590	13.950	-.29	242	13.000	-.50
512	0.8476	-1.28	154	0.8878	-.81	722	1.1741	.50	669	13.983	-.34	074	13.000	-.50
553	0.8590 R	-1.29	616	0.8835	-.89	Avg	1.0764		305	13.770	-.35	003	13.000	-.50
358	0.8450	-1.32	309	0.8835	-.92	689	0.7000	-1.22	716	13.700	-.46	553	12.850	-.96
089	0.8350	-1.52	190	0.8800	-.97	--	Method 021.02	--	354	13.595	-.48	510	12.500	-.97
645	0.8500 R	-1.58	567	0.8750	-1.05	510	0.8600	2.14	035	13.500	-.67	358	12.110	-1.19
187	0.8305	-1.61	848	0.8650	-1.28	504	0.8600	2.14	504	13.500	-.67	029	11.893 R	-1.67
661	0.7700	-2.82	047	0.8500	-1.55	504	0.5992	.26	675	14.105	-.90	300	11.335	-1.78
405	0.7050 s	-4.11				154	0.5785	.12	307	13.300	-1.02	185	10.500	-2.45
			--	Method 019.99	--	Avg	0.5658		529	13.050	-1.09			
--	Method 019.08	--	724	1.1600 S	3.58	011	0.5608	-.04	646	12.725	-1.13	--	Method 022.05	--
729	1.0100	1.42	006	0.9700	1.17	169	0.5350	-.23	014	13.500 R	-1.25	042	19.150 s	6.75
590	1.0050	.66	629	0.9550	.97	171	0.5500	-.38	563	12.345	-1.42	160	19.050 s	6.58
Avg	0.9712		692	0.9050	.38	560	0.4335	-1.11	856	11.600	-1.99	186	16.000 A	2.98
673	0.9350	-.65	121	0.9010	.29	572	0.4095	-1.18	720	9.2055 S	-3.76	366	15.500	2.16
689	0.9350	-.78	065	0.8996	.26	616	0.0000 s	-4.12				202	14.500 R	2.06
			Avg	0.8788					--	Method 022.03	--	017	14.500 R	2.06
--	Method 019.09	--	693	0.8700	-.12	--	Method 021.99	--	187	27.805 s	10.84	106	15.250	1.75
160	1.1420 s	4.27	852	0.8100	-.89	610	0.3740	.86	004	22.500 s	6.77	572	14.600	1.28
042	1.0600	2.63	588	0.7850 R	-1.38	Avg	0.3145		598	17.500 s	3.98	199	14.840	1.24
353	1.0250	1.93	665	0.7200	-2.02	693	0.2550	-.87	144	18.250 s	3.52	413	14.600	1.00
366	1.0000	1.45							208	16.000	1.79	027	14.100	.90

\* 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 022.05	--	--	Method 025.01	--	--	Method 025.03	--	--	Method 026.00	--	--	Method 027.02	--
726	14.313	.57	505	240.00	.55	405	223.00	-.55	154	0.1000	.00	504	0.2102	.71
353	14.085	.33	563	239.34	.46	598	222.50	-.56						
154	14.050	.30	619	239.00	.44	144	227.25	-.62	--	Method 026.99	--	--	Method 027.03	--
096	14.000	.17	307	234.00	.27	610	220.95	-.70	619	0.0000	.00	003	0.2700	s 5.38
Avg	13.864		720	234.35	.19	171	219.00	-.87				208	0.2535	s 3.91
616	13.750	-.16	689	234.00	.18	358	218.22	-1.03	--	Method 027.01	--	265	0.2500	s 3.58
169	13.600	-.36	Avg	230.75		003	215.50	-1.19	689	87.000	s9221.71	520	0.2300	R 2.00
309	13.550	-.40	504	227.50	-.19	300	214.35	-1.27	337	0.2575	s 4.99	425	0.2300	1.78
037	13.345	-.66	716	214.50	-.85	187	199.66	-2.56	305	0.2350	2.65	413	0.2250	1.41
560	13.750	-.71	278	209.50	-1.18				609	0.2300	R 2.32	049	0.2200	.88
045	13.450	-.77	014	212.00	R -1.20	--	Method 025.05	--	720	0.2250	1.62	144	0.2200	.88
035	13.500	-.78	354	205.50	-1.32	042	278.50	2.35	098	0.2200	1.00	297	0.2200	.88
567	13.500	-.78	350	202.15	-1.50	366	266.00	1.69	656	0.2200	1.00	598	0.2200	.88
294	13.190	-.86	670	198.50	-1.69	353	250.15	.84	038	0.2185	.97	011	0.2185	.74
021	13.100	-1.09	656	193.79	-1.95	413	247.50	.81	350	0.2116	.78	226	0.2150	.62
357	13.000	-1.09	305	166.55	S -3.36	045	246.00	.79	278	0.2150	.71	610	0.2160	.53
345	12.915	-1.22	035	102.50	s -6.72	021	246.00	.62	731	0.2150	.71	164	0.2155	.50
190	12.885	-1.24				017	242.50	.52	Avg	0.2106		171	0.2150	.44
			--	Method 025.03	--	199	241.40	.38	139	0.2103	-.03	300	0.2140	.35
--	Method 022.99	--	265	346.00	s 11.90	037	237.40	.18	208	0.2105	-.05	004	0.2140	.35
692	16.250	1.52	208	308.00	s 6.91	Avg	234.34		035	0.2100	-.06	Avg	0.2102	
693	13.255	.09	520	260.00	s 3.54	726	232.01	-.13	529	0.2100	-.06	242	0.2100	-.02
Avg	13.069		004	244.50	1.44	567	225.00	-.51	588	0.2090	-.17	100	0.2100	-.02
846	11.395	-.77	553	229.50	R 1.35	106	223.50	-.58	650	0.2076	-.33	185	0.2100	-.02
121	11.376	-.77	029	244.00	1.32	154	221.50	-.73	722	0.2063	-.45	510	0.2100	-.02
			011	242.64	1.20	345	220.10	-.76	014	0.2095	-.49	550	0.2095	-.08
--	Method 023.01	--	297	240.50	1.12	169	219.50	-.80	619	0.2055	-.79	029	0.2099	-.21
619	0.0020	.00	049	235.90	.94	309	219.25	-.81	175	0.2050	-.80	407	0.2050	-.47
			083	239.00	.90	560	219.50	R -1.07	307	0.2100	R -1.06	358	0.2050	-.65
--	Method 025.01	--	100	239.00	.88	294	213.94	-1.09	142	0.2000	-1.12	553	0.2025	R -0.91
722	291.05	S 3.16	226	231.00	.72	160	212.25	-1.18	505	0.2000	-1.12	229	0.2000	-.92
175	253.50	1.34	242	234.50	.49	096	210.00	-1.30	675	0.2000	-1.12	083	0.2000	-.92
529	250.80	1.16	510	234.50	.49	616	216.00	R -1.33	646	0.2000	-1.12	148	0.1995	-.96
731	250.00	1.04	164	234.05	.45				563	0.1995	-1.18	187	0.1934	-1.52
208	249.50	.98	229	233.00	.44	--	Method 025.99	--	169	0.1900	R -2.43	294	0.1850	-2.31
675	241.96	.67	550	228.94	.30	693	234.50	.85	591	0.1180	s -14.32	405	0.1850	-2.31
038	243.50	.67	Avg	228.92		Avg	219.75							
098	243.00	.64	407	227.00	-.17	692	205.00	-.88						
591	241.39	.57	148	225.10	-.33									

\* 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 027.05	--	--	Method 028.01	--	--	Method 028.03	--	--	Method 028.05	--	--	Method 031.01	--
160	0.2634 s	4.19	563	100.04	.64	083	97.000	.20	154	100.00	-.58	026	0.7650	.53
353	0.2350	1.77	098	99.500	.61	Avg	96.743		572	98.600	-.76	563	0.7651	.53
042	0.2310	1.37	505	98.500	.50	185	95.000	-.35	616	97.900	-.87	623	0.7601	.48
345	0.2275	1.13	619	98.400	.49	029	94.905	-.53	045	98.800	-.94	596	0.7600	.47
035	0.2250	.95	588	98.000	.45	358	96.540	-.53	560	97.900	-.96	018	0.7625	.46
202	0.2250	.95	646	97.650	.42	610	94.100	-.56	567	96.500	-1.15	723	0.7615	.41
106	0.2250	.88	674	97.120	.42	148	93.650	-.61	190	96.180	-1.21	036	0.7600	.37
186	0.2235	.72	307	96.500	.38	407	93.500	-.65	309	95.550	-1.41	669	0.7595	.36
366	0.2200	.41	675	96.410	.31	164	93.500	-.65	169	94.550	-1.57	178	0.7550	.27
199	0.2181	.25	504	95.500	.23	144	93.050	-.75				710	0.7550	.27
726	0.2170	.20	Avg	94.798		187	92.495	-.85	--	Method 028.99	--	233	0.7550	.27
Avg	0.2153		856	90.500	-.24	512	92.540	-.88	121	110.08	1.60	354	0.7550	.27
037	0.2150	-.09	629	90.000	-.30	049	91.845	-1.08	693	97.450	.09	098	0.7550	.27
096	0.2100	-.46	178	89.500	-.33	598	91.000	-1.14	Avg	97.161		038	0.7495	.17
017	0.2100	-.46	038	90.000 R	-.47	226	91.000	-1.16	846	91.670	-.62	001	0.7480	.14
357	0.2100	-.46	590	83.015	-.97	300	91.035	-1.26	692	89.450	-.74	651	0.7505	.11
021	0.2090	-.57	175	82.500	-1.00	553	93.300 R	-1.48				139	0.7480	.09
560	0.2085	-.63	350	79.900	-1.22	405	88.500	-1.64	--	Method 029.00	--	019	0.7500	.08
309	0.2080	-.72	278	76.500	-1.53	168	62.000 s	-7.02	675	0.0035	.71	Avg	0.7470	
616	0.2070	-.73	354	74.205	-1.75							205	0.7460	-.03
572	0.2105 R	-.77	014	73.000 S	-1.87	--	Method 028.05	--	--	Method 031.00	--	591	0.7425	-.15
045	0.2060	-.81	656	70.320 S	-2.12	160	133.45 s	6.85	622	0.7552	.71	609	0.7450	-.15
567	0.2050	-.99	305	59.710 S	-3.08	042	118.00 A	3.49				848	0.7450	-.15
154	0.1854	-2.61				366	115.50 s	3.41	--	Method 031.01	--	716	0.7450	-.15
			--	Method 028.03	--	027	109.30	1.61	278	0.8550 s	3.07	305	0.7400	-.20
--	Method 027.99	--	265	118.00 s	4.23	294	108.60	1.43	337	0.8350	2.53	511	0.7350	-.37
692	0.2200	1.15	550	109.71	2.59	106	108.00	1.30	689	0.8050	1.70	670	0.7350	-.37
Avg	0.2119		003	106.00	1.85	017	107.00	1.26	650	0.7950	1.37	656	0.7350	-.37
693	0.2105	-.22	297	103.00	1.26	096	105.00 R	1.25	142	0.7950	1.37	675	0.7350	-.37
065	0.2053	-1.06	242	101.50	.99	186	104.00	.96	620	0.7853	1.09	619	0.7410	-.43
			510	101.50	.95	353	105.95	.88	625	0.7850	1.09	588	0.7260	-.60
--	Method 028.01	--	074	101.00	.93	202	105.50	.78	350	0.7801	.95	122	0.7250	-.64
013	109.50	1.52	004	100.00	.65	037	104.10	.47	108	0.7750	.90	039	0.7235	-.67
731	105.50	1.17	171	99.500	.56	345	103.30	.35	731	0.7700 R	.86	728	0.7300 R	-.75
669	103.80	1.00	520	99.500	.56	357	103.00	.32	674	0.7750	.81	529	0.7250	-.76
720	102.66	.89	100	99.500	.56	021	103.00	.24	363	0.7750	.81	169	0.7200	-.77
722	102.67	.88	011	98.673	.38	726	102.09	.20	035	0.7750	.81	653	0.7200	-.79
529	101.60	.79	229	98.000	.32	Avg	101.88		722	0.7669	.56	621	0.7200	-.82
208	100.50	.68	208	98.000	.25	413	101.50	-.13	175	0.7650	.53	646	0.7150	-.92

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 031.01	--	--	Method 031.05	--	--	Method 031.05	--	--	Method 032.01	--	--	Method 032.03	--
034	0.7100	-1.05	598	0.8100	1.41	682	0.7300	-.67	609	0.9650 s	3.87	003	0.7750	.71
194	0.6750	-2.05	202	0.7950	1.03	226	0.7300	-.71	591	0.8640	1.39			
849	0.6550	-2.62	366	0.7950	1.03	100	0.7300	-.71	142	0.8300 R	1.35	--	Method 032.05	--
152	0.6500	-2.75	616	0.7855	.94	242	0.7250	-.81	278	0.8600	1.30	160	1.0966 s	6.73
647	0.6500	-2.75	004	0.7865	.81	345	0.7215	-.89	208	0.8595	1.27	345	1.0450 s	5.46
			096	0.7850	.77	512	0.7205	-.92	175	0.8550	1.21	226	0.9000	1.86
--	Method 031.02	--	405	0.7850	.77	567	0.7200	-.92	646	0.8450	.92	037	0.8910	1.64
013	0.7700	1.06	413	0.7850	.77	553	0.7195	-1.03	205	0.8415	.84	610	0.8875	1.53
043	0.7650	.84	021	0.7850	.76	848	0.7150	-1.06	619	0.8390	.76	366	0.8850	1.51
011	0.7593	.52	726	0.7819	.68	154	0.7152	-1.09	098	0.8350	.67	353	0.8800	1.36
505	0.7500	.02	572	0.7775	.68	358	0.7150	-1.12	720	0.8250	.55	425	0.8800	1.34
Avg	0.7496		425	0.7800	.63	089	0.7100	-1.18	307	0.8100	.50	096	0.8750	1.27
014	0.7335	-.86	520	0.7750	.52	229	0.7100	-1.18	337	0.8235	.39	560	0.8750	1.22
307	0.7200	-1.63	560	0.7720	.50	148	0.7070	-1.26	354	0.8100	.25	572	0.8630 R	1.20
			186	0.7730	.45	645	0.7500 R	-1.31	650	0.8085	.21	171	0.8720	1.15
--	Method 031.03	--	300	0.7649	.45	294	0.7000	-1.47	038	0.8110	.12	202	0.8700	1.12
003	0.7950	1.25	029	0.7709	.41	190	0.7000	-1.47	Avg	0.8083		413	0.8550 R	.95
208	0.7900	1.03	074	0.7700	.37	661	0.6550	-2.61	305	0.8050	-.15	726	0.8618	.89
033	0.7880	.97	298	0.7600	.28				529	0.8000	-.20	520	0.8400 R	.82
504	0.7675	.39	407	0.7650	.28	--	Method 031.06	--	656	0.8000	-.32	049	0.8550	.81
026	0.7650	.34	049	0.7650	.28	686	0.7300	.99	350	0.7805	-.69	405	0.8550	.73
Avg	0.7541		121	0.7610	.19	Avg	0.7225		035	0.7800	-.70	187	0.8545	.70
036	0.7455	-.25	037	0.7600	.15	536	0.7150	-.72	563	0.7766	-.78	199	0.8491	.57
720	0.7500	-.31	Avg	0.7556					505	0.7650	-1.07	106	0.8445	.49
043	0.7350	-.56	045	0.7545	-.03	--	Method 031.99	--	675	0.7550	-1.32	042	0.8425	.41
047	0.7200	-1.13	083	0.7550	-.13	588	0.9250 S	4.11	139	0.7375	-1.75	297	0.8350	.25
048	0.6850	-1.98	164	0.7500	-.15	631	0.8850 S	3.23	670	0.7115	-2.39	294	0.8350	.25
			017	0.7450	-.31	729	0.8300	2.02				021	0.8325	.24
--	Method 031.05	--	199	0.7412	-.38	724	0.7650	.51	--	Method 032.02	--	616	0.8310	.14
160	0.9368 s	4.70	035	0.7400	-.41	673	0.7650	.51	716	0.9300	1.74	144	0.8300	.09
309	0.9080 s	3.99	510	0.7400	-.41	693	0.7435	.26	665	0.8950 R	1.64	357	0.8300	.09
208	0.9060 s	3.92	144	0.7450	-.48	Avg	0.7430		731	0.8200	.15	Avg	0.8262	
106	0.8465	2.36	171	0.7400	-.48	590	0.7400	-.24	169	0.8150	.11	148	0.8250	-.03
028	0.8400	2.19	027	0.7450	-.50	692	0.7400	-.46	Avg	0.8093		510	0.8200	-.15
610	0.8325	1.99	185	0.7350	-.55	852	0.7250	-.70	588	0.7860	-.34	358	0.8200	-.29
168	0.8140 R	1.79	357	0.7350	-.55	065	0.6982	-1.01	590	0.7850	-.36	083	0.8150	-.31
265	0.8150	1.59	187	0.7313	-.63	552	0.6800	-1.44	108	0.7200	-1.48	011	0.8130	-.33
042	0.8155	1.56	550	0.7310	-.65							598	0.8250	-.37
353	0.8150	1.55	297	0.7300	-.67							309	0.8125	-.40

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

## Laboratory Averages &amp; Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 032.05	--	--	Method 033.00	--	--	Method 033.01	--	--	Method 033.99	--	--	Method 035.00	--
100	0.8100	-.40	Avg	0.4215		205	0.4240	-.36	121	0.3825	-.79	675	0.1650	.58
567	0.8100	-.47	567	0.4150	-.22	026	0.4300	-.46	358	0.3450	-1.63	035	0.1650	.58
164	0.8060	-.50	160	0.4100	-.30	100	0.4300	-.46	619	0.2755 S	-3.15	152	0.1635	.34
186	0.8060	-.57	731	0.4100	-.30	042	0.4200	-.65				098	0.1600	.05
407	0.7980	-.71	045	0.4100	-.30	098	0.4250 R	-.73	--	Method 034.01	--	142	0.1600	.05
045	0.7965	-.74	653	0.4050	-.46	194	0.4150	-.73	038	0.4525	.71	Avg	0.1593	
229	0.7950	-.79	034	0.4025	-.53	199	0.4150	-.73				139	0.1580	-.18
300	0.7937	-.81	208	0.4010	-.60	029	0.4100	-.92	--	Method 034.04	--	591	0.1545	-.37
265	0.8000	-.82	511	0.3800	-1.10	178	0.4100	-1.03	610	0.5055	1.00	278	0.1550	-.51
035	0.7900	-.90	849	0.3750	-1.24	710	0.4050	-1.17	164	0.4900	.73	720	0.1550	-.51
185	0.7900	-.90	309	0.3650	-1.50	185	0.3900	-1.84	169	0.4600 R	.41	656	0.1500	-.71
017	0.7850	-1.03	169	0.3550	-1.81	004	0.3900	-1.84	572	0.4530	.13	038	0.1485	-.93
154	0.7828	-1.15				106	0.3860	-2.02	Avg	0.4476		205	0.1460	-1.02
004	0.7770	-1.23	--	Method 033.01	--	337	0.3750 s	-2.77	208	0.4410	-.12	307	0.1450	-1.16
550	0.7700	-1.40	686	0.4880	2.64				619	0.3485	-1.71	650	0.1450	-1.16
242	0.7650	-1.53	039	0.4719	1.91	--	Method 033.03	--				208	0.1450	-1.16
029	0.7598	-1.65	202	0.4600	1.36	674	0.4150 R	1.82	--	Method 034.05	--	337	0.1435	-1.21
553	0.7605 R	-1.80	307	0.4500 R	1.28	014	0.4125	1.37	309	388.35 S	3152.44	305	0.1400	-1.48
208	0.7215	-2.61	048	0.4550	1.15	190	0.4400	.87	560	0.4535	.86			
			590	0.4400 R	1.02	505	0.4350	.73	Avg	0.3468		--	Method 035.01	--
--	Method 032.99	--	510	0.4500	.90	598	0.4300	.59	154	0.2400	-.87	563	0.1624	.98
693	0.9125	1.51	164	0.4450	.71	122	0.4150	.26				Avg	0.1601	
692	0.8150	.09	019	0.4450	.71	Avg	0.4053		--	Method 034.99	--	647	0.1600	-.06
Avg	0.8111		650	0.4400	.64	003	0.3900	-.37	693	0.6250 S	54.72	686	0.1580	-1.24
065	0.7702	-.59	610	0.4405	.50	144	0.3800	-1.14	098	0.4150	.71			
658	0.7468	-.93	096	0.4400	.45	726	0.3400	-1.57	Avg	0.4150		--	Method 035.03	--
588	0.1755 S	-9.20	242	0.4400	.45							004	0.2265 s	5.29
			278	0.4400	.45	--	Method 033.05	--	--	Method 035.00	--	187	0.2141 s	4.42
--	Method 033.00	--	021	0.4350	.32	171	0.4250	.71	122	0.3200 s	12.30	265	0.2100 s	4.19
539	0.5500 S	3.44	Avg	0.4302					658	0.2277 s	5.24	407	0.1880	2.63
298	0.4800	1.57	413	0.4300	-.01	--	Method 033.99	--	529	0.1840	2.06	160	0.1876	2.60
353	0.4750	1.47	629	0.4300	-.01	630	1.6100 s	26.64	609	0.1850	2.00	425	0.1800	2.08
596	0.4700	1.31	425	0.4300	-.01	723	0.4970	1.79	354	0.1750	1.26	682	0.1800	2.08
016	0.4685	1.26	229	0.4300	-.01	716	0.4400	.56	670	0.1725	1.01	208	0.1740	1.67
366	0.4500	.92	226	0.4300	-.01	552	0.4400	.52	363	0.1700	.81	550	0.1690 R	1.46
297	0.4480	.82	011	0.4274	-.13	855	0.4300	.37	619	0.1680	.81	598	0.1700	1.39
588	0.4450	.64	354	0.4250	-.33	Avg	0.4168		233	0.1600	.77	413	0.1650	1.10
675	0.4350	.38	175	0.4250	-.33	673	0.4000	-.37	175	0.1600	.77	353	0.1600 R	.98
407	0.4300	.23	559	0.4250	-.33	693	0.3995	-.38	722	0.1693	.76	229	0.1550	.50

\* 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 035.03	--	--	Method 035.03	--	--	Method 036.03	--	--	Method 037.01	--	--	Method 037.03	--
202	0.1550	.50	042	0.0945 s	-3.79	202	0.2400	.12	278	100.45	.26	171	97.500	-.41
298	0.1550	.50	405	0.0945 s	-3.80	042	0.2380	.05	Avg	99.158		610	96.600	-.49
049	0.1550	.50				Avg	0.2375		307	97.450	-.43	144	96.300	-.58
226	0.1550	.50	--	Method 035.05	--	171	0.2355	-.12	354	98.405	-.43	242	95.500	-.67
011	0.1524	.18	169	0.5400 s	49.23	187	0.2356	-.22	588	97.000	-.44	358	98.275 R	-.74
089	0.1500	.02	665	0.1750	2.40	357	0.2350	-.26	038	97.350	-.55	226	95.000	-.83
144	0.1500	.02	106	0.1525	.24	300	0.2315	-.29	656	96.060	-.63	148	92.500	-1.18
035	0.1500	.02	716	0.1525	.24	550	0.2305	-.37	675	96.930	-.63	187	92.485	-1.18
366	0.1500	.02	171	0.1510	.14	045	0.2235	-.68	529	96.000	-.65	553	93.550 R	-1.37
083	0.1500	.02	294	0.1500	.00	693	0.2235	-.68	689	96.500	-.74	300	89.370	-1.73
Avg	0.1498		590	0.1500	.00	345	0.2150	-1.08	208	95.000	-.86	164	88.900	-1.80
164	0.1495	-.10	Avg	0.1500		294	0.2100	-1.29	716	97.500	-.97	168	83.450 R	-2.91
726	0.1474	-.16	588	0.1495	-.06	265	0.2050	-1.54	350	92.700	-1.31			
199	0.1474	-.18	560	0.1440	-.73	616	0.1990	-1.82	653	90.784	-1.70	--	Method 037.05	--
186	0.1470	-.20	731	0.1400	-.93	598	0.0700 s	-7.83	035	89.000	-2.06	106	130.50 S	2.46
345	0.1455	-.29	108	0.1350	-1.48				175	87.000 s	-2.66	035	124.50	1.89
021	0.1450	-.33				--	Method 036.04	--	646	65.330 s	-6.84	572	121.50 S	1.75
572	0.1465	-.38	--	Method 035.99	--	226	0.2550	.87				160	121.75 S	1.73
148	0.1440	-.40	692	0.1600	.92	Avg	0.2400		--	Method 037.03	--	353	121.05	1.59
029	0.1435	-.44	693	0.1525	.48	510	0.2250	-.87	407	1013.0 s	156.56	154	118.50	1.32
300	0.1440	-.45	Avg	0.1495					003	212.00 s	20.84	413	116.50	1.12
610	0.1430	-.46	065	0.1361	-1.19	--	Method 037.01	--	004	113.50	2.46	017	114.50	.93
520	0.1450	-.47				674	114.49 s	3.14	405	109.50	1.74	616	111.50	.73
096	0.1450	-.47	--	Method 036.00	--	722	112.80	2.76	265	106.50	1.25	366	108.00	.37
017	0.1450	-.47	297	0.2400	.00	505	109.00	2.08	297	106.50	1.22	186	107.00	.36
242	0.1450	-.47	307	0.1850 S	.00	504	102.00 R	1.16	011	104.28	.84	027	105.03	.20
616	0.1425	-.53	Avg	0.2400		590	103.12	.83	520	103.50	.71	202	105.50	.09
037	0.1435	-.57				178	102.50	.68	074	102.50	.59	Avg	103.69	
297	0.1400	-.67	--	Method 036.03	--	013	100.00	.63	550	102.36	.52	726	102.36	-.23
185	0.1400	-.67	154	0.3462 s	5.08	014	100.50	.57	100	101.50	.37	357	103.00	-.33
100	0.1400	-.67	160	0.2981	2.84	563	101.40	.49	029	100.95	.29	042	100.50	-.41
309	0.1395	-.71	106	0.2570	.93	098	101.50	.48	510	100.00	.20	096	99.500	-.50
045	0.1375	-.85	186	0.2560	.89	305	100.93	.47	Avg	99.382		294	97.080	-.74
510	0.1345	-1.05	353	0.2550	.85	591	101.28	.44	229	99.000	-.07	199	96.885	-.75
358	0.1350	-1.07	708	0.2525	.71	669	100.95	.43	083	99.000	-.18	045	96.800	-.76
645	0.1475 R	-1.21	169	0.2500	.58	720	100.88	.36	512	97.790	-.28	021	96.700	-.78
154	0.1321	-1.22	021	0.2475	.47	856	99.500	.31	185	98.000	-.29	345	96.665	-.82
567	0.1300	-1.36	366	0.2450	.42	731	99.600	.30	598	97.500	-.33	567	96.000	-.84
661	0.1200	-2.04	560	0.2425	.24	619	100.50	.29	049	97.405	-.35	037	95.350	-.90

\* 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 037.05	--	--	Method 041.00	--	--	Method 102.02	--	--	Method 106.02	--	--	Method 112.99	--
190	95.300	-.90	011	1.4773	.80	858	0.0210	.00	619	4.5000	-.34	858	3.4060	.71
560	95.250	-.90	021	1.4000	.68				610	3.7450	-.68			
169	94.900	-.94	Avg	1.3424		--	Method 103.01	--	563	2.7839	-1.35	--	Method 113.01	--
309	93.800	-1.05	154	1.1500	-1.18	858	9.5950	.71	160	1.8950	-2.00	858	0.7640	.71
--	Method 037.99	--	--	Method 045.00	--	--	Method 104.00	--	--	Method 106.99	--	--	Method 114.01	--
121	108.79	1.59	009	0.0108 R	1.29	171	6.2000	.89	856	3.7000	-.71	858	0.2015	.71
693	99.700	.26	034	0.0109	1.04	Avg	5.2800							
Avg	99.077		028	0.0109	.93	208	4.3600	-.84	--	Method 107.00	--	--	Method 120.00	--
846	95.470	-.44	017	0.0108	.80				858	15.580	-.71	160	1.1687 s	4.77
692	92.350	-.84	171	0.0106	.62	--	Method 104.03	--				684	1.0515	1.84
			Avg	0.0102		858	4.0365	-.71	--	Method 107.99	--	571	1.0155	.94
--	Method 038.00	--	038	0.0096	-.75	--	Method 105.00	--	858	13.040	.71	619	0.9785	.19
011	1.8583 s	4.16	036	0.0093	-1.19	858	1.7350	1.21	--	Method 108.01	--	Avg	0.9779	
693	1.5750 R	1.25	511	0.0093	-1.25	Avg	1.7225		096	1.0750	.71	675	0.9700	-.20
560	1.5300	.85	--	Method 045.02	--	160	1.7100	-.21				227	0.9650	-.35
154	1.5000	.59	019	0.0113	1.48				--	Method 108.02	--	504	0.9750	-.38
029	1.4950	.56	004	0.0105	.77	--	Method 106.00	--	208	0.9900	.85	038	0.9530	-.64
Avg	1.4250		001	0.0096	.10	171	4.2000	.71	Avg	0.7015		350	0.9150	-1.57
106	1.4000	-.20	Avg	0.0095					858	0.4130	-.88	--	Method 120.99	--
510	1.2000	-1.76	027	0.0095	-.08	--	Method 106.01	--				859	0.9400	.71
169	0.7500 s	-5.28	039	0.0094	-.11	858	4.4680	.71	--	Method 109.02	--			
--	Method 038.99	--	218	0.0093	-.31	--	Method 106.02	--	199	48.200	1.79	--	Method 121.00	--
164	1.5000	.00	846	0.0073	-1.90	670	12.210 s	5.51	675	43.160	.59	571	1.1585	1.23
--	Method 039.01	--	--	Method 045.99	--	560	9.2850 S	3.38	858	40.950	.42	619	1.1300	.77
164	1.7000	.00	006	0.0131	.71	038	7.9060	2.41	169	41.000	.25	504	1.1200	.62
--	Method 039.02	--	--	Method 101.01	--	096	5.6700	.90	563	41.615	.23	227	1.1150	.57
154	2.6500	1.33	208	699.00	.71	675	5.8650	.89	Avg	40.665		684	1.1175	.56
Avg	2.1679					227	5.1100	.46	208	39.495	-.31	Avg	1.0830	
560	1.9400	-.58	--	Method 101.02	--	021	4.9000	.41	610	36.400	-1.02	160	1.0726	-.23
011	1.9138	-.63	858	486.96	.71	169	4.9500	.34	227	38.800 R	-1.40	038	1.0580	-.70
						004	4.7800	.11	619	34.500	-1.58	675	0.9900	-1.53
--	Method 040.00	--	--	Method 102.01	--	Avg	4.6397		560	7.1000 s	-7.99	350	0.9850	-1.58
560	5.3850	.71	858	31.840	.71	003	4.4000	-.19	--	Method 109.99	--	--	Method 121.99	--
						616	4.3400	-.22	096	43.500	.71	859	1.0635	.71
						208	4.4200	-.23						
						199	4.3300	-.23						

\* 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 122.00	--	--	Method 125.00	--	--	Method 127.99	--	--	Method 130.00	--	--	Method 131.02	--
684	1.6525	1.21	684	3.5265	1.73	859	0.4525	.71	Avg	0.9197		227	0.3200	.71
571	1.6455	1.11	619	3.4250	1.14				571	0.9190	-.05			
619	1.6200	.76	571	3.3230	.54	--	Method 128.00	--	684	0.9000	-.25	--	Method 131.05	--
227	1.5950	.40	160	3.2450	.31	619	0.7310	.92	227	0.9000	-.28	723	0.3650	.94
038	1.5915	.36	Avg	3.2306		504	0.6700 R	.86	619	0.8985	-.29	Avg	0.3575	
Avg	1.5675		227	3.2250	-.15	571	0.7275	.85	859	0.8550	-.81	610	0.3500	-.78
504	1.5650	-.08	504	3.1350	-.62	684	0.7235	.82	038	0.8975 R	-.86			
675	1.5000	-1.00	038	3.1525	-.62	227	0.7000	.46	675	0.8050	-1.44	--	Method 131.99	--
160	1.4732	-1.34	675	3.0550	-1.03	160	0.6866	.31	350	0.7905	-1.63	859	0.3325	.87
350	1.4645	-1.46	350	2.9885	-1.41	Avg	0.6681					Avg	0.3063	
						350	0.6360	-.48	--	Method 130.01	--	208	0.2800	-.87
						675	0.6050	-.91	035	0.9100	.71			
						038	0.5355	-1.97				--	Method 132.00	--
--	Method 122.99	--	--	Method 126.00	--				--	Method 130.05	--	160	0.9563	1.62
859	1.5665	.71	160	0.9168 s	5.71				723	1.0050	1.28	619	0.9200	.94
			571	0.7905	1.16	--	Method 128.99	--	Avg	0.9327		684	0.8915	.42
--	Method 123.99	--	684	0.7825	.85	859	0.6620	.71	610	0.9000	-.58	571	0.8785	.21
859	3.0455	.71	619	0.7725	.56				033	0.8930	-.72	Avg	0.8698	
			227	0.7650	.29	--	Method 129.00	--				227	0.8600	-.18
--	Method 124.00	--	Avg	0.7588		684	1.7150	1.81	--	Method 130.99	--	504	0.8550	-.39
160	0.3655 s	2.36	504	0.7550	-.55	571	1.6385	.76	038	0.8820	.71	350	0.8020	-1.27
684	0.3715	2.19	038	0.7310	-1.00	504	1.5850	.48				675	0.7950	-1.40
Avg	0.3306		675	0.7150	-1.66	619	1.6150	.43	--	Method 131.00	--	038	0.7875 R	-1.62
350	0.3275	-.17	350	0.5950 s	-5.86	227	1.6100	.36	848	0.3750	1.85			
619	0.3270	-.29				Avg	1.5840		684	0.3490	.72	--	Method 132.99	--
571	0.3285	-.31	--	Method 126.99	--	160	1.5571	-.37	619	0.3385	.35	859	0.8940	.71
038	0.3250	-.37	859	0.7225	.71	038	1.5345	-.76	571	0.3325	.12			
675	0.3250	-.40				675	1.5350	-.83	350	0.3320	.06	--	Method 133.00	--
504	0.3100	-1.10	--	Method 127.00	--	350	1.4655	-1.64	Avg	0.3309		038	1.3795 s	4.11
			160	0.5442	2.07				675	0.3150	-.66	227	1.2350	1.35
--	Method 124.02	--	571	0.5005	.77	--	Method 129.99	--	504	0.3100	-.83	571	1.1905	.56
227	0.2800	-.71	227	0.4750	.15	859	1.5530	.71	160	0.3236 R	-1.01	684	1.1885	.49
			Avg	0.4739					038	0.2950	-1.51	619	1.1750	.24
--	Method 124.05	--	619	0.4735	-.10	--	Method 130.00	--				Avg	1.1630	
610	0.3550	.71	675	0.4650	-.29	848	1.0550	1.70	--	Method 131.01	--	160	1.1619	-.52
			684	0.4635	-.31	674	1.0200 R	1.69	171	0.3550	.71	675	1.1200	-.88
--	Method 124.99	--	504	0.4700	-.31	160	1.0282	1.39				504	1.0700	-1.74
859	0.2825	.71	038	0.4580	-.67	171	0.9855	.83						
			350	0.4150	-1.70	208	0.9600	.51						
						504	0.9400	.36						

\* 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 134.00	--	--	Method 136.01	--	--	Method 139.99	--						
160	0.9055	1.20	571	0.2125	-.54	858	0.0000	.00						
227	0.8800	.64	619	0.1945	-1.19				--	Method 140.00	--			
038	0.8750	.54				859	0.0960	.00						
619	0.8745	.53	--	Method 136.99	--									
571	0.8740	.52	504	0.1950	1.00									
684	0.8710	.50	610	0.2045	.78									
Avg	0.8506		Avg	0.1927										
675	0.8000	-1.18	859	0.1785	-.94									
350	0.7850	-1.42												
504	0.7900	-1.46	--	Method 137.00	--									
			160	0.7371	1.69									
--	Method 134.99	--	684	0.6665	.65									
859	0.8080	-.71	675	0.6250	.08									
			Avg	0.6233										
--	Method 135.00	--	350	0.6010	-.36									
684	0.7285	1.94	504	0.5650	-.86									
038	0.6745 R	1.48	227	0.5450	-1.16									
160	0.6808	.52												
571	0.6740	.31	--	Method 138.00	--									
619	0.6720	.29	160	0.9046	1.30									
Avg	0.6637		619	0.8820	.79									
227	0.6600	-.11	571	0.8760	.66									
504	0.6450	-.58	684	0.8475	.26									
675	0.6300	-1.05	Avg	0.8463										
350	0.6190	-1.35	227	0.8350	-.27									
			350	0.8090	-.84									
--	Method 135.05	--	504	0.8200 R	-1.45									
610	0.6750	.71	675	0.7700	-1.70									
			038	0.6090 s	-5.25									
--	Method 135.99	--												
859	0.6265	-.71	--	Method 138.99	--									
			859	0.8010	.71									
--	Method 136.00	--												
684	0.2145	.71	--	Method 139.00	--									
			504	0.0600	.71									
--	Method 136.01	--												
160	0.2621	1.26												
227	0.2400	.46												
Avg	0.2273													

\* 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 3 Reports

<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>	<u>Method Code</u>	<u>Number Of Labs</u>	<u>Avg Bias of Labs</u>	<u>Std Dev of Biases</u>	<u>Std Dev Within Labs</u>
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