

MAGRUDER - Fertilizer Check Sample No. - 200204 Grade 5-10-30

- Pass 1 Results for 89 Labs - - Pass 2 Results for 87 Labs -

Method	AOAC Ref.	Method Code	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups	No. of Labs	Grand Avg.	Std. Dev.	Average Range of Dups
Ammoniacal Nitrogen, Other		001.99	3	6.0033	0.0695	0.0400	3	6.0033	0.0695	0.0400
Ammon & Nitrate N, Devarda	892.01	009.10	8	6.1159	0.1054	0.0860	8	6.1159	0.1054	0.0860
Total Nitrogen, Modified Comprehensive	978.02	010.11	10	6.1800	0.0462	0.0320	9	6.1794	0.0450	0.0233
Total Nitrogen, Salicylic	955.04D	010.12	8	6.1412	0.0945	0.0244	8	6.1412	0.0945	0.0244
Total Nitrogen, Combustion		010.60	48	6.2384	0.1126	0.0564	46	6.2432	0.1074	0.0449
Total Nitrogen, Other		010.99	3	6.1710	0.0490	0.0347	3	6.1710	0.0490	0.0347
Method Group 010.XX PCT			71	6.2153	0.1145	0.0480	68	6.2196	0.1110	0.0381
Total Phosphate, Grav Quimociac	962.02	020.10	9	10.424	0.1571	0.1298	8	10.434	0.1302	0.0773
Total Phosphate, Spectrometric	958.01	020.20	19	10.482	0.1495	0.0640	19	10.482	0.1495	0.0640
Total Phosphate, Alka. Quimociac	969.02	020.30	1	10.458	0.0048	0.0068	1	10.458	0.0048	0.0068
Total Phosphate, Automated	978.01	020.40	7	10.476	0.1028	0.0643	7	10.476	0.1028	0.0643
Total Phosphate, ICP		020.50	2	10.422	0.2294	0.0327	2	10.422	0.2294	0.0327
Total Phosphate, Other		020.99	3	10.413	0.0789	0.0267	3	10.413	0.0789	0.0267
Method Group 020.XX PCT			41	10.460	0.1422	0.0728	39	10.464	0.1356	0.0558
Insoluble Phosphate, Grav Quimociac ...	963.03C	030.10	1	0.0000	0.0000	0.0000	1	0.0000	0.0000	0.0000
Insoluble Phosphate, Spectrometric	963.03C	030.20	2	0.1475	0.0974	0.0350	2	0.1475	0.0974	0.0350
Insoluble Phosphate, Automated	978.01	030.40	4	0.0913	0.0264	0.0275	4	0.0913	0.0264	0.0275
Insoluble Phosphate, Other		030.99	1	0.0150	0.0071	0.0100	1	0.0150	0.0071	0.0100
Method Group 030.XX PCT			8	0.0844	0.0700	0.0238	8	0.0844	0.0700	0.0238
InDir Available Phosphate, Grav Quim ..	960.02	040.10	2	10.670	0.1763	0.0400	2	10.670	0.1763	0.0400
InDir Available Phosphate, Spectrometri	960.02	040.20	2	10.218	0.0954	0.1350	2	10.218	0.0954	0.1350
InDir Available Phosphate, Automated ..	960.02	040.40	4	10.423	0.1335	0.0600	4	10.423	0.1335	0.0600
InDir Available Phosphate, Other		040.99	1	10.420	0.0990	0.1400	1	10.420	0.0990	0.1400
Method Group 040.XX PCT			9	10.432	0.1980	0.0811	9	10.432	0.1980	0.0811
Dir Available Phosphate, Grav Quim	960.03E	041.10	21	10.457	0.1003	0.0453	19	10.462	0.0949	0.0311
Dir Available Phosphate, Spectrometric	960.03D	041.20	5	10.435	0.1861	0.0644	5	10.435	0.1861	0.0644
Dir Available Phosphate, Alka. Quim ...	960.03C	041.30	1	10.385	0.0354	0.0500	1	10.385	0.0354	0.0500
Dir Available Phosphate, Automated	978.01	041.40	5	10.282	0.1730	0.0226	5	10.282	0.1730	0.0226
Dir Available Phosphate, ICP		041.50	6	10.359	0.1714	0.0417	6	10.359	0.1714	0.0417
Dir Available Phosphate, EDTA Extract .	993.01	041.60	11	10.422	0.1410	0.0629	11	10.422	0.1410	0.0629
Method Group 041.XX PCT			49	10.415	0.1446	0.0485	46	10.420	0.1424	0.0393
Water Soluble Phosphate, Spectrometric	970.01	048.20	4	8.9713	0.1790	0.2075	4	8.9713	0.1790	0.2075
Water Soluble Phosphate, Other		048.99	1	8.2300	0.0849	0.1200	1	8.2300	0.0849	0.1200
Method Group 048.XX PCT			5	8.8230	0.3513	0.1900	5	8.8230	0.3513	0.1900
Soluble Potash, STPB Oxalate	958.02	050.00	27	29.020	0.2801	0.0946	27	29.020	0.2801	0.0946
Soluble Potash, STPB Citrate	969.04	050.10	1	29.137	0.1272	0.1799	1	29.137	0.1272	0.1799
Soluble Potash, AA (Oxalate)		050.30	7	29.421	0.7364	0.2186	8	29.500	1.0866	0.1525
Soluble Potash, ICP (Oxalate)		050.50	3	28.527	0.3168	0.2667	3	28.527	0.3168	0.2667
Soluble Potash, ICP (Citrate)		050.51	7	29.035	0.5237	0.1729	7	29.035	0.5237	0.1729

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Soluble Potash, Flame (Oxalate)	983.02(a)	050.60	8	29.233	0.5079	0.1140	8	29.233	0.5079	0.1140
Soluble Potash, Flame (Citrate)	983.02(b)	050.61	8	28.938	0.1555	0.1612	8	28.938	0.1555	0.1612
Soluble Potash, Other		050.99	13	28.936	0.6123	0.2818	12	28.878	0.5684	0.1937
Method Group 050.XX PCT			75	29.053	0.4876	0.1620	70	29.062	0.4049	0.1258
Free Water, Vacuum Oven	965.08B	060.00	5	0.8090	0.0970	0.0519	4	0.7999	0.0978	0.0224
Free Water, Other		060.99	1	0.8150	0.0071	0.0100	1	0.8150	0.0071	0.0100
Method Group 060.XX PCT			6	0.8100	0.0878	0.0449	5	0.8030	0.0865	0.0199
Acid Soluble Calcium, ICP		101.30	5	0.7856	0.0651	0.0301	5	0.7856	0.0651	0.0301
Acid Soluble Magnesium, AA	984.01	121.00	1	0.2520	0.0057	0.0080	1	0.2520	0.0057	0.0080
Acid Soluble Magnesium, ICP		121.30	5	0.4062	0.0252	0.0139	5	0.4062	0.0252	0.0139
Method Group 121.XX PCT			6	0.3805	0.0642	0.0129	6	0.3805	0.0642	0.0129
Water Soluble Magnesium, AA		131.00	1	0.1640	0.0438	0.0620	1	0.1640	0.0438	0.0620
Water Soluble Magnesium, Other		131.99	1	4.2300	0.0849	0.1200	1	4.2300	0.0849	0.1200
Method Group 131.XX PCT			2	2.1970	2.3482	0.0910	2	2.1970	2.3482	0.0910
Sulfur, Gravimetric	980.02a	144.01	16	4.9084	0.0848	0.0622	15	4.9113	0.0824	0.0524
Sulfur, Gravimetric	980.02b	144.02	1	4.7750	0.0212	0.0300	1	4.7750	0.0212	0.0300
Sulfur, Gravimetric	980.02c	144.03	1	4.7100	0.0283	0.0400	1	4.7100	0.0283	0.0400
Sulfur, Turbidimetric	63.845	144.50	1	4.8850	0.0919	0.1300	1	4.8850	0.0919	0.1300
Sulfur, Other		144.99	18	4.7933	0.2071	0.0660	18	4.7933	0.2071	0.0660
Method Group 144.XX PCT			38	4.8492	0.1733	0.0761	37	4.8428	0.1659	0.0644
Arsenic, ICP		151.30	2	3.1448	0.7191	0.3065	2	3.1448	0.7191	0.3065
Arsenic, Other		151.99	3	4.2517	0.6340	0.1967	3	4.2517	0.6340	0.1967
Method Group 151.XX PPM			5	3.8089	0.8500	0.2406	5	3.8089	0.8500	0.2406
Acid Soluble Boron, Spectrometric	982.01	165.00	11	0.0520	0.0043	0.0027	10	0.0518	0.0042	0.0021
Acid Soluble Boron, Titrimetric	949.02	165.70	1	0.0475	0.0035	0.0050	1	0.0475	0.0035	0.0050
Acid Soluble Boron, Other		165.99	12	0.0521	0.0054	0.0014	12	0.0521	0.0054	0.0014
Method Group 165.XX PCT			24	0.0519	0.0048	0.0021	23	0.0518	0.0048	0.0018
Water Soluble Boron, Spectrometric	982.01	171.10	1	0.0700	0.0000	0.0000	1	0.0700	0.0000	0.0000
Cadmium, Atomic Absorption		181.00	5	3.6538	0.3697	0.1224	5	3.6538	0.3697	0.1224
Cadmium, ICP		181.30	10	3.4639	0.6556	0.2111	9	3.3488	0.5574	0.1234
Cadmium, Other		181.99	1	4.1500	0.0707	0.1000	1	4.1500	0.0707	0.1000
Method Group 181.XX PPM			16	3.5661	0.5784	0.1764	14	3.4959	0.5370	0.0852
Water Soluble Chlorine, Titrimetric ...	928.02	190.00	1	22.328	0.0106	0.0150	1	22.328	0.0106	0.0150
Water Soluble Chlorine, Other		190.99	1	22.558	0.0034	0.0048	1	22.558	0.0034	0.0048
Method Group 190.XX PCT			2	22.443	0.1333	0.0099	2	22.443	0.1333	0.0099
Chromium, Atomic Absorption		191.00	2	100.50	14.617	14.000	2	100.50	14.617	14.000
Chromium, ICP		191.30	4	73.870	15.605	2.6142	4	73.870	15.605	2.6142
Method Group 191.XX PPM			6	82.747	19.625	6.4095	5	77.396	15.658	2.6914
Acid Soluble Cobalt, AA		202.00	3	42.217	11.307	2.2337	3	42.217	11.307	2.2337

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Acid Soluble Cobalt, ICP	965.11	202.30	8	46.662	12.696	2.5059	8	46.662	12.696	2.5059
Acid Soluble Cobalt, Other		202.99	3	29.917	26.654	1.1667	3	29.917	26.654	1.1667
Method Group 202.XX PPM			14	42.121	17.033	2.1606	14	42.121	17.033	2.1606
Acid Soluble Copper, Atomic Absorption	975.01	221.00	4	0.0041	0.0006	0.0004	4	0.0041	0.0006	0.0004
Acid Soluble Copper, ICP		221.30	12	0.0047	0.0008	0.0002	12	0.0047	0.0008	0.0002
Acid Soluble Copper, Other		221.99	3	0.0046	0.0003	0.0002	3	0.0046	0.0003	0.0002
Method Group 221.XX PCT			19	0.0046	0.0007	0.0002	18	0.0046	0.0007	0.0002
Acid Soluble Iron, Atomic Absorption ..	980.01	241.00	21	0.5706	0.0647	0.0124	21	0.5706	0.0647	0.0124
Acid Soluble Iron, ICP		241.30	18	0.5483	0.0578	0.0154	17	0.5513	0.0578	0.0134
Acid Soluble Iron, Other		241.99	2	0.5520	0.0431	0.0617	2	0.5520	0.0431	0.0617
Method Group 241.XX PCT			41	0.5599	0.0612	0.0162	40	0.5606	0.0615	0.0145
Lead, Atomic Absorption		251.00	3	7.1073	2.6112	0.6475	3	7.1073	2.6112	0.6475
Lead, ICP		251.30	6	8.8512	2.9126	0.6974	6	8.8512	2.9126	0.6974
Lead, Other		251.99	2	8.8400	0.9331	0.9300	2	8.8400	0.9331	0.9300
Method Group 251.XX PPM			11	8.3736	2.6118	0.7261	11	8.3736	2.6118	0.7261
Acid Soluble Manganese, AA	972.02a	261.00	17	0.2038	0.0179	0.0042	17	0.2038	0.0179	0.0042
Acid Soluble Manganese, AA	972.02b	261.11	4	0.2071	0.0268	0.0103	4	0.2071	0.0268	0.0103
Acid Soluble Manganese, ICP	972.02a	261.30	13	0.2118	0.0135	0.0057	13	0.2118	0.0135	0.0057
Acid Soluble Manganese, ICP	972.02b	261.31	1	0.2350	0.0212	0.0300	1	0.2350	0.0212	0.0300
Acid Soluble Manganese, Other		261.99	5	0.2064	0.0115	0.0136	5	0.2064	0.0115	0.0136
Method Group 261.XX PCT			40	0.2078	0.0175	0.0071	38	0.2072	0.0171	0.0059
Water Soluble Manganese, Atomic Abs. ..	972.03	271.00	4	0.0754	0.1081	0.0033	3	0.0913	0.1229	0.0000
Water Soluble Manganese, ICP	972.03	271.30	1	0.0950	0.0032	0.0045	1	0.0950	0.0032	0.0045
Water Soluble Manganese, Other		271.99	2	0.0875	0.0519	0.0250	2	0.0875	0.0519	0.0250
Method Group 271.XX PCT			7	0.0816	0.0835	0.0096	6	0.0736	0.0876	0.0046
Mercury, Other		281.99	2	0.0336	0.0024	0.0023	2	0.0336	0.0024	0.0023
Molybdenum, Atomic Absorption		289.00	1	5.8500	0.7778	1.1000	1	5.8500	0.7778	1.1000
Molybdenum, ICP		289.30	9	6.5720	0.6761	0.3607	9	6.5720	0.6761	0.3607
Molybdenum, Other		289.99	2	5.9000	2.4590	0.5000	2	5.9000	2.4590	0.5000
Method Group 289.XX PPM			12	6.3999	1.1161	0.4455	12	6.3999	1.1161	0.4455
Nickel, Atomic Absorption		291.00	3	37.245	1.4522	1.1087	3	37.245	1.4522	1.1087
Nickel, ICP		291.30	8	35.807	4.2008	1.2432	7	35.422	4.2573	0.7065
Nickel, Other		291.99	2	32.075	12.065	1.3500	2	32.075	12.065	1.3500
Method Group 291.XX PPM			13	35.565	5.5804	1.2286	12	35.320	5.7003	0.9143
Selenium, Other		301.99	1	0.0850	0.0212	0.0300	1	0.0850	0.0212	0.0300
Sodium, Atomic Absorption	983.04	311.00	1	0.5625	0.0064	0.0090	1	0.5625	0.0064	0.0090
Sodium, Other		311.99	4	0.6098	0.0529	0.0105	4	0.6098	0.0529	0.0105
Method Group 311.XX PCT			5	0.6003	0.0508	0.0102	5	0.6003	0.0508	0.0102
Acid Soluble Zinc, Atomic Absorption ..	975.02	321.00	24	0.1544	0.0114	0.0047	22	0.1545	0.0106	0.0029

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Acid Soluble Zin, ICP		321.30	14	0.1611	0.0081	0.0031	13	0.1608	0.0082	0.0025
Acid Soluble Zinc, Other		321.99	3	0.1524	0.0058	0.0028	3	0.1524	0.0058	0.0028
Method Group 321.XX PCT			41	0.1565	0.0105	0.0040	39	0.1567	0.0099	0.0029

Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 001.99	--	--	Method 010.12	--	--	Method 010.60	--	--	Method 010.XX	--	--	Method 010.XX	--
096	6.0650	.96	416	6.1282	-.25	086	6.2200	-.23	095	6.3150	.86	381	6.1800	-.51
320	6.0200	.24	326	6.1150	-.32	040	6.1950	-.51	023	6.3100	.83	390	6.1700	-.52
Avg	6.0033		137	6.0250	-1.26	024	6.1850	-.54	035	6.3000	.77	105	6.1850	-.59
193	5.9250	-1.23	415	6.0168	-1.32	394	6.2050	-.55	025	6.2950	.75	211	6.1500	-.65
						381	6.1800	-.70	162	6.3000	.72	142	6.1450	-.71
						390	6.1700	-.74	232	6.2950	.72	296	6.1500	-.77
--	Method 009.10	--	--	Method 010.60	--	142	6.1450	-.94	070	6.2950	.68	416	6.1282	-.84
030	6.2000	1.24	325	6.5300	2.67	296	6.1500	-.98	247	6.2850	.60	185	6.1250	-.85
090	6.2300	1.12	409	6.4200 s	2.56	073	6.1250	-1.15	233	6.2800	.55	073	6.1250	-.91
258	6.1600	.63	157	6.4250	1.69	009	6.1200	-1.18	029	6.2800	.54	177	6.1180	-.92
200	6.1550	.50	356	6.3800	1.33	055	6.1150	-1.22	262	6.2700	.53	009	6.1200	-.94
169	6.1220	.19	043	6.3450	1.12	361	6.1100	-1.24	330	6.2500	.53	326	6.1150	-.95
Avg	6.1159		369	6.3550	1.05	324	6.0900	-1.43	275	6.2750	.50	055	6.1150	-.97
392	6.0800	-.51	131	6.3530	1.02	007	6.1500 R	-1.64	041	6.2700	.46	361	6.1100	-.99
391	6.0500	-.78	096	6.3350	.95	057	6.0900	-1.65	028	6.2550	.45	324	6.0900	-1.17
257	5.9300	-1.77	389	6.3400	.91	018	6.0650	-1.66	372	6.2550	.39	288	6.0800	-1.26
			360	6.3200	.77	037	6.1100 R	-2.01	377	6.2600	.37	018	6.0650	-1.40
--	Method 010.11	--	095	6.3150	.67	027	5.9475	-2.75	049	6.2500	.33	057	6.0900 R	-1.42
322	6.4625 s	6.29	023	6.3100	.65	042	5.8400 s	-4.85	106	6.2500	.29	007	6.1500 R	-1.49
105	6.1850 R	1.23	035	6.3000	.60				102	6.2220	.24	137	6.0250	-1.77
405	6.2300	1.12	025	6.2950	.58	--	Method 010.99	--	292	6.2400	.20	037	6.1100 R	-1.82
395	6.2150	.86	232	6.2950	.54	234	6.1900	.90	034	6.2350	.15	415	6.0168	-1.83
220	6.2100	.81	070	6.2950	.48	024	6.2050	.70	220	6.2250	.14	027	5.9475	-2.45
028	6.1850	.36	330	6.2500	.47	Avg	6.1710		405	6.2300	.09	363	5.9350	-2.58
414	6.1850	.36	247	6.2850	.41	177	6.1180	-1.09	086	6.2200	.09	042	5.8400 s	-4.53
148	6.1800	.22	262	6.2700	.37				Avg	6.2196		114	5.7950 s	-4.87
029	6.1800	.01	233	6.2800	.36	--	Method 010.XX	--	024	6.2050	-.14			
Avg	6.1794		028	6.2550	.34	325	6.5300	2.80	395	6.2150	-.14	--	Method 020.10	--
211	6.1500	-.79	029	6.2800	.34	409	6.4200 s	2.61	351	6.1980	-.20	095	10.590	1.24
288	6.0800	-2.22	275	6.2750	.30	322	6.4625	2.19	220	6.2100	-.20	414	10.525	.75
363	5.9350 s	-5.48	041	6.2700	.27	157	6.4250	1.85	024	6.1850	-.32	090	10.520	.73
114	5.7950 s	-11.32	372	6.2550	.26	356	6.3800	1.49	040	6.1950	-.32	313	10.445	.36
			049	6.2500	.20	043	6.3450	1.27	414	6.1850	-.34	Avg	10.434	
--	Method 010.12	--	377	6.2600	.18	369	6.3550	1.23	028	6.1850	-.34	148	10.410	-.20
162	6.3000	1.68	106	6.2500	.11	131	6.3530	1.20	029	6.1800	-.36	030	10.400	-.26
102	6.2220	.90	Avg	6.2432		096	6.3350	1.12	148	6.1800	-.37	162	10.390	-1.05
351	6.1980	.60	034	6.2350	-.09	389	6.3400	1.09	394	6.2050	-.43	157	10.189	-1.88
Avg	6.1412		292	6.2400	-.10	360	6.3200	.94	234	6.1900	-.45	114	10.345 R	-2.22
185	6.1250	-.18	220	6.2250	-.22									

* 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 020.20	--	--	Method 020.50	--	--	Method 020.XX	--	--	Method 030.XX	--	--	Method 040.XX	--
292	10.730	1.68	361	10.620	.87	200	10.440	-.35	363	0.2300	2.10	409	10.260	-.88
381	10.725	1.65	Avg	10.422		313	10.445	-.36	409	0.1050	.58	220	10.265	-.90
391	10.720	1.59	157	10.224	-.86	148	10.410	-.41	096	0.0950	.26	363	10.170	-1.37
392	10.570	.62				288	10.405	-.44	193	0.1000	.22			
258	10.550	.61	--	Method 020.99	--	320	10.400	-.48	Avg	0.0844		--	Method 041.10	--
232	10.545	.42	300	10.505	1.20	030	10.400	-.48	247	0.0650	-.29	296	10.640	1.88
395	10.535	.37	Avg	10.413		390	10.395	-.61	220	0.0650	-.35	211	10.610	1.58
362	10.525	.30	320	10.400	-.17	142	10.380	-.63	320	0.0150	-.99	041	10.590	1.35
356	10.505	.18	234	10.335	-1.01	363	10.390	-.71	090	0.0000	-1.20	414	10.505 R	1.20
Avg	10.482					409	10.365	-.73				057	10.470	.53
257	10.440	-.28	--	Method 020.XX	--	234	10.335	-.96	--	Method 040.10	--	009	10.510	.51
324	10.445	-.30	389	12.210 s	12.88	162	10.390 R	-1.11	405	10.820	.85	102	10.487	.43
372	10.440	-.39	042	11.210 s	5.51	220	10.350	-1.12	Avg	10.670		040	10.490	.37
200	10.440	-.39	330	10.945 s	3.58	169	10.279	-1.39	090	10.520	-.88	105	10.485	.36
288	10.405	-.52	292	10.730	1.98	157	10.224	-1.78				055	10.485	.25
390	10.395	-.66	381	10.725	1.95	157	10.189	-2.03	--	Method 040.20	--	322	10.477	.17
363	10.390	-.73	391	10.720	1.89	369	10.170	-2.18	220	10.265	.84	177	10.473	.13
220	10.350	-1.11	193	10.650	1.42	114	10.345 R	-2.21	Avg	10.218		Avg	10.462	
169	10.279	-1.37	361	10.620	1.16				363	10.170	-.89	233	10.455	-.09
369	10.170	-2.10	095	10.590	.97	--	Method 030.10	--				029	10.450	-.16
			392	10.570	.81	090	0.0000	.00	--	Method 040.40	--	131	10.445	-.18
--	Method 020.30	--	258	10.550	.77				193	10.550	1.03	028	10.410	-.58
416	10.458	-.71	247	10.480	.60	--	Method 030.20	--	394	10.525	.77	049	10.360	-1.12
			232	10.545	.60	363	0.2300	.87	Avg	10.423		185	10.330	-1.40
--	Method 020.40	--	394	10.540	.56	Avg	0.1475		096	10.355	-.57	137	10.330	-1.42
042	11.210 s	7.15	395	10.535	.53	220	0.0650	-.86	409	10.260	-1.24	086	10.315 R	-1.74
193	10.650	1.76	414	10.525	.52							326	10.275	-1.97
247	10.480	.78	090	10.520	.50	--	Method 030.40	--	--	Method 040.99	--			
394	10.540	.63	362	10.525	.46	409	0.1050	1.42	247	10.420	.71	--	Method 041.20	--
Avg	10.476		035	10.470	.37	096	0.0950	.59				055	10.685	1.34
096	10.450	-.32	300	10.505	.35	193	0.1000	.33	--	Method 040.XX	--	106	10.555	.64
035	10.470	-.49	356	10.505	.32	Avg	0.0913		405	10.820	1.96	Avg	10.435	
142	10.380	-.94	Avg	10.464		247	0.0650	-1.01	193	10.550	.65	397	10.426	-.33
409	10.365	-1.09	416	10.458	-.05				090	10.520	.49	362	10.300	-.84
			257	10.440	-.18	--	Method 030.99	--	394	10.525	.47	415	10.210	-1.21
--	Method 020.50	--	096	10.450	-.18	320	0.0150	.71	Avg	10.432				
389	12.210 S	7.80	324	10.445	-.23				247	10.420	-.36	--	Method 041.30	--
330	10.945 S	2.30	372	10.440	-.35				096	10.355	-.43	260	10.385	.71

* 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 041.40	--	--	Method 041.XX	--	--	Method 041.XX	--	--	Method 050.00	--	--	Method 050.30	--
131	10.450	.97	296	10.640	1.54	137	10.330	-.67	258	29.120	.56	397	27.375 S	-1.96
029	10.425	.83	211	10.610	1.34	086	10.315	-.91	009	29.160	.51	351	27.213 S	-2.10
025	10.355	.47	041	10.590	1.19	362	10.300 R	-1.02	391	29.160	.50			
Avg	10.282		414	10.505 R	.95	326	10.275	-1.03	220	29.065	.28	--	Method 050.31	--
027	10.147	-.78	106	10.555	.95	262	10.255	-1.18	392	29.097	.27	086	31.455 S	.00
034	10.035	-1.43	070	10.530	.88	415	10.210	-1.48	029	29.065	.25			
			009	10.510	.63	377	10.210 R	-1.64	148	29.030	.05	--	Method 050.50	--
--	Method 041.50	--	095	10.495	.58	027	10.147	-1.92	Avg	29.020		106	28.655	1.02
007	10.800 S	2.64	397	10.477	.52	034	10.035	-2.71	257	29.005	-.06	247	28.720	.62
070	10.530	1.06	102	10.487	.52	393	10.020	-2.82	350	28.970	-.21	Avg	28.527	
361	10.460	.59	040	10.490	.51	351	9.5060 s	-6.42	211	28.955	-.24	324	28.205	-1.04
325	10.405	.28	057	10.470	.49				073	28.900	-.44			
360	10.375	.10	105	10.485	.49	--	Method 048.20	--	055	28.965	-.52	--	Method 050.51	--
023	10.365	.04	055	10.485	.45	193	9.1000	1.33	049	28.895	-.56	070	29.960	1.77
Avg	10.359		397	10.426	.43	247	9.0250	.81	028	28.865	-.63	023	29.420	.78
393	10.020	-1.99	322	10.477	.40	Avg	8.9713		414	28.860	-.64	393	29.100	.16
			177	10.473	.37	362	8.9600	-.08	043	28.800	-.80	Avg	29.035	
--	Method 041.60	--	361	10.460	.29	363	8.8000	-1.03	090	28.780	-.88	377	28.905	-.29
018	11.100 s	4.81	028	10.440	.25				326	28.725	-1.07	389	28.800	-.45
296	10.740	2.26	177	10.456	.25	--	Method 048.99	--	162	28.675	-1.23	007	28.750	-.72
095	10.495	.58	233	10.455	.25	275	8.2300 X	-.71	296	28.595	-1.52	361	28.310	-1.38
397	10.477	.52	131	10.450	.22				345	28.530	-1.76			
028	10.440	.25	029	10.450	.22	--	Method 048.XX	--	193	27.200 s	-6.51	--	Method 050.60	--
177	10.456	.24	131	10.445	.18	193	9.1000	.97				390	30.695 S	2.93
Avg	10.422		029	10.425	.05	247	9.0250	.69	--	Method 050.10	--	131	30.040	1.60
073	10.410	-.16	Avg	10.420		362	8.9600	.39	322	29.137	-.71	030	29.600	.75
043	10.400	-.26	325	10.405	-.15	Avg	8.8230					169	29.557	.64
037	10.410	-.30	073	10.410	-.16	363	8.8000	-.21	--	Method 050.30	--	415	29.428	.39
288	10.345	-.55	028	10.410	-.16	275	8.2300 X	-1.70	114	43.850 s	13.30	Avg	29.233	
262	10.255	-1.19	043	10.400	-.26				095	31.010 S	1.42	200	29.005	-.45
377	10.210	-1.66	037	10.410	-.29	--	Method 050.00	--	185	30.500	.92	288	28.990	-.48
351	9.5060 s	-6.50	260	10.385	-.30	131	30.005 s	3.52	262	30.100	.55	055	28.860	-.73
			360	10.375	-.32	233	29.785	2.74	405	29.645	.14	356	28.385	-1.68
--	Method 041.XX	--	023	10.365	-.39	372	29.560	1.93	Avg	29.603				
018	11.100 s	4.77	049	10.360	-.47	057	29.355	1.28	142	29.375	-.12	--	Method 050.61	--
007	10.800 s	2.76	025	10.355	-.52	416	29.248	.82	381	29.120	-.36	018	32.400 s	22.30
296	10.740	2.24	288	10.345	-.54	102	29.195	.62	137	28.875	-.58	105	29.105	1.34
055	10.685	1.86	185	10.330	-.65	095	29.180	.60	040	28.330 R	-1.17	037	29.005	.91

* 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 050.61	--	--	Method 050.XX	--	--	Method 050.XX	--	--	Method 060.00	--	--	Method 121.XX	--
035	29.070	.86	360	29.695	1.58	073	28.900	-.41	362	0.8450 R	.98	131	0.4370	.88
028	28.970	.74	405	29.645	1.44	055	28.965	-.41	363	0.8650	.67	102	0.4247	.69
Avg	28.938		030	29.600	1.35	377	28.905	-.43	Avg	0.7999		035	0.4030	.47
025	28.885	-.45	372	29.560	1.23	025	28.885	-.45	361	0.7350	-.67	009	0.3863	.13
034	28.920	-.53	169	29.557	1.23	137	28.875	-.47	416	0.6898	-1.15	Avg	0.3805	
029	28.845 X	-.64	023	29.420	.94	049	28.895	-.48	--	Method 060.99	--	247	0.3800	-.01
041	28.705	-1.64	415	29.428	.91	055	28.860	-.50	320	0.8150	.71	193	0.2520	-2.00
			394	29.385	.85	028	28.865	-.53	--	Method 060.XX	--	--	Method 131.00	--
--	Method 050.99	--	057	29.355	.79	414	28.860	-.54	193	0.9100	1.24	193	0.1640	.71
234	29.630 R	1.77	142	29.375	.78	029	28.845 X	-.54	362	0.8450 R	1.10	--	Method 131.99	--
360	29.695	1.45	330	29.210	.63	363	28.840	-.62	363	0.8650	.72	040	4.2300	-.71
394	29.385	.91	325	29.275	.53	389	28.800	-.65	320	0.8150	.15	--	Method 131.XX	--
325	29.275	.70	416	29.248	.46	043	28.800	-.66	Avg	0.8030		040	4.2300	.87
330	29.210	.69	258	29.120	.33	232	28.790	-.69	416	0.6898	-1.34	Avg	2.1970	
260	29.050	.39	102	29.195	.33	090	28.780	-.71	193	0.1640	-.87	193	0.1640	-.87
177	29.072	.37	105	29.105	.33	362	28.745	-.82	--	Method 101.30	--	--	Method 144.01	--
Avg	28.878		095	29.180	.32	326	28.725	-.84	131	0.8670	1.26	070	5.0850 s	3.74
232	28.790	-.19	322	29.137	.29	247	28.720	-.85	102	0.8293	.69	095	4.9600	1.24
363	28.840	-.22	009	29.160	.25	027	28.700	-.90	Avg	0.7856		296	4.9750	1.19
362	28.745	-.29	391	29.160	.24	041	28.705	-.92	247	0.7765	-.20	055	5.0000	1.10
027	28.700	-.31	381	29.120	.22	162	28.675	-.96	009	0.7602	-.43	157	4.9890	.95
275	28.270 X	-1.09	177	29.072	.19	007	28.750	-.99	035	0.6950	-1.49	351	4.9815	.85
369	27.505	-2.42	220	29.065	.16	296	28.595	-1.15	--	Method 121.00	--	043	4.9650	.68
395	26.295 s	-4.55	393	29.100	.15	106	28.655 R	-1.24	193	0.2520	.71	193	4.9200	.38
			029	29.065	.14	345	28.530	-1.32	233	4.9250	.35	324	4.9250	.25
--	Method 050.XX	--	392	29.097	.08	356	28.385	-1.69	--	Method 121.30	--	Avg	4.9113	
114	43.850 s	36.75	035	29.070	.05	361	28.310	-1.86	131	0.4370	1.23	288	4.8900	-.26
018	32.400 s	8.26	Avg	29.062		275	28.270 X	-1.98	102	0.4247	.75	405	4.8750	-.53
086	31.455 s	5.93	148	29.030	-.08	324	28.205	-2.13	Avg	0.4062		057	4.8750	-.61
095	31.010 s	4.88	257	29.005	-.14	040	28.330 R	-2.19	035	0.4030	-.80	102	4.8287	-1.01
390	30.695 s	4.09	200	29.005	-.15	369	27.505 A	-3.85	009	0.3863	-.83	137	4.8350	-1.02
185	30.500 A	3.56	288	28.990	-.19	397	27.375 s	-4.17	247	0.3800	-1.04	363	4.8650 R	-1.39
262	30.100	2.56	350	28.970	-.24	351	27.213 s	-4.57	--	Method 060.00	--	395	4.7250	-2.26
131	30.040	2.43	211	28.955	-.27	193	27.200 s	-4.61	193	0.9100	1.13			
131	30.005	2.33	037	29.005	-.34	395	26.295 s	-6.84						
070	29.960	2.23	260	29.050	-.35									
234	29.630 R	2.17	028	28.970	-.35									
233	29.785	1.79	034	28.920	-.40									

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 144.01	--	--	Method 144.XX	--	--	Method 144.XX	--	--	Method 165.00	--	--	Method 165.XX	--
262	3.9650 s	-11.49	409	12.570 s	46.60	232	4.4315	-2.50	023	0.0435	-2.01	220	0.0495	-.48
			070	5.0850 R	2.12	037	4.3600	-2.91	055	0.0310 s	-4.99			
--	Method 144.02	--	330	5.0650	1.46	131	4.0850 s	-4.57				057	0.0490	-.61
086	4.7750	-.71	389	5.0500	1.29	262	3.9650 s	-5.29	--	Method 165.70	--	391	0.0510	-.64
			393	5.0150	1.06	035	3.8950 s	-5.75	043	0.0475	.71	043	0.0475	-1.03
--	Method 144.03	--	055	5.0000	.96	372	3.0150 s	-11.02				324	0.0461	-1.18
Avg	4.7100		296	4.9750	.92				--	Method 165.99	--	232	0.0455	-1.31
361	4.7100	-.71	095	4.9600	.89	--	Method 151.30	--	300	0.0600	1.47	035	0.0448	-1.46
372	3.0150 S	-59.93	157	4.9890	.88	102	3.7395	.90	389	0.0600	1.47	023	0.0435	-1.75
			351	4.9815	.84	Avg	3.1448		360	0.0580	1.16	055	0.0310 s	-4.33
--	Method 144.50	--	043	4.9650	.74	247	2.5500	-.83	106	0.0550	.57			
200	4.8850 X	.71	023	4.9395	.66				409	0.0535	.38	--	Method 171.10	--
			363	4.8650	.65	--	Method 151.99	--	393	0.0530	.16	137	0.0700	.00
--	Method 144.99	--	220	4.9200	.52	409	5.0500	1.26	Avg	0.0521				
409	12.570 s	37.55	233	4.9250	.52	Avg	4.2517		394	0.0511	-.20	--	Method 181.00	--
330	5.0650	1.39	324	4.9250	.50	220	3.9000	-.64	009	0.0498	-.47	193	4.1500	1.40
389	5.0500	1.26	193	4.9200	.50	040	3.8050	-.71	057	0.0490	-.62	300	3.8000	.40
393	5.0150	1.08	394	4.9200	.47				324	0.0461	-1.13	394	3.7300	.34
023	4.9395	.75	200	4.8850 X	.47	--	Method 151.XX	--	232	0.0455	-1.24	Avg	3.6538	
220	4.9200	.64	029	4.9000	.34	409	5.0500	1.46	035	0.0448	-1.38	220	3.4500	-.57
394	4.9200	.61	057	4.8750	.29	220	3.9000	.26				397	3.1388	-1.39
029	4.9000	.52	288	4.8900	.28	Avg	3.8089		--	Method 165.XX	--			
247	4.8800	.42	405	4.8750	.25	040	3.8050	-.05	300	0.0600	1.70	--	Method 181.30	--
009	4.8351	.22	247	4.8800	.22	102	3.7395	-.31	389	0.0600	1.70	324	111.50 s	194.03
177	4.8375	.22	Avg	4.8428		247	2.5500	-1.48	258	0.0585	1.43	096	4.5000 R	2.25
Avg	4.7933		177	4.8375	-.06				360	0.0580	1.35	320	4.0000	1.17
136	4.7850	-.08	102	4.8287	-.11	--	Method 165.00	--	040	0.0545 R	1.09	035	3.6150	.74
028	4.7750	-.11	009	4.8351	-.13	258	0.0585	1.64	106	0.0550	.70	102	3.6988	.64
040	4.7500	-.21	137	4.8350	-.22	040	0.0545 R	1.26	397	0.0548	.63	157	3.7000	.63
300	4.7300	-.34	136	4.7850	-.36	397	0.0548	.73	257	0.0540	.50	106	3.6500	.55
397	4.5508	-1.21	086	4.7750	-.42	028	0.0540	.58	028	0.0540	.50	232	3.3500	.09
360	4.5350	-1.33	028	4.7750	-.42	257	0.0540	.58	409	0.0535	.47	Avg	3.3488	
232	4.4315	-1.77	040	4.7500	-.56	029	0.0530	.29	393	0.0530	.25	389	3.0000	-.63
037	4.3600	-2.09	300	4.7300	-.70	Avg	0.0518		029	0.0530	.25	009	2.9750	-.67
131	4.0850 S	-3.42	395	4.7250	-.71	392	0.0500	-.43	Avg	0.0518		247	2.1500	-2.15
035	3.8950 S	-4.37	361	4.7100	-.81	220	0.0495	-.56	394	0.0511	-.14			
			397	4.5508	-1.80	037	0.0495	-.65	392	0.0500	-.37	--	Method 181.99	--
			360	4.5350	-1.94	391	0.0510	-.74	009	0.0498	-.46	409	4.1500	-.71

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Laboratory Averages & Accuracy Indexes

Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index	Lab	Average*	Index
--	Method 181.XX	--	--	Method 191.30	--	--	Method 202.XX	--	--	Method 221.99	--	--	Method 241.00	--
324	111.50 s	201.14	Avg	73.870		009	62.785	1.21	409	0.0049	.90	220	0.5850	.24
096	4.5000 R	2.09	247	69.500	-.28	096	59.500	1.03	220	0.0047	.54	397	0.5835	.20
193	4.1500	1.25	035	53.050	-1.34	193	56.500	.84	Avg	0.0046		Avg	0.5706	
409	4.1500	1.22				106	56.000	.81	232	0.0042	-1.18	351	0.5645	-.09
320	4.0000	.94	--	Method 191.XX	--	102	52.512	.63				043	0.5700	-.15
035	3.6150 R	.63	193	109.50 R	2.20	389	46.000	.23	--	Method 221.XX	--	296	0.5645	-.19
300	3.8000	.57	009	92.415	.96	Avg	42.121		096	42.500 s	2831.61	395	0.5700	-.31
394	3.7300	.47	220	91.500	.91	397	37.150	-.30	086	0.0077 s	4.83	028	0.5500	-.35
102	3.6988	.39	102	80.515	.28	324	33.750	-.50	057	0.0060	2.07	390	0.5395	-.49
157	3.7000	.38	Avg	77.396		220	33.000	-.55	247	0.0057	1.54	262	0.5350	-.56
106	3.6500	.30	247	69.500	-.51	040	32.400	-.60	040	0.0055	1.39	177	0.5330	-.58
Avg	3.4959		035	53.050	-1.56	247	30.350	-.69	389	0.0052	.86	369	0.5050	-1.02
220	3.4500	-.13				320	21.500	-1.21	009	0.0049	.46	040	0.4325	-2.14
232	3.3500	-.29	--	Method 202.00	--	232	5.2500	-2.16	193	0.0049	.35			
397	3.1388	-.67	193	56.500	1.26				409	0.0049	.35	114	0.3650 s	-3.20
389	3.0000	-.92	Avg	42.217		--	Method 221.00	--	106	0.0047	.32	405	0.2100 s	-5.58
009	2.9750	-.97	397	37.150	-.45	086	0.0077 s	6.19	220	0.0047	.23			
247	2.1500	-2.51	220	33.000	-.83	193	0.0049	1.19	Avg	0.0046		--	Method 241.30	--
						028	0.0043	.32	102	0.0046	-.09	330	0.6250	1.30
--	Method 190.00	--	--	Method 202.30	--	Avg	0.0041		300	0.0044	-.32	131	0.6085	.99
027	22.328	.71	009	62.785	1.27	029	0.0039	-.43	028	0.0043	-.49	394	0.6000	.85
			096	59.500	1.03	390	0.0035	-1.35	232	0.0042	-.65	009	0.5957	.79
--	Method 190.99	--	106	56.000	.74				035	0.0041	-.78	409	0.5900	.67
009	22.558	-.71	102	52.512	.51	--	Method 221.30	--	324	0.0040	-1.01	057	0.5875	.65
			Avg	46.662		096	42.500 s	4614.21	029	0.0039	-1.07	360	0.5645	.34
--	Method 190.XX	--	389	46.000	-.05	057	0.0060	1.69	157	0.0039	-1.13	102	0.5656	.29
009	22.558	.87	324	33.750	-1.02	247	0.0057	1.24	393	0.0035	-1.65	157	0.5674	.28
Avg	22.443		040	32.400	-1.15	040	0.0055	1.10	390	0.0035 R	-1.81	324	0.5650	.25
027	22.328	-.87	247	30.350	-1.28	389	0.0052	.65				106	0.5600	.23
						009	0.0049	.32	--	Method 241.00	--	096	0.5600	.15
--	Method 191.00	--	--	Method 202.99	--	106	0.0047	.26	086	0.6707	1.55	Avg	0.5513	
193	109.50	1.05	409	63.000	1.24	Avg	0.0047		137	0.6500	1.23	232	0.5242	-.48
Avg	100.50		Avg	29.917		102	0.0046	-.17	136	0.6435	1.13	023	0.5030	-.85
220	91.500	-.62	320	21.500	-.32	300	0.0044	-.38	037	0.6360	1.02	035	0.4985 R	-1.01
			232	5.2500	-.93	035	0.0041	-.78	095	0.6225	.80	247	0.4900	-1.06
--	Method 191.30	--				324	0.0040	-.98	055	0.6100	.63	389	0.4650	-1.49
009	92.415	1.19	--	Method 202.XX	--	157	0.0039	-1.09	233	0.6100	.61	300	0.4000	-2.62
102	80.515	.47	409	63.000	1.23	393	0.0035	-1.54	029	0.5925 X	.34			

* 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 241.99	--	--	Method 241.XX	--	--	Method 251.XX	--	--	Method 261.30	--	--	Method 261.XX	--
234	0.5700	.62	320	0.5341 R	-.80	397	9.5720	.46	330	0.2450	2.49	234	0.2100	.61
Avg	0.5520		369	0.5050	-.91	Avg	8.3736		009	0.2238	.90	055	0.2150	.55
320	0.5341	-1.05	023	0.5030	-.94	040	8.1800	-.18	023	0.2200	.62	262	0.2150	.55
			035	0.4985	-1.09	220	7.7500	-.44	102	0.2177	.61	409	0.2150	.55
--	Method 241.XX	--	247	0.4900	-1.15	232	7.1500	-.47	035	0.2130	.53	035	0.2130	.53
086	0.6707	1.80	389	0.4650	-1.56	102	7.1073	-.49	157	0.2141	.18	397	0.2144	.51
137	0.6500	1.45	040	0.4325	-2.09	106	6.8500	-.62	Avg	0.2118		157	0.2141	.41
136	0.6435	1.35	193	0.4150	-2.38	157	6.7500	-.62	247	0.2095	-.31	296	0.2100	.39
037	0.6360	1.24	300	0.4000	-2.62	193	4.0000	-1.67	057	0.2081	-.37	247	0.2095	.25
330	0.6250	1.08	114	0.3650 s	-3.21				360	0.2060	-.57	057	0.2081	.20
095	0.6225	1.01	405	0.2100 s	-5.70	--	Method 261.00	--	131	0.2008	-.81	136	0.2105	.20
055	0.6100	.82				086	0.6707 s	26.06	389	0.2000	-.87	369	0.2100	.17
233	0.6100	.80	--	Method 251.00	--	043	0.2300	1.46	300	0.2000	-.87	Avg	0.2072	
131	0.6085	.78	397	9.5720	.94	037	0.2220	1.02	106	0.1950	-1.30	394	0.2070	-.12
394	0.6000	.65	220	7.7500	.44	392	0.2220	1.02				360	0.2060	-.30
009	0.5957	.60	Avg	7.1073		351	0.2175	.77	--	Method 261.31	--	131	0.2008	-.37
029	0.5925 X	.52	193	4.0000	-1.19	055	0.2150	.69	324	0.2350	.71	389	0.2000	-.42
409	0.5900	.48				262	0.2150	.69				300	0.2000	-.42
057	0.5875	.47	--	Method 251.30	--	397	0.2144	.65	--	Method 261.99	--	177	0.1990	-.48
220	0.5850	.41	096	14.500 S	2.28	136	0.2105	.38	234	0.2100	.92	257	0.1960	-.65
397	0.5835	.37	324	13.750	1.71	369	0.2100	.35	409	0.2150	.86	028	0.1965	-.66
234	0.5700	.36	247	11.500	.93	Avg	0.2038		394	0.2070	.18	193	0.1970	-.69
395	0.5700	.36	Avg	8.8512		177	0.1990	-.27	Avg	0.2064		232	0.1944	-.75
360	0.5645	.24	232	7.1500	-.58	257	0.1960	-.43	232	0.1944	-1.05	106	0.1950	-.77
043	0.5700	.22	102	7.1073	-.60	028	0.1965	-.45	320	0.2056	-1.33	220	0.1950	-.77
296	0.5645	.18	106	6.8500	-.71	193	0.1970	-.50				320	0.2056 R	-.90
102	0.5656	.16	157	6.7500	-.72	220	0.1950	-.56	--	Method 261.XX	--	040	0.1925	-1.09
157	0.5674	.11				390	0.1845	-1.08	086	0.6707 s	27.16	390	0.1845	-1.33
324	0.5650	.11	--	Method 251.99	--	258	0.1800	-1.33	330	0.2450	2.24	095	0.1810	-1.54
351	0.5645	.06	409	9.5000	.89	391	0.1595	-2.47	029	0.2450 X	2.22	258	0.1800	-1.59
Avg	0.5606		Avg	8.8400		405	0.0750 s	-7.19	324	0.2350 R	1.85	391	0.1595	-2.79
096	0.5600	-.01	040	8.1800	-.84				043	0.2300	1.34	405	0.0750 s	-7.75
106	0.5600	-.16				--	Method 261.11	--	009	0.2238	.98			
028	0.5500	-.23	--	Method 251.XX	--	029	0.2450 X	1.41	037	0.2220	.87	--	Method 271.00	--
390	0.5395	-.36	096	14.500 s	2.70	296	0.2100	.25	392	0.2220	.87	137	0.2500	1.29
262	0.5350	-.42	324	13.750	2.08	Avg	0.2071		023	0.2200	.76	Avg	0.0913	
177	0.5330	-.45	247	11.500	1.21	040	0.1925	-.69	102	0.2177	.70	193	0.0275 R	-.52
232	0.5242	-.60	409	9.5000	.47	095	0.1810	-.98	351	0.2175	.61	029	0.0140	-.63

* 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 271.00	--	--	Method 289.30	--	--	Method 291.30	--	--	Method 311.XX	--	--	Method 321.30	--
405	0.0100	-.66	157	5.8200	-1.11	232	32.700	-.67	102	0.6688	1.35	009	0.1721	1.46
			106	5.8500	-1.26	157	26.565	-2.08	247	0.6250	.50	389	0.1700	1.12
--	Method 271.30	--				324	4.2000 s	-7.33	009	0.6129	.26	324	0.1650 R	.79
157	0.0950	-.71	--	Method 289.99	--				Avg	0.6003		023	0.1660	.68
			409	8.0000	.85	--	Method 291.99	--	193	0.5625	-.75	247	0.1615	.20
--	Method 271.99	--	Avg	5.9000		409	42.500	.87	035	0.5325	-1.34	Avg	0.1608	
234	0.1300	.91	040	3.8000	-.88	Avg	32.075					057	0.1608	-.06
Avg	0.0875					035	21.650	-.87	--	Method 321.00	--	360	0.1595	-.17
220	0.0450	-.82	--	Method 289.XX	--				193	0.1750	1.99	394	0.1580	-.36
			009	13.590 s	6.55	--	Method 291.XX	--	258	0.1650 R	1.73	131	0.1565	-.55
--	Method 271.XX	--	409	8.0000	1.43	409	42.500	1.26	137	0.1700	1.46	040	0.1560	-.76
137	0.2500	2.01	057	7.5000	1.08	320	38.500 R	.71	043	0.1650	1.10	035	0.1540	-.84
234	0.1300 R	.68	389	7.4500	.95	096	39.000	.65	177	0.1625	.76	106	0.1500	-1.31
157	0.0950	.25	096	7.0000	.54	397	38.736	.61	037	0.1610	.61	300	0.1500	-1.31
Avg	0.0736		102	6.7783	.37	040	38.200	.52	397	0.1605	.57	157	0.1000 s	-7.39
220	0.0450	-.33	232	6.4500	.06	102	37.662	.42	369	0.1600	.52	330	0.0062 s	-18.78
193	0.0275	-.53	Avg	6.3999		193	37.000	.34	055	0.1600	.52			
029	0.0140	-.68	247	6.1500	-.23	009	37.180	.33	220	0.1550	.48	--	Method 321.99	--
405	0.0100	-.73	324	6.1500	-.32	247	36.650	.23	029	0.1585	.38	320	0.1589	1.12
			157	5.8200	-.52	220	36.000	.12	028	0.1575	.31	Avg	0.1524	
--	Method 281.99	--	106	5.8500	-.64	Avg	35.320		351	0.1565	.23	220	0.1520	-.19
296	0.0351	.65	220	5.8500	-.70	232	32.700	-.49	Avg	0.1545		232	0.1464	-1.10
Avg	0.0336		040	3.8000	-2.37	157	26.565	-1.54	095	0.1535	-.11			
040	0.0320	-1.04				035	21.650	-2.40	136	0.1530	-.15	--	Method 321.XX	--
			--	Method 291.00	--	324	4.2000 s	-5.46	296	0.1545	-.33	409	1.5750 s	142.70
--	Method 289.00	--	397	38.736	1.12				233	0.1500	-.43	102	0.1761	1.94
220	5.8500	.71	Avg	37.245		--	Method 301.99	--	257	0.1485	-.57	193	0.1750	1.91
			193	37.000	-.71	040	0.0850	.71	391	0.1450	-.90	258	0.1650 R	1.72
--	Method 289.30	--	220	36.000	-.86				390	0.1440	-1.04	009	0.1721	1.60
009	13.590 s	10.57				--	Method 311.00	--	392	0.1405	-1.34	389	0.1700	1.33
057	7.5000	1.56	--	Method 291.30	--	193	0.5625	.71	086	0.1393	-1.46	137	0.1700	1.33
389	7.4500	1.32	320	38.500 R	.93				114	0.1400 R	-1.67	043	0.1650	.97
096	7.0000	.63	096	39.000	.84	--	Method 311.99	--	395	0.1300	-2.32	324	0.1650	.97
102	6.7783	.39	040	38.200	.68	102	0.6688	1.12	200	0.1050 s	-4.71	023	0.1660	.95
Avg	6.5720		102	37.662	.54	247	0.6250	.30				177	0.1625	.58
232	6.4500	-.20	009	37.180	.41	009	0.6129	.11	--	Method 321.30	--	247	0.1615	.50
247	6.1500	-.63	247	36.650	.29	Avg	0.6098		409	1.5750 s	171.84	037	0.1610	.43
324	6.1500	-.73	Avg	35.422		035	0.5325	-1.46	102	0.1761	1.85	057	0.1608	.41

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

Laboratory Averages & Accuracy Indexes

<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>	<u>Lab</u>	<u>Average*</u>	<u>Index</u>
--	Method 321.XX	--												
397	0.1605	.39												
369	0.1600	.33												
055	0.1600	.33												
360	0.1595	.28												
320	0.1589	.24												
029	0.1585	.19												
028	0.1575	.17												
394	0.1580	.16												
Avg	0.1567													
351	0.1565	-.15												
131	0.1565	-.15												
035	0.1540	-.29												
095	0.1535	-.33												
136	0.1530	-.38												
040	0.1560	-.41												
296	0.1545	-.42												
220	0.1520	-.49												
220	0.1550	-.53												
106	0.1500	-.68												
300	0.1500	-.68												
233	0.1500	-.68												
257	0.1485	-.83												
232	0.1464	-1.06												
391	0.1450	-1.18												
390	0.1440	-1.32												
392	0.1405	-1.64												
086	0.1393	-1.77												
114	0.1400 R	-1.96												
395	0.1300	-2.69												
200	0.1050 s	-5.23												
157	0.1000 s	-5.71												
330	0.0062 s	-15.14												

* 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
001.99	3	0.0000	1.03	0.36	060.XX	6	0.0810	0.96	0.42
001.XX	3	0.0000	1.03	0.36	101.30	5	0.0000	1.02	0.27
009.10	8	0.0000	0.91	0.47	101.XX	5	0.0000	1.02	0.27
009.XX	8	0.0000	0.91	0.47	121.30	5	0.0000	0.97	0.39
010.11	13	-0.5811	3.48	2.12	121.XX	6	0.0000	1.04	0.14
010.12	8	0.0000	1.02	0.17	131.XX	2	0.0000	1.22	0.02
010.60	50	-0.0843	1.11	0.65	144.01	18	-0.5521	2.90	0.89
010.99	3	0.0000	0.95	0.48	144.03	2	-29.9636	42.38	0.52
010.XX	70	-0.1154	1.17	0.65	144.99	21	1.4186	8.41	0.27
020.10	9	-0.0756	0.90	0.81	144.XX	43	0.4989	7.56	0.38
020.20	19	0.0000	0.98	0.27	151.30	2	0.0000	1.17	0.26
020.40	8	0.8922	2.67	0.41	151.99	3	0.0000	1.09	0.19
020.50	4	2.5188	3.75	0.15	151.XX	5	0.0000	1.04	0.18
020.99	3	0.0000	1.09	0.21	165.00	12	-0.3596	1.71	0.45
020.XX	43	0.5208	2.34	0.44	165.99	12	0.0000	1.01	0.17
030.20	2	0.0000	1.20	0.18	165.XX	25	-0.1499	1.28	0.32
030.40	4	0.0000	0.68	0.73	181.00	5	0.0000	1.03	0.23
030.XX	8	0.0000	1.00	0.23	181.30	11	17.8265	58.45	0.42
040.10	2	0.0000	1.20	0.16	181.XX	17	11.9546	48.76	0.36
040.20	2	0.0000	0.70	0.71	190.XX	2	0.0000	1.22	0.04
040.40	4	0.0000	1.04	0.26	191.00	2	0.0000	0.87	0.61
040.XX	9	0.0000	1.00	0.24	191.30	4	0.0000	1.07	0.11
041.10	21	-0.0519	1.00	0.36	191.XX	6	0.3417	1.26	0.34
041.20	5	0.0000	1.03	0.24	202.00	3	0.0000	1.11	0.11
041.40	5	0.0000	1.06	0.10	202.30	8	0.0000	1.02	0.14
041.50	7	0.3673	1.35	0.27	202.99	3	0.0000	1.12	0.03
041.60	13	-0.1294	2.50	0.27	202.XX	14	0.0000	1.01	0.09
041.XX	45	-0.1028	1.59	0.30	221.00	5	1.1981	2.80	0.80
048.20	4	0.0000	0.71	0.70	221.30	13	4198.478	15137.83	534.34
048.XX	5	0.0000	0.99	0.33	221.99	3	0.0000	1.06	0.29
050.00	29	-0.1028	1.69	0.22	221.XX	21	2990.261	13702.42	483.67
050.30	11	0.9114	4.22	0.50	241.00	23	-0.3807	1.62	0.15
050.50	3	0.0000	0.89	0.56	241.30	18	-0.0507	1.00	0.17
050.51	7	0.0000	1.01	0.22	241.99	2	0.0000	0.59	0.76
050.60	9	0.3198	1.36	0.23	241.XX	43	-0.2165	1.37	0.19
050.61	9	2.4739	7.46	0.69	251.00	3	0.0000	1.09	0.21
050.99	14	-0.2301	1.59	0.36	251.30	7	0.2771	1.20	0.48
050.XX	79	0.4267	4.59	0.63	251.99	2	0.0000	1.00	0.50
060.00	5	0.0922	0.95	0.41	251.XX	12	0.1955	1.17	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
261.00	19	0.9932	6.36	0.21					
261.11	4	0.0000	1.04	0.25					
261.30	13	0.0000	0.98	0.28					
261.99	5	0.0000	0.66	0.74					
261.XX	42	0.4989	4.49	0.31					
271.00	4	-0.1298	0.95	0.03					
271.99	2	0.0000	1.16	0.28					
271.XX	7	0.0920	0.99	0.09					
281.99	2	0.0000	0.90	0.59					
281.XX	2	0.0000	0.90	0.59					
289.30	10	1.0381	3.40	0.72					
289.99	2	0.0000	1.21	0.14					
289.XX	13	0.4955	2.02	0.42					
291.00	3	0.0000	0.95	0.48					
291.30	9	-0.7345	2.64	0.22					
291.99	2	0.0000	1.22	0.06					
291.XX	14	-0.3501	1.75	0.15					
311.99	4	0.0000	1.07	0.10					
311.XX	5	0.0000	1.05	0.10					
321.00	25	-0.2029	1.36	0.41					
321.30	17	8.5972	42.34	0.78					
321.99	3	0.0000	1.07	0.26					
321.XX	43	-0.6181	2.73	0.35					