

- Pass 1 Results for 170 Labs - - Pass 2 Results for 168 Labs -

| Method | AOAC 18th | Method Code | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups |
|--|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| NPN, Automated | | 000.03 | 1 | 0.77500 | 0.00707 | 0.01000 | 1 | 0.77500 | 0.00707 | 0.01000 |
| Loss on Drying, Vac 95 deg 5 hr | 934.01 | 001.00 | 7 | 3.75357 | 0.57620 | 0.07857 | 7 | 3.75357 | 0.57620 | 0.07857 |
| Loss on Drying, ISO 6496 | | 001.03 | 3 | 2.94250 | 0.37136 | 0.09967 | 3 | 2.94250 | 0.37136 | 0.09967 |
| Loss on Drying, LECO | | 001.05 | 1 | 3.14500 | 0.00707 | 0.01000 | 1 | 3.14500 | 0.00707 | 0.01000 |
| Loss on Drying, 104 deg 3 hr, in malt | 935.29 | 001.07 | 20 | 3.63025 | 0.37037 | 0.12950 | 20 | 3.63025 | 0.37037 | 0.12950 |
| Loss on Drying, 102 deg 16 hr, in meat | 950.46 | 001.08 | 1 | 4.77500 | 0.00707 | 0.01000 | 1 | 4.77500 | 0.00707 | 0.01000 |
| Loss on Drying, Misc | | 001.99 | 9 | 3.64615 | 0.61959 | 0.11930 | 9 | 3.64615 | 0.61959 | 0.11930 |
| Method Group 001.XX PCT | | | 41 | 3.62056 | 0.53312 | 0.11055 | 41 | 3.62056 | 0.53312 | 0.11055 |
| Protein, Crude | 954.01 | 002.00 | 2 | 3.94500 | 0.18628 | 0.04000 | 2 | 3.94500 | 0.18628 | 0.04000 |
| Protein, Auto Kjel-Foss | 976.05 | 002.01 | 2 | 4.00750 | 0.08302 | 0.11500 | 2 | 4.00750 | 0.08302 | 0.11500 |
| Protein, Semiauto Autoanalyzer | 976.06 | 002.02 | 2 | 4.37750 | 0.32305 | 0.05500 | 2 | 4.37750 | 0.32305 | 0.05500 |
| Protein, Copper Cat | 984.13 | 002.04 | 1 | 4.51000 | 0.11314 | 0.16000 | 1 | 4.51000 | 0.11314 | 0.16000 |
| Protein, Copper, Boric Acid | | 002.05 | 6 | 4.13836 | 0.25713 | 0.08748 | 5 | 4.04603 | 0.12284 | 0.02498 |
| Protein, Combustion Nitrogen Analyzer | 990.03 | 002.06 | 34 | 4.04087 | 0.27188 | 0.13426 | 31 | 4.00779 | 0.24299 | 0.10152 |
| Protein, Cu/Ti | 988.05 | 002.08 | 4 | 3.78375 | 0.30558 | 0.06500 | 4 | 3.78375 | 0.30558 | 0.06500 |
| Protein, Block dig/distillation | | 002.10 | 2 | 4.06250 | 0.04349 | 0.00500 | 2 | 4.06250 | 0.04349 | 0.00500 |
| Protein, Misc | | 002.99 | 1 | 4.25565 | 0.00191 | 0.00270 | 1 | 4.25565 | 0.00191 | 0.00270 |
| Method Group 002.XX PCT | | | 54 | 4.05380 | 0.28091 | 0.11005 | 50 | 4.02315 | 0.25508 | 0.08249 |
| Fat, Eth Ext, Direct | 920.39 | 003.00 | 5 | 1.76666 | 0.63955 | 0.12924 | 5 | 1.76666 | 0.63955 | 0.12924 |
| Fat, Pet Ether | | 003.06 | 8 | 2.12750 | 0.40786 | 0.12000 | 7 | 2.03857 | 0.33793 | 0.06571 |
| Fat, Soxtec, Eth Ext | | 003.09 | 4 | 2.05331 | 0.56155 | 0.17263 | 4 | 2.05331 | 0.56155 | 0.17263 |
| Fat, Soxtec, Pet Ether | | 003.10 | 7 | 1.76586 | 0.56079 | 0.08371 | 7 | 1.76586 | 0.56079 | 0.08371 |
| Fat, Hexane Ext. | | 003.12 | 2 | 2.17000 | 0.32094 | 0.07000 | 2 | 2.17000 | 0.32094 | 0.07000 |
| Fat, Soxtec, Hexane Ext. | | 003.13 | 2 | 1.51000 | 0.15663 | 0.12000 | 2 | 1.51000 | 0.15663 | 0.12000 |
| Fat, Ankom | | 003.14 | 6 | 1.32250 | 0.21780 | 0.07500 | 6 | 1.32250 | 0.21780 | 0.07500 |
| Fat, Misc | | 003.99 | 4 | 2.22313 | 0.93112 | 0.22025 | 4 | 2.22313 | 0.93112 | 0.22025 |
| Method Group 003.XX PCT | | | 38 | 1.85829 | 0.59438 | 0.12089 | 37 | 1.83419 | 0.58213 | 0.11064 |
| Fiber, Crude Asbestos Free | 962.09 | 004.00 | 8 | 1.91188 | 0.65314 | 0.10000 | 8 | 1.91188 | 0.65314 | 0.10000 |
| Fiber, Sing Filt | | 004.01 | 1 | 2.24500 | 0.44548 | 0.63000 | 1 | 2.24500 | 0.44548 | 0.63000 |
| Fiber, Fibertec | | 004.06 | 8 | 1.32448 | 0.19722 | 0.08400 | 8 | 1.32448 | 0.19722 | 0.08400 |
| Fiber, ANKOM | | 004.07 | 8 | 2.26375 | 0.70377 | 0.31750 | 7 | 2.18214 | 0.68681 | 0.21286 |
| Fiber, Misc | | 004.99 | 1 | 3.48000 | 0.43841 | 0.62000 | 1 | 3.48000 | 0.43841 | 0.62000 |
| Method Group 004.XX PCT | | | 26 | 1.91253 | 0.73356 | 0.20238 | 25 | 1.87563 | 0.71604 | 0.16848 |
| Ash, | 942.05 | 005.00 | 63 | 74.9791 | 2.27586 | 0.28283 | 59 | 74.8642 | 2.13800 | 0.23574 |
| Ash, LECO | | 005.02 | 1 | 76.8500 | 0.07071 | 0.10000 | 1 | 76.8500 | 0.07071 | 0.10000 |
| Ash, NIR | | 005.11 | 1 | 76.2050 | 0.60104 | 0.85000 | 1 | 76.2050 | 0.60104 | 0.85000 |
| Ash, Misc | | 005.99 | 9 | 76.4443 | 0.72806 | 0.28956 | 9 | 76.4443 | 0.72806 | 0.28956 |
| Method Group 005.XX PCT | | | 74 | 75.1992 | 2.17953 | 0.28884 | 70 | 75.1149 | 2.06341 | 0.24949 |
| Fiber, Acid Detergent | 973.18 | 008.02 | 2 | 1.90000 | 0.47582 | 0.08000 | 2 | 1.90000 | 0.47582 | 0.08000 |

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| Fiber, Acid Detergent by ANKOM | | 008.08 | 3 | 2.32000 | 0.33900 | 0.24667 | 3 | 2.32000 | 0.33900 | 0.24667 |
| Fiber, Acid Detergent Misc | | 008.99 | 2 | 1.53750 | 1.01082 | 0.13500 | 2 | 1.53750 | 1.01082 | 0.13500 |
| Method Group 008.XX PCT | | | 7 | 1.97643 | 0.66917 | 0.16714 | 7 | 1.97643 | 0.66917 | 0.16714 |
| Fiber, Neutral Det-ENZ Pretreat | | 009.07 | 3 | 8.26667 | 5.41619 | 0.52667 | 3 | 8.26667 | 5.41619 | 0.52667 |
| Fiber, Neutral Detergent by ANKOM | | 009.09 | 2 | 3.71750 | 0.16581 | 0.27500 | 2 | 3.71750 | 0.16581 | 0.27500 |
| Fiber, Neutral Det Misc | | 009.99 | 1 | 6.07500 | 0.07778 | 0.11000 | 1 | 6.07500 | 0.07778 | 0.11000 |
| Method Group 009.XX PCT | | | 6 | 6.38500 | 4.22829 | 0.37333 | 6 | 6.38500 | 4.22829 | 0.37333 |
| Moisture, Karl-Fischer | 966.20 | 010.03 | 1 | 2.89000 | 0.26870 | 0.38000 | 1 | 2.89000 | 0.26870 | 0.38000 |
| Moisture, Misc | | 010.99 | 8 | 3.37450 | 0.23032 | 0.07000 | 8 | 3.37450 | 0.23032 | 0.07000 |
| Method Group 010.XX PCT | | | 9 | 3.32067 | 0.27496 | 0.10444 | 9 | 3.32067 | 0.27496 | 0.10444 |
| Loss on Drying, 135 deg 2 hr | 930.15 | 011.01 | 37 | 4.45474 | 0.38108 | 0.09802 | 34 | 4.44545 | 0.38876 | 0.07609 |
| Method Group 011.XX PCT | | | 37 | 4.45474 | 0.38108 | 0.09802 | 34 | 4.44545 | 0.38876 | 0.07609 |
| Starch, Polarimetric (Ewers) | | 012.00 | 1 | 0.30000 | 0.14142 | 0.20000 | 1 | 0.30000 | 0.14142 | 0.20000 |
| Starch, Megazyme | | 012.01 | 2 | 2.51250 | 1.14378 | 0.14500 | 2 | 2.51250 | 1.14378 | 0.14500 |
| Starch, Enzymatic | | 012.03 | 1 | 1.64000 | 0.14142 | 0.20000 | 1 | 1.64000 | 0.14142 | 0.20000 |
| Starch, YSI Analyzer | | 012.04 | 2 | 1.67500 | 0.78899 | 0.15000 | 2 | 1.67500 | 0.78899 | 0.15000 |
| Method Group 012.XX PCT | | | 6 | 1.71917 | 1.06165 | 0.16500 | 6 | 1.71917 | 1.06165 | 0.16500 |
| Fat, Mojonier, Bak Ext | 954.02 | 013.02 | 8 | 2.63688 | 0.32155 | 0.19125 | 7 | 2.67429 | 0.30328 | 0.12857 |
| Fat, Soxtec-Acid Hydrolysis | | 013.10 | 6 | 2.37750 | 0.28036 | 0.14500 | 6 | 2.37750 | 0.28036 | 0.14500 |
| Fat, Super Critical Fluid Extraction | | 013.11 | 2 | 2.60000 | 0.59839 | 0.41000 | 2 | 2.60000 | 0.59839 | 0.41000 |
| Fat, Pretreat or extended ext, misc | | 013.99 | 1 | 1.23000 | 0.04243 | 0.06000 | 1 | 1.23000 | 0.04243 | 0.06000 |
| Method Group 013.XX PCT | | | 17 | 2.45824 | 0.46638 | 0.19294 | 16 | 2.46344 | 0.47399 | 0.16563 |
| Aluminum, ICP | | 015.00 | 11 | 1433.53 | 170.449 | 61.6818 | 10 | 1424.14 | 172.569 | 45.5500 |
| Method Group 015.XX PPM | | | 11 | 1433.53 | 170.449 | 61.6818 | 10 | 1424.14 | 172.569 | 45.5500 |
| Arsenic, ICP | | 016.02 | 5 | 2.88805 | 1.11651 | 0.35050 | 5 | 2.88805 | 1.11651 | 0.35050 |
| Method Group 016.XX PPM | | | 5 | 2.88805 | 1.11651 | 0.35050 | 5 | 2.88805 | 1.11651 | 0.35050 |
| Boron, ICP | | 017.00 | 7 | 9.50571 | 2.88254 | 0.90286 | 7 | 9.50571 | 2.88254 | 0.90286 |
| Method Group 017.XX PPM | | | 7 | 9.50571 | 2.88254 | 0.90286 | 7 | 9.50571 | 2.88254 | 0.90286 |
| Cadmium, AA | | 018.01 | 1 | 0.66600 | 0.05940 | 0.08400 | 1 | 0.66600 | 0.05940 | 0.08400 |
| Cadmium, ICP | | 018.02 | 8 | 0.92406 | 0.23204 | 0.06388 | 7 | 0.94557 | 0.23676 | 0.03971 |
| Method Group 018.XX PPM | | | 9 | 0.89539 | 0.23384 | 0.06611 | 8 | 0.91063 | 0.24070 | 0.04525 |
| Calcium, Ox-Mn04 Vol | 927.02 | 019.00 | 12 | 17.8528 | 0.73424 | 0.14533 | 12 | 17.8528 | 0.73424 | 0.14533 |
| Calcium, At Abs Spect | 968.08 | 019.01 | 39 | 17.3424 | 0.92263 | 0.24256 | 36 | 17.2998 | 0.93594 | 0.18778 |
| Calcium, Semiauto (Autoanalyzer) | | 019.03 | 3 | 17.2667 | 0.65534 | 0.11333 | 3 | 17.2667 | 0.65534 | 0.11333 |
| Calcium, ICP, Dry Ash | | 019.05 | 38 | 17.5797 | 0.70762 | 0.26702 | 35 | 17.6392 | 0.65424 | 0.14333 |
| Calcium, EDTA | | 019.08 | 4 | 17.1613 | 0.87049 | 0.12750 | 4 | 17.1613 | 0.87049 | 0.12750 |
| Calcium, ICP, Wet Ash | | 019.09 | 34 | 17.5507 | 0.92716 | 0.34553 | 33 | 17.5391 | 0.93339 | 0.32115 |
| Calcium, Misc | | 019.99 | 8 | 16.4107 | 1.12924 | 0.61787 | 7 | 16.1831 | 0.88491 | 0.34786 |
| Method Group 019.XX PCT | | | 138 | 17.4425 | 0.90368 | 0.28182 | 130 | 17.4378 | 0.90096 | 0.21080 |

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|---------------------------|--------------|----------------|-------------------|---------------|--------------|--------------------------------|-------------------|---------------|--------------|--------------------------------|
| Chromium, AA | | 020.00 | 2 | 37.2225 | 0.50069 | 0.19500 | 2 | 37.2225 | 0.50069 | 0.19500 |
| Chromium, ICP | | 020.01 | 10 | 31.8454 | 4.14247 | 1.61200 | 9 | 32.3017 | 3.77603 | 0.72333 |
| Chromium, Misc | | 020.99 | 1 | 35.4500 | 3.74767 | 5.30000 | 1 | 35.4500 | 3.74767 | 5.30000 |
| Method Group 020.XX PPM | | | 13 | 32.9499 | 4.24621 | 1.67769 | 12 | 33.3842 | 3.87719 | 1.01667 |
| Cobalt, AA | 968.08 | 021.01 | 8 | 31.5275 | 9.43181 | 1.51000 | 8 | 32.3650 | 10.6309 | 1.03500 |
| Cobalt, ICP | | 021.02 | 19 | 28.0604 | 4.15679 | 1.20724 | 17 | 28.1169 | 3.99895 | 0.65565 |
| Cobalt, Misc | | 021.99 | 4 | 24.2188 | 5.93125 | 0.52250 | 4 | 24.2188 | 5.93125 | 0.52250 |
| Method Group 021.XX PPM | | | 31 | 28.4594 | 6.42803 | 1.19702 | 28 | 28.0208 | 6.01405 | 0.72557 |
| Copper, AA | 968.08 | 022.01 | 26 | 782.165 | 38.3532 | 16.1738 | 25 | 781.152 | 38.0707 | 13.9008 |
| Copper, ICP, Dry Ash | 968.08 | 022.03 | 28 | 790.500 | 48.8045 | 23.6879 | 27 | 791.666 | 48.1964 | 20.5652 |
| Copper, ICP, Wet Ash | 968.08 | 022.05 | 36 | 779.889 | 57.8304 | 14.6574 | 34 | 780.092 | 56.3695 | 11.5079 |
| Copper, Misc | | 022.99 | 6 | 724.631 | 58.8982 | 13.8750 | 6 | 724.631 | 58.8982 | 13.8750 |
| Method Group 022.XX PPM | | | 96 | 780.147 | 52.4196 | 17.6531 | 92 | 780.160 | 51.7131 | 14.9706 |
| Iodine, Elm-Cald | 935.14 | 024.01 | 2 | 62.9500 | 6.86076 | 8.60000 | 2 | 62.9500 | 6.86076 | 8.60000 |
| Iodine, Ion Sel Electrode | | 024.03 | 1 | 31.5000 | 0.70711 | 1.00000 | 1 | 31.5000 | 0.70711 | 1.00000 |
| Iodine, Misc | | 024.99 | 1 | 35.8900 | 0.36770 | 0.52000 | 1 | 35.8900 | 0.36770 | 0.52000 |
| Method Group 024.XX PPM | | | 4 | 48.3225 | 16.3569 | 4.68000 | 4 | 48.3225 | 16.3569 | 4.68000 |
| Iron, AA | 968.08 | 025.01 | 15 | 4154.23 | 1265.26 | 100.759 | 14 | 4228.46 | 1277.39 | 84.3850 |
| Iron, ICP, Dry Ash | 968.08 | 025.03 | 31 | 4422.16 | 698.266 | 170.587 | 30 | 4388.90 | 678.507 | 142.183 |
| Iron, ICP, Wet Ash | 968.08 | 025.05 | 30 | 3953.16 | 1095.16 | 145.075 | 27 | 3886.00 | 1096.69 | 77.2681 |
| Iron, Misc | | 025.99 | 2 | 2842.40 | 1908.06 | 154.100 | 2 | 2842.40 | 1908.06 | 154.100 |
| Method Group 025.XX PPM | | | 78 | 4149.74 | 1052.22 | 146.923 | 73 | 4129.76 | 1050.53 | 107.415 |
| Lead, | | 026.00 | 5 | 1.81923 | 1.06415 | 0.47998 | 5 | 1.81923 | 1.06415 | 0.47998 |
| Lead, Misc | | 026.99 | 2 | 1.72938 | 1.05294 | 0.50875 | 2 | 1.72938 | 1.05294 | 0.50875 |
| Method Group 026.XX PPM | | | 7 | 1.79356 | 1.02059 | 0.48820 | 7 | 1.79356 | 1.02059 | 0.48820 |
| Magnesium, AA | 968.08 | 027.01 | 28 | 1.17504 | 0.06785 | 0.02496 | 26 | 1.17153 | 0.06421 | 0.01631 |
| Magnesium, ICP, Dry Ash | 968.08 | 027.03 | 36 | 1.16207 | 0.07252 | 0.02690 | 34 | 1.16234 | 0.07036 | 0.01878 |
| Magnesium, ICP, Wet Ash | 968.08 | 027.05 | 32 | 1.14950 | 0.08371 | 0.03031 | 30 | 1.15265 | 0.08378 | 0.02397 |
| Magnesium, Misc | | 027.99 | 5 | 1.10500 | 0.11940 | 0.03560 | 5 | 1.10500 | 0.11940 | 0.03560 |
| Method Group 027.XX PCT | | | 101 | 1.15886 | 0.07875 | 0.02788 | 95 | 1.15878 | 0.07714 | 0.02062 |
| Manganese, AA | 968.08 | 028.01 | 27 | 2142.35 | 142.526 | 46.8989 | 25 | 2150.18 | 136.008 | 34.1288 |
| Manganese, ICP, Dry Ash | 968.08 | 028.03 | 31 | 2133.37 | 153.407 | 41.2855 | 29 | 2142.06 | 150.339 | 29.2110 |
| Manganese, ICP, Wet Ash | 968.08 | 028.05 | 35 | 2164.35 | 200.995 | 44.6697 | 33 | 2161.58 | 205.519 | 36.4679 |
| Manganese, Misc | | 028.99 | 5 | 1979.84 | 231.753 | 51.6000 | 5 | 1979.84 | 231.753 | 51.6000 |
| Method Group 028.XX PPM | | | 98 | 2139.07 | 176.635 | 44.5669 | 92 | 2142.46 | 176.721 | 34.3672 |
| Mercury, | | 029.00 | 1 | 0.02150 | 0.00071 | 0.00100 | 1 | 0.02150 | 0.00071 | 0.00100 |
| Phosphorus, Photometric | 965.17 | 031.01 | 40 | 3.07024 | 0.13268 | 0.05012 | 37 | 3.06323 | 0.12395 | 0.03688 |
| Phosphorus, GQMP (2.028) | 964.06 | 031.02 | 5 | 3.07617 | 0.05367 | 0.02764 | 5 | 3.07617 | 0.05367 | 0.02764 |
| Phosphorus, Autoanalyzer | | 031.03 | 5 | 3.11200 | 0.03120 | 0.01600 | 5 | 3.11200 | 0.03120 | 0.01600 |

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| Phosphorus, ICP | | 031.05 | 69 | 3.08335 | 0.19860 | 0.06970 | 65 | 3.07780 | 0.19446 | 0.05082 |
| Phosphorus, Hach Method | | 031.06 | 1 | 2.95000 | 0.01414 | 0.02000 | 1 | 2.95000 | 0.01414 | 0.02000 |
| Phosphorus, Misc | | 031.99 | 8 | 3.03963 | 0.18948 | 0.10300 | 7 | 3.07386 | 0.15867 | 0.06057 |
| Method Group 031.XX PCT | | | 128 | 3.07632 | 0.17086 | 0.06153 | 120 | 3.07337 | 0.16386 | 0.04442 |
| Potassium, ICP | 949.01 | 032.00 | 1 | 0.32565 | 0.01386 | 0.01960 | 1 | 0.32565 | 0.01386 | 0.01960 |
| Potassium, AA | 975.03 | 032.01 | 23 | 0.35493 | 0.09179 | 0.01628 | 22 | 0.35061 | 0.09112 | 0.01339 |
| Potassium, Flame Emission | 956.01 | 032.02 | 6 | 0.34667 | 0.08740 | 0.01533 | 5 | 0.33000 | 0.08534 | 0.00640 |
| Potassium, ICP | | 032.05 | 57 | 0.33889 | 0.07985 | 0.01681 | 53 | 0.32863 | 0.06024 | 0.01380 |
| Potassium, Misc | | 032.99 | 4 | 0.29550 | 0.03483 | 0.00900 | 4 | 0.29550 | 0.03483 | 0.00900 |
| Method Group 032.XX PCT | | | 91 | 0.34141 | 0.08207 | 0.01627 | 85 | 0.33280 | 0.07048 | 0.01310 |
| Salt, Sol Cl | 943.01 | 033.00 | 17 | 24.4312 | 0.82331 | 0.29765 | 17 | 24.4312 | 0.82331 | 0.29765 |
| Salt, Poten Cl | 969.10 | 033.01 | 27 | 24.9635 | 0.56089 | 0.25538 | 26 | 24.9867 | 0.54714 | 0.22135 |
| Salt, Quantab | | 033.03 | 3 | 25.1667 | 1.82558 | 0.78667 | 3 | 25.1667 | 1.82558 | 0.78667 |
| Salt, Ion Sel Electrode | | 033.05 | 1 | 25.3000 | 0.14142 | 0.20000 | 1 | 25.3000 | 0.14142 | 0.20000 |
| Salt, Misc | | 033.99 | 10 | 24.8670 | 0.92803 | 0.30400 | 10 | 24.8670 | 0.92803 | 0.30400 |
| Method Group 033.XX PCT | | | 58 | 24.8071 | 0.83170 | 0.30268 | 57 | 24.8150 | 0.83344 | 0.28799 |
| Selenium, Fluor | 969.06 | 034.01 | 2 | 25.5950 | 5.85458 | 2.11000 | 2 | 25.5950 | 5.85458 | 2.11000 |
| Selenium, AA, Hydride | | 034.04 | 8 | 30.9938 | 3.08188 | 0.53750 | 7 | 31.2071 | 3.22692 | 0.32857 |
| Selenium, ICP | | 034.05 | 8 | 27.8563 | 5.55649 | 1.38475 | 7 | 27.0143 | 5.30832 | 0.73971 |
| Selenium, AA, Furnace | | 034.06 | 1 | 32.6000 | 0.00000 | 0.00000 | 1 | 32.6000 | 0.00000 | 0.00000 |
| Selenium, Misc | | 034.99 | 3 | 33.4550 | 1.96877 | 0.07000 | 3 | 33.4550 | 1.96877 | 0.07000 |
| Method Group 034.XX PPM | | | 22 | 29.7707 | 4.76805 | 0.90036 | 20 | 29.5853 | 4.87005 | 0.59540 |
| Sodium, AA | | 035.00 | 19 | 9.72147 | 0.51814 | 0.17028 | 19 | 9.72147 | 0.51814 | 0.17028 |
| Sodium, Ion Sel Electrode | | 035.01 | 1 | 9.64200 | 0.03111 | 0.04400 | 1 | 9.64200 | 0.03111 | 0.04400 |
| Sodium, ICP | | 035.03 | 50 | 9.63118 | 0.44325 | 0.18340 | 47 | 9.62893 | 0.41762 | 0.11507 |
| Sodium, Flame Emission | 956.01 | 035.05 | 6 | 10.3117 | 0.82247 | 0.12000 | 6 | 10.3117 | 0.82247 | 0.12000 |
| Sodium, Misc | | 035.99 | 2 | 8.70250 | 0.04924 | 0.08500 | 2 | 8.70250 | 0.04924 | 0.08500 |
| Method Group 035.XX PCT | | | 78 | 9.68184 | 0.54329 | 0.17102 | 75 | 9.68246 | 0.53423 | 0.12770 |
| Sulfur, ICP | | 036.03 | 25 | 0.57989 | 0.09418 | 0.01213 | 24 | 0.57514 | 0.09288 | 0.00997 |
| Method Group 036.XX PCT | | | 25 | 0.57989 | 0.09418 | 0.01213 | 24 | 0.57514 | 0.09288 | 0.00997 |
| Zinc, AA | 968.08 | 037.01 | 27 | 2451.82 | 174.993 | 86.6578 | 25 | 2447.35 | 162.922 | 65.2304 |
| Zinc, ICP, Dry Ash | 968.08 | 037.03 | 30 | 2370.10 | 219.796 | 52.9055 | 28 | 2379.77 | 222.287 | 42.3869 |
| Zinc, ICP, Wet Ash | 968.08 | 037.05 | 37 | 2359.10 | 255.006 | 42.9944 | 36 | 2353.60 | 256.082 | 40.2026 |
| Zinc, Misc | | 037.99 | 5 | 2242.14 | 362.868 | 84.5160 | 5 | 2242.14 | 362.868 | 84.5160 |
| Method Group 037.XX PPM | | | 99 | 2381.81 | 235.348 | 60.0030 | 94 | 2380.40 | 234.992 | 49.8667 |
| Molybdenum, ICP | | 038.00 | 15 | 2.98537 | 1.24110 | 0.34353 | 15 | 2.98537 | 1.24110 | 0.34353 |
| Molybdenum, Misc | | 038.99 | 1 | 5.45000 | 0.49497 | 0.70000 | 1 | 5.45000 | 0.49497 | 0.70000 |
| Method Group 038.XX PPM | | | 16 | 3.13941 | 1.34769 | 0.36581 | 16 | 3.13941 | 1.34769 | 0.36581 |
| Nickel, AA | | 039.01 | 1 | 11.3500 | 0.07071 | 0.10000 | 1 | 11.3500 | 0.07071 | 0.10000 |

- Pass 1 Results for 170 Labs - - Pass 2 Results for 168 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 |
|--|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| | | | | | | | | | | |
| Nickel, ICP | | 039.02 | 8 | 13.1823 | 2.95672 | 1.84275 | 7 | 13.1226 | 2.73319 | 0.93457 |
| Method Group 039.XX PPM | | | 9 | 12.9787 | 2.83991 | 1.64911 | 8 | 12.9011 | 2.61557 | 0.83025 |
| Barium, ICP | | 040.00 | 1 | 3.36500 | 0.03536 | 0.05000 | 1 | 3.36500 | 0.03536 | 0.05000 |
| Vanadium, ICP | | 041.00 | 2 | 23.6000 | 3.65787 | 0.60000 | 2 | 23.6000 | 3.65787 | 0.60000 |
| Method Group 041.XX PPM | | | 2 | 23.6000 | 3.65787 | 0.60000 | 2 | 23.6000 | 3.65787 | 0.60000 |
| Chlorotetracycline, Plate | 967.39 | 051.00 | 10 | 2961.05 | 292.950 | 173.156 | 10 | 2961.05 | 292.950 | 173.156 |
| Chlorotetracycline, HPLC | | 051.03 | 10 | 2638.69 | 422.056 | 112.525 | 10 | 2638.69 | 422.056 | 112.525 |
| Method Group 051.XX G/TON | | | 20 | 2799.87 | 394.001 | 142.841 | 20 | 2799.87 | 394.001 | 142.841 |
| Vitamin A, Color | 974.29 | 106.00 | 3 | 256.368 | 38.3179 | 10.6033 | 3 | 256.368 | 38.3179 | 10.6033 |
| Vitamin A, UV | | 106.01 | 1 | 181.800 | 11.3137 | 16.0000 | 1 | 181.800 | 11.3137 | 16.0000 |
| Vitamin A, HPLC | | 106.02 | 18 | 232.578 | 59.5688 | 18.0301 | 16 | 222.068 | 49.7854 | 8.95944 |
| Vitamin A, Misc | | 106.99 | 2 | 229.300 | 5.64388 | 4.00000 | 2 | 229.300 | 5.64388 | 4.00000 |
| Method Group 106.XX KU/LB | | | 24 | 233.163 | 54.6438 | 15.8480 | 22 | 225.573 | 46.8476 | 9.05277 |
| Vitamin D3, HPLC | 982.29 | 108.01 | 2 | 16.0500 | 4.81948 | 2.41000 | 2 | 16.0500 | 4.81948 | 2.41000 |
| Vitamin D3, HPLC | | 108.02 | 5 | 16.8020 | 5.83994 | 1.75200 | 5 | 16.8020 | 5.83994 | 1.75200 |
| Method Group 108.XX KU/LB | | | 7 | 16.5871 | 5.39403 | 1.94000 | 7 | 16.5871 | 5.39403 | 1.94000 |
| Vitamin E, HPLC | | 109.02 | 11 | 476.088 | 41.3020 | 18.3055 | 11 | 476.088 | 41.3020 | 18.3055 |
| Vitamin E, Misc | | 109.99 | 1 | 511.500 | 37.4767 | 53.0000 | 1 | 511.500 | 37.4767 | 53.0000 |
| Method Group 109.XX MG/KG | | | 12 | 479.039 | 41.4553 | 21.1967 | 12 | 479.039 | 41.4553 | 21.1967 |
| Alanine, Post-col Ninhydrin Der | 994.12 | 120.00 | 4 | 0.27625 | 0.03611 | 0.00850 | 4 | 0.27625 | 0.03611 | 0.00850 |
| Method Group 120.XX PCT | | | 4 | 0.27625 | 0.03611 | 0.00850 | 4 | 0.27625 | 0.03611 | 0.00850 |
| Arginine, Post-col Ninhydrin Der | 994.12 | 121.00 | 4 | 0.19800 | 0.04331 | 0.00750 | 4 | 0.19800 | 0.04331 | 0.00750 |
| Method Group 121.XX PCT | | | 4 | 0.19800 | 0.04331 | 0.00750 | 4 | 0.19800 | 0.04331 | 0.00750 |
| Aspartic, Post-col Ninhydrin Der | 994.12 | 122.00 | 4 | 0.30788 | 0.03328 | 0.01125 | 4 | 0.30788 | 0.03328 | 0.01125 |
| Method Group 122.XX PCT | | | 4 | 0.30788 | 0.03328 | 0.01125 | 4 | 0.30788 | 0.03328 | 0.01125 |
| Cysteine/Cystine, PAO Post-col Ninhydrin | 994.12 | 124.00 | 2 | 0.06875 | 0.00150 | 0.00050 | 2 | 0.06875 | 0.00150 | 0.00050 |
| Cysteine/Cystine, PAO Post-col OPA Der | | 124.02 | 1 | 0.06000 | 0.00000 | 0.00000 | 1 | 0.06000 | 0.00000 | 0.00000 |
| Method Group 124.XX PCT | | | 3 | 0.06583 | 0.00467 | 0.00033 | 3 | 0.06583 | 0.00467 | 0.00033 |
| Glutamic, Post-col Ninhydrin Der | 994.12 | 125.00 | 4 | 0.60600 | 0.05208 | 0.01550 | 4 | 0.60600 | 0.05208 | 0.01550 |
| Method Group 125.XX PCT | | | 4 | 0.60600 | 0.05208 | 0.01550 | 4 | 0.60600 | 0.05208 | 0.01550 |
| Glycine, Post-col Ninhydrin Der | 994.12 | 126.00 | 4 | 0.19063 | 0.06020 | 0.00275 | 3 | 0.15833 | 0.00774 | 0.00067 |
| Method Group 126.XX PCT | | | 4 | 0.19063 | 0.06020 | 0.00275 | 3 | 0.15833 | 0.00774 | 0.00067 |
| Histidine, Post-col Ninhydrin Der | 994.12 | 127.00 | 4 | 0.07400 | 0.02699 | 0.00450 | 4 | 0.07400 | 0.02699 | 0.00450 |
| Method Group 127.XX PCT | | | 4 | 0.07400 | 0.02699 | 0.00450 | 4 | 0.07400 | 0.02699 | 0.00450 |
| Isoleucine, Post-col Ninhydrin Der | 994.12 | 128.00 | 4 | 0.12688 | 0.00983 | 0.00475 | 4 | 0.12688 | 0.00983 | 0.00475 |
| Method Group 128.XX PCT | | | 4 | 0.12688 | 0.00983 | 0.00475 | 4 | 0.12688 | 0.00983 | 0.00475 |
| Leucine, Post-col Ninhydrin Der | 994.12 | 129.00 | 4 | 0.35850 | 0.03178 | 0.01250 | 4 | 0.35850 | 0.03178 | 0.01250 |
| Method Group 129.XX PCT | | | 4 | 0.35850 | 0.03178 | 0.01250 | 4 | 0.35850 | 0.03178 | 0.01250 |
| L-Lysine, Post-col Ninhydrin Der | 994.12 | 130.00 | 4 | 0.12675 | 0.01956 | 0.00650 | 4 | 0.12675 | 0.01956 | 0.00650 |

- Pass 1 Results for 170 Labs - - Pass 2 Results for 168 Labs -

| Method | AOAC 18th | Method Code | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups | No. of Labs | Grand Avg. | Std. Dev. | Average Range of Dups |
|---|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Method Group 130.XX PCT | | | 4 | 0.12675 | 0.01956 | 0.00650 | 4 | 0.12675 | 0.01956 | 0.00650 |
| Methionine, PAO Post-col Ninhydrin Der | 994.12 | 131.00 | 2 | 0.06025 | 0.00732 | 0.00550 | 2 | 0.06025 | 0.00732 | 0.00550 |
| Methionine, PAO Post-col OPA Der | | 131.02 | 1 | 0.05000 | 0.00000 | 0.00000 | 1 | 0.05000 | 0.00000 | 0.00000 |
| Method Group 131.XX PCT | | | 3 | 0.05683 | 0.00776 | 0.00367 | 3 | 0.05683 | 0.00776 | 0.00367 |
| Phenylalanine, Post-col Ninhydrin Der | 994.12 | 132.00 | 4 | 0.13800 | 0.07059 | 0.00400 | 4 | 0.13800 | 0.07059 | 0.00400 |
| Method Group 132.XX PCT | | | 4 | 0.13800 | 0.07059 | 0.00400 | 4 | 0.13800 | 0.07059 | 0.00400 |
| Proline, Post-col Ninhydrin Der | 994.12 | 133.00 | 3 | 0.26567 | 0.05624 | 0.02200 | 3 | 0.26567 | 0.05624 | 0.02200 |
| Method Group 133.XX PCT | | | 3 | 0.26567 | 0.05624 | 0.02200 | 3 | 0.26567 | 0.05624 | 0.02200 |
| Serine, Post-col Ninhydrin Der | 994.12 | 134.00 | 4 | 0.17175 | 0.01907 | 0.00800 | 4 | 0.17175 | 0.01907 | 0.00800 |
| Method Group 134.XX PCT | | | 4 | 0.17175 | 0.01907 | 0.00800 | 4 | 0.17175 | 0.01907 | 0.00800 |
| Threonine, Post-col Ninhydrin Der | 994.12 | 135.00 | 4 | 0.14888 | 0.01497 | 0.00625 | 4 | 0.14888 | 0.01497 | 0.00625 |
| Method Group 135.XX PCT | | | 4 | 0.14888 | 0.01497 | 0.00625 | 4 | 0.14888 | 0.01497 | 0.00625 |
| Tryptophan, Alka-Hydrol Rev Phase LC UV | | 136.01 | 1 | 0.03150 | 0.00071 | 0.00100 | 1 | 0.03150 | 0.00071 | 0.00100 |
| Tryptophan, Misc | | 136.99 | 1 | 0.02300 | 0.00283 | 0.00400 | 1 | 0.02300 | 0.00283 | 0.00400 |
| Method Group 136.XX PCT | | | 2 | 0.02725 | 0.00519 | 0.00250 | 2 | 0.02725 | 0.00519 | 0.00250 |
| Tyrosine, Post-col Ninhydrin Der | 994.12 | 137.00 | 2 | 0.85900 | 0.85035 | 0.04000 | 2 | 0.85900 | 0.85035 | 0.04000 |
| Method Group 137.XX PCT | | | 2 | 0.85900 | 0.85035 | 0.04000 | 2 | 0.85900 | 0.85035 | 0.04000 |
| Valine, Post-col Ninhydrin Der | 994.12 | 138.00 | 4 | 0.17388 | 0.03511 | 0.00975 | 4 | 0.17388 | 0.03511 | 0.00975 |
| Method Group 138.XX PCT | | | 4 | 0.17388 | 0.03511 | 0.00975 | 4 | 0.17388 | 0.03511 | 0.00975 |

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|--------|-----|---------------|-------|
| -- | Method 000.03 | -- | -- | Method 001.07 | -- | -- | Method 002.05 | -- | -- | Method 002.06 | -- | -- | Method 003.06 | -- |
| 861 | 0.7750 | .71 | 083 | 3.2500 | -1.04 | 401 | 6.1300 S | 16.96 | 278 | 3.8000 | -.86 | Avg | 2.0386 | |
| -- | Method 001.00 | -- | 366 | 3.2500 | -1.04 | 852 | 4.6000 R | 4.79 | 358 | 3.8150 | -.87 | 682 | 1.9300 | -.32 |
| 560 | 4.5000 | 1.31 | 843 | 3.2700 | -1.05 | 855 | 4.1300 | .68 | 096 | 3.8100 | -.95 | 625 | 1.9200 | -.35 |
| 309 | 4.1950 | .77 | 297 | 2.8700 | -2.06 | 674 | 4.1200 | .60 | 574 | 3.7550 | -1.04 | 297 | 1.6900 | -1.03 |
| 183 | 4.1600 | .71 | -- | Method 001.08 | -- | 856 | 4.0900 | .48 | 616 | 3.7100 | -1.24 | 574 | 1.6350 | -1.24 |
| 169 | 3.7800 | .06 | 865 | 4.7750 | -.71 | 625 | 4.0700 | .21 | 693 | 3.5100 | -2.13 | 169 | 0.6800 s | -4.10 |
| Avg | 3.7536 | | -- | Method 001.99 | -- | Avg | 4.0460 | | 417 | 3.4800 | -2.24 | -- | Method 003.09 | -- |
| 844 | 3.6600 | -.17 | -- | Method 002.06 | -- | 722 | 3.8202 | -1.84 | -- | Method 002.08 | -- | 722 | 2.7433 | 1.28 |
| 861 | 3.1450 | -1.06 | 405 | 4.9900 | 2.17 | -- | Method 002.06 | -- | 610 | 4.1000 | 1.03 | 673 | 2.3500 | .54 |
| 029 | 2.8350 | -1.59 | 096 | 3.8500 | .41 | 098 | 52.400 s | 199.16 | 563 | 4.0000 | .71 | Avg | 2.0533 | |
| -- | Method 001.03 | -- | 722 | 3.8599 | .35 | 843 | 4.6650 A | 2.82 | Avg | 3.7838 | | 183 | 1.5950 | -.82 |
| 688 | 3.3000 | 1.00 | 676 | 3.7955 | .26 | 676 | 4.4350 | 1.78 | 309 | 3.6350 | -.49 | 358 | 1.5250 | -.95 |
| 731 | 3.0300 | .25 | Avg | 3.6462 | | 108 | 4.3600 | 1.50 | 208 | 3.4000 | -1.30 | -- | Method 003.10 | -- |
| Avg | 2.9425 | | 037 | 3.6450 | -.09 | 541 | 4.2300 R | 1.47 | -- | Method 002.10 | -- | 676 | 2.4510 | 1.22 |
| 727 | 2.4975 | -1.20 | 665 | 3.5200 | -.21 | 171 | 4.3500 | 1.42 | 727 | 6.0300 S | 46.51 | 865 | 2.2700 | .91 |
| -- | Method 001.05 | -- | 853 | 3.4350 | -.38 | 553 | 4.2530 R | 1.39 | 688 | 4.1000 | .86 | 208 | 2.0150 | .45 |
| 610 | 3.1450 | .71 | 357 | 2.9100 | -1.19 | 119 | 4.2650 | 1.06 | Avg | 4.0625 | | 119 | 1.7800 | .13 |
| -- | Method 002.00 | -- | 541 | 2.8100 | -1.35 | 037 | 4.2400 | .99 | 861 | 4.0250 | -.87 | Avg | 1.7659 | |
| -- | Method 001.07 | -- | -- | Method 002.00 | -- | 670 | 4.2400 | .96 | -- | Method 002.99 | -- | 693 | 1.7100 | -.13 |
| 045 | 4.2000 | 1.63 | 679 | 4.1050 | .87 | 673 | 4.2000 | .79 | -- | Method 002.99 | -- | 855 | 1.4300 | -.60 |
| 278 | 4.1050 | 1.31 | Avg | 3.9450 | | 866 | 4.2000 | .79 | 643 | 5.0550 S | 441.09 | 609 | 0.7050 | -1.89 |
| 142 | 4.0500 | 1.14 | 199 | 3.7850 | -.86 | 529 | 4.1650 | .65 | 065 | 4.2556 | .71 | -- | Method 003.12 | -- |
| 679 | 4.0500 | 1.14 | -- | Method 002.01 | -- | 610 | 4.1500 | .62 | Avg | 4.2556 | | 670 | 2.4450 | .86 |
| 035 | 4.0050 | 1.01 | 848 | 4.0150 | .20 | 650 | 4.1300 | .54 | -- | Method 003.00 | -- | Avg | 2.1700 | |
| 199 | 3.9350 | .82 | Avg | 4.0075 | | 520 | 4.0850 | .47 | 848 | 2.3700 | .95 | 171 | 1.8950 | -.87 |
| 187 | 3.8750 | .67 | 652 | 4.0000 | -1.21 | 692 | 4.1000 | .38 | 309 | 2.2700 | .85 | -- | Method 003.13 | -- |
| 559 | 3.7350 | .28 | -- | Method 002.02 | -- | 674 | 4.0850 | .32 | 563 | 2.0783 | .49 | 205 | 1.6300 | .92 |
| 049 | 3.7050 | .24 | 169 | 4.6550 | .86 | 609 | 4.0250 | .20 | Avg | 1.7667 | | Avg | 1.5100 | |
| 693 | 3.7100 | .23 | Avg | 4.3775 | | 682 | 4.0400 | .13 | 142 | 1.2500 | -.81 | 553 | 1.3900 | -.81 |
| 098 | 3.6350 | .12 | 297 | 4.1000 | -.87 | 859 | 4.0145 | .10 | 616 | 0.8650 | -1.41 | -- | Method 003.14 | -- |
| Avg | 3.6302 | | -- | Method 002.04 | -- | 142 | 3.9500 | -.31 | -- | Method 003.06 | -- | 108 | 1.6000 | 1.33 |
| 609 | 3.5500 | -.26 | 405 | 4.5100 | .71 | 865 | 3.9420 | -.36 | 852 | 2.7500 R | 2.23 | 853 | 1.5700 | 1.14 |
| 171 | 3.4200 | -.62 | -- | Method 001.00 | -- | 021 | 3.9350 | -.43 | 688 | 2.5500 | 1.52 | 278 | 1.3500 | .26 |
| 616 | 3.3700 | -.72 | 405 | 4.5100 | .71 | 199 | 3.8500 | -.65 | 559 | 3.8450 | -.70 | Avg | 1.3225 | |
| 353 | 3.3350 | -.81 | -- | Method 001.03 | -- | 559 | 3.8450 | -.70 | 205 | 3.8200 | -.79 | -- | | |
| 038 | 3.2850 | -1.03 | 297 | 4.1000 | -.87 | 205 | 3.8200 | -.79 | 199 | 2.1250 | .26 | -- | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|-------|
| -- | Method 003.14 | -- | -- | Method 004.07 | -- | -- | Method 005.00 | -- | -- | Method 005.00 | -- | -- | Method 008.08 | -- |
| 021 | 1.2050 | -.56 | 682 | 25.200 s | 33.51 | 401 | 75.750 | .41 | 855 | 69.250 | -2.63 | 278 | 2.0000 | -.94 |
| 520 | 1.1350 | -.87 | 278 | 3.3000 | 1.63 | 199 | 75.735 | .41 | 856 | 69.055 | -2.72 | -- | Method 008.99 | -- |
| 529 | 1.0750 | -1.14 | 553 | 2.8350 R | 1.22 | 729 | 75.735 | .41 | 550 | 68.340 | -3.05 | 297 | 2.4100 | .87 |
| -- | Method 003.99 | -- | 520 | 2.4450 | .77 | 661 | 75.710 | .40 | 616 | 67.755 s | -3.35 | Avg | 1.5375 | -- |
| 065 | 3.2100 | 1.06 | 610 | 2.5500 | .54 | 171 | 75.705 | .39 | 598 | 65.160 s | -4.54 | 613 | 0.6650 | -.86 |
| 727 | 2.8275 | .75 | Avg | 2.1821 | -- | 029 | 75.445 R | .37 | 119 | 62.545 s | -5.76 | -- | Method 009.07 | -- |
| Avg | 2.2231 | -- | 021 | 2.1500 | -.14 | 541 | 75.185 R | .35 | 035 | 26.660 s | -22.55 | 297 | 15.230 | 1.29 |
| 861 | 1.8200 | -.43 | 643 | 2.0050 | -.29 | 563 | 75.601 | .35 | -- | Method 005.02 | -- | Avg | 8.2667 | -- |
| 613 | 1.0350 | -1.28 | 096 | 1.7000 | -.70 | 865 | 75.550 | .34 | 610 | 76.850 | .71 | 309 | 5.2250 | -.56 |
| -- | Method 004.00 | -- | 183 | 1.1250 | -1.54 | 083 | 75.550 | .32 | -- | Method 005.11 | -- | 693 | 4.3450 | -.73 |
| 309 | 3.2650 | 2.08 | -- | Method 004.99 | -- | 520 | 75.500 | .31 | 665 | 76.205 | .71 | -- | Method 009.09 | -- |
| 208 | 2.2500 | .52 | 856 | 8.2000 S | 10.78 | 853 | 75.520 | .30 | -- | Method 005.99 | -- | 037 | 3.7350 | 1.06 |
| 169 | 2.0550 | .22 | 613 | 3.4800 | .71 | 001 | 75.475 | .28 | 861 | 77.245 | 1.10 | Avg | 3.7175 | -- |
| 563 | 1.9800 | .11 | Avg | 3.4800 | -- | 643 | 75.460 | .27 | 574 | 77.105 | .94 | 278 | 3.7000 | -.61 |
| Avg | 1.9119 | -- | -- | Method 005.00 | -- | 300 | 75.415 | .27 | 727 | 77.120 | .93 | -- | Method 009.99 | -- |
| 855 | 1.9050 | -.13 | 852 | 82.250 A | 3.46 | 021 | 75.400 | .26 | 096 | 76.950 | .70 | 613 | 6.0750 | .71 |
| 559 | 1.3050 | -.93 | 183 | 77.545 | 1.25 | 682 | 75.430 | .26 | 628 | 76.325 | -.50 | -- | Method 010.03 | -- |
| 199 | 1.2800 | -.97 | 178 | 77.250 | 1.13 | 625 | 75.415 | .26 | 652 | 75.700 | -1.02 | 027 | 2.8900 | .71 |
| 171 | 1.2550 | -1.01 | 679 | 76.960 | .98 | 358 | 75.360 | .23 | 536 | 75.525 | -1.30 | Avg | 2.8900 | -- |
| -- | Method 004.01 | -- | 688 | 76.900 | .95 | 026 | 75.180 | .15 | 065 | 75.480 | -1.43 | 843 | 1.2850 S | -6.03 |
| 693 | 2.2450 | -.71 | 722 | 76.757 | .89 | 208 | 74.950 | .12 | 613 | 65.130 S | -15.64 | -- | Method 010.99 | -- |
| -- | Method 004.06 | -- | 695 | 76.690 | .85 | 226 | 74.900 | .10 | 728 | 64.785 S | -16.02 | 417 | 4.3750 s | 4.35 |
| 670 | 3.7100 s | 12.11 | 848 | 76.555 | .80 | 670 | 74.825 | -.02 | 866 | 23.375 s | -72.89 | 866 | 3.5910 | .94 |
| 676 | 1.6490 | 1.66 | 142 | 76.500 | .77 | 027 | 74.800 | -.04 | -- | Method 008.02 | -- | 628 | 3.5500 | .82 |
| 205 | 1.3650 | .71 | 510 | 76.400 | .72 | 194 | 74.615 | -.12 | 309 | 2.3100 | .87 | 065 | 3.5300 | .68 |
| 866 | 1.4550 | .69 | 731 | 76.345 | .70 | 674 | 74.805 | -.16 | Avg | 1.9000 | -- | 621 | 3.4950 | .53 |
| 673 | 1.4500 | .69 | 631 | 76.355 | .70 | 033 | 74.200 | -.31 | 405 | 1.4900 | -.86 | 652 | 3.4000 | .45 |
| Avg | 1.3245 | -- | 038 | 76.175 | .61 | 539 | 74.225 | -.31 | -- | Method 008.08 | -- | 673 | 3.4000 | .11 |
| 722 | 1.3118 | -.09 | 622 | 76.170 | .61 | 609 | 73.815 R | -.54 | 693 | 4.5250 S | 6.79 | Avg | 3.3745 | -- |
| 688 | 1.1500 | -.92 | 152 | 76.150 | .60 | 309 | 73.215 | -.78 | 358 | 2.6600 | 1.12 | 168 | 2.9800 | -1.72 |
| 848 | 1.1150 | -1.06 | 693 | 76.070 | .56 | 650 | 73.025 | -.86 | Avg | 2.3200 | -- | 613 | 0.6650 | -.86 |
| 610 | 1.1000 | -1.14 | 653 | 75.940 | .51 | 689 | 71.835 | -1.42 | 037 | 2.3000 | -.59 | -- | Method 009.07 | -- |
| -- | Method 003.99 | -- | 354 | 75.840 | .46 | 417 | 71.720 | -1.48 | -- | Method 005.02 | -- | 297 | 15.230 | 1.29 |
| 727 | 2.8275 | .75 | 553 | 75.825 | .45 | 160 | 70.950 | -1.84 | 693 | 4.5250 S | 6.79 | Avg | 8.2667 | -- |
| 861 | 1.8200 | -.43 | 559 | 75.810 | .45 | 676 | 69.887 | -2.33 | 358 | 2.6600 | 1.12 | 309 | 5.2250 | -.56 |
| 613 | 1.0350 | -1.28 | 121 | 75.785 | .43 | 169 | 69.310 | -2.60 | Avg | 2.3200 | -- | 693 | 4.3450 | -.73 |
| -- | Method 004.00 | -- | 278 | 75.750 | .42 | -- | -- | -- | 037 | 2.3000 | -.59 | -- | Method 009.09 | -- |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|--------|
| -- | Method 011.01 | -- | -- | Method 011.01 | -- | -- | Method 013.11 | -- | -- | Method 018.01 | -- | -- | Method 019.01 | -- |
| 625 | 5.3600 | 2.35 | 401 | 3.2150 s | -4.34 | 417 | 3.0500 | .96 | 866 | 0.6660 | .71 | 354 | 18.145 | .90 |
| 205 | 4.9350 | 1.27 | Avg | 2.6000 | | Avg | 2.6000 | | | | | 010 | 18.005 R | .87 |
| 098 | 4.8950 | 1.16 | -- | Method 012.00 | -- | 866 | 2.1500 | -.76 | -- | Method 018.02 | -- | 001 | 18.050 | .82 |
| 108 | 4.8200 R | 1.07 | 559 | 0.3000 | -.71 | -- | | | 021 | 1.2000 | 1.07 | 178 | 18.035 | .80 |
| 559 | 4.8000 | .92 | -- | Method 012.01 | -- | -- | Method 013.99 | -- | 567 | 1.1000 | .65 | 646 | 18.035 | .80 |
| 541 | 4.7300 | .74 | 096 | 3.5000 | .87 | 613 | 1.2300 | .71 | 154 | 1.0500 | .49 | 036 | 17.907 | .65 |
| 160 | 4.6450 | .57 | Avg | 2.5125 | | -- | Method 015.00 | -- | 553 | 1.0045 | .26 | 628 | 17.480 R | .48 |
| 539 | 4.6650 | .56 | 676 | 1.5250 | -.86 | -- | | | 629 | 0.9700 | .11 | 205 | 17.700 | .43 |
| 520 | 4.6600 | .56 | -- | Method 012.03 | -- | 560 | 1672.5 | 1.46 | Avg | 0.9456 | | 723 | 17.670 | .40 |
| 623 | 4.5880 | .47 | 297 | 1.6400 | -.71 | 345 | 1641.0 | 1.26 | 508 | 0.8445 | -.44 | 670 | 17.600 | .39 |
| 553 | 4.5000 R | .46 | -- | Method 012.04 | -- | 520 | 1527.5 R | .88 | 011 | 0.7735 R | -.88 | 038 | 17.655 | .38 |
| 119 | 4.6150 | .44 | 096 | 3.5000 | .87 | 616 | 1545.0 | .71 | 668 | 0.4500 | -2.10 | 263 | 17.552 | .27 |
| 354 | 4.6050 | .43 | -- | Method 012.04 | -- | 021 | 1516.5 | .58 | -- | Method 019.00 | -- | 014 | 17.465 | .18 |
| 033 | 4.6100 | .42 | 106 | 2.3500 | .88 | 049 | 1494.9 | .47 | 043 | 19.375 | 2.08 | 653 | 17.435 | .17 |
| 021 | 4.5950 | .38 | Avg | 1.6750 | | Avg | 1424.1 | | 194 | 19.050 | 1.63 | 035 | 17.440 | .16 |
| 358 | 4.5900 | .37 | 278 | 1.0000 | -.86 | 169 | 1385.0 | -.24 | 716 | 18.050 | .34 | 731 | 17.305 | .01 |
| 026 | 4.5750 | .33 | -- | Method 013.02 | -- | 353 | 1335.5 | -.52 | 679 | 18.075 | .31 | Avg | 17.300 | |
| 309 | 4.5600 | .32 | 643 | 4.5500 s | 6.19 | 154 | 1242.5 | -1.06 | 623 | 17.861 | .18 | 563 | 17.160 | -.15 |
| 171 | 4.5650 | .31 | 650 | 3.0700 | 1.31 | 510 | 1210.0 | -1.25 | Avg | 17.853 | | 669 | 17.290 | -.18 |
| 722 | 4.5623 | .31 | 853 | 2.8900 | .89 | 164 | 1198.5 | -1.31 | 175 | 17.800 | -.15 | 013 | 17.000 | -.34 |
| 208 | 4.5200 | .22 | 208 | 2.7950 | .41 | -- | Method 016.02 | -- | 625 | 17.620 | -.32 | 350 | 17.085 | -.34 |
| 670 | 4.5250 | .21 | 861 | 2.7900 | .39 | 553 | 4.4600 | 1.46 | 651 | 17.584 | -.37 | 720 | 16.845 | -.49 |
| 622 | 4.5046 | .15 | Avg | 2.6743 | | 668 | 3.0700 | .25 | 622 | 17.512 | -.46 | 034 | 16.800 | -.53 |
| 226 | 4.4500 | .13 | 553 | 2.5750 | -.33 | 154 | 3.0000 | .13 | 620 | 17.438 | -.60 | 039 | 16.814 | -.58 |
| 682 | 4.4700 | .06 | 856 | 2.3500 | -1.27 | Avg | 2.8881 | | 552 | 17.220 | -.87 | 026 | 16.590 | -.76 |
| Avg | 4.4454 | | 616 | 2.2500 | -1.40 | 567 | 2.7000 | -.19 | 621 | 16.650 | -1.64 | 233 | 16.465 | -.89 |
| 843 | 4.4350 | -.27 | 855 | 2.3750 R | -1.43 | 011 | 1.2103 | -1.50 | 647 | 14.205 s | -4.97 | 505 | 16.440 | -.92 |
| 650 | 4.3650 | -.36 | -- | Method 017.00 | -- | -- | | | 722 | 3.1648 s | -20.00 | 142 | 16.400 | -.97 |
| 855 | 4.2700 | -.46 | 353 | 42.425 s | 11.50 | -- | Method 013.11 | -- | -- | Method 019.01 | -- | 169 | 16.230 | -1.16 |
| 674 | 4.3600 R | -.49 | 345 | 15.190 | 1.97 | 353 | 4.4600 | 1.46 | -- | Method 019.01 | -- | 612 | 16.175 | -1.20 |
| 859 | 4.2255 | -.57 | 560 | 10.845 | .57 | 668 | 3.0700 | .25 | 152 | 22.250 s | 5.29 | 631 | 15.660 | -1.76 |
| 265 | 4.2000 | -.68 | 693 | 9.6050 | .06 | 154 | 3.0000 | .13 | 536 | 19.345 | 2.20 | 305 | 15.325 | -2.11 |
| 643 | 4.1000 | -.89 | Avg | 9.5057 | | 693 | 2.6743 | | 674 | 18.595 | 1.39 | 609 | 15.225 | -2.22 |
| 152 | 4.0000 | -1.15 | 610 | 2.4000 | .37 | 610 | 2.5500 | .64 | 619 | 18.450 | 1.24 | 650 | 13.230 s | -4.35 |
| 574 | 3.7050 | -1.93 | Avg | 2.3775 | | 049 | 8.7050 | -.35 | 675 | 18.455 | 1.23 | 596 | 0.7850 s | -17.65 |
| 848 | 3.6750 | -1.98 | 688 | 2.3000 | -.28 | 510 | 8.4600 | -.38 | 208 | 18.350 | 1.13 | | | |
| 856 | 3.5950 | -2.19 | 096 | 1.8550 | -1.88 | 358 | 7.8850 | -.56 | 019 | 18.075 R | 1.00 | | | |
| 294 | 3.5500 | -2.31 | 021 | 5.8500 | -1.30 | 021 | 5.8500 | -1.30 | 856 | 18.100 | .91 | | | |
| 563 | 2.8947 s | -3.99 | | | | | | | | | | | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|-------|-----|---------------|----------|-----|---------------|--------|-----|---------------|---------|-----|---------------|---------|
| -- | Method 019.03 | -- | -- | Method 019.05 | -- | -- | Method 019.09 | -- | -- | Method 020.01 | -- | -- | Method 021.02 | -- |
| 043 | 18.065 | 1.22 | 144 | 16.800 | -1.29 | 278 | 17.305 | -0.32 | 510 | 28.930 | -0.90 | 668 | 22.360 | -1.44 |
| Avg | 17.267 | | 300 | 17.125 | R -1.55 | 096 | 17.500 | -0.54 | 668 | 26.535 | -1.53 | 011 | 23.334 | R -1.54 |
| 033 | 17.095 | -0.31 | 520 | 17.000 | R -1.81 | 035 | 17.035 | -0.54 | 011 | 27.739 | R -1.75 | 693 | 20.690 | -1.87 |
| 026 | 16.640 | -0.96 | 598 | 16.365 | -1.95 | 567 | 17.035 | -0.63 | -- | Method 020.99 | -- | 345 | 0.0675 | s -7.01 |
| -- | Method 019.05 | -- | 358 | 16.530 | R -2.00 | 011 | 17.183 | -0.66 | Avg | 35.450 | | -- | Method 021.99 | -- |
| 226 | 18.840 | 1.84 | 242 | 15.595 | -3.12 | 187 | 16.620 | -0.98 | 616 | 35.450 | -0.71 | 047 | 28.450 | .71 |
| 661 | 18.700 | 1.62 | 089 | 14.900 | s -4.19 | 693 | 16.600 | -1.06 | 675 | 2.0950 | S -8.90 | 716 | 27.360 | .54 |
| 029 | 18.410 | 1.18 | 405 | 3.9650 | s -20.90 | 202 | 16.550 | -1.14 | -- | Method 021.01 | -- | 610 | 26.350 | .36 |
| 164 | 18.370 | 1.12 | -- | Method 019.08 | -- | 154 | 16.419 | -1.24 | 619 | 49.200 | S 1.58 | Avg | 24.219 | |
| 413 | 18.300 | 1.02 | 673 | 18.500 | 1.54 | 848 | 16.290 | -1.34 | 175 | 42.500 | R .98 | 028 | 14.715 | -1.60 |
| 168 | 18.236 | .96 | Avg | 17.161 | | 037 | 16.200 | -1.47 | 612 | 42.000 | .91 | -- | Method 022.01 | -- |
| 083 | 18.250 | .94 | 729 | 17.095 | -0.24 | 357 | 15.515 | -2.17 | 689 | 39.850 | .70 | 043 | 1297.0 | s 13.55 |
| 553 | 18.050 | .74 | 590 | 16.580 | -0.67 | -- | Method 019.99 | -- | 563 | 33.285 | .11 | 536 | 1100.0 | s 8.78 |
| 265 | 18.085 | .70 | 848 | 16.470 | -0.79 | 727 | 18.004 | R 2.50 | 628 | 29.960 | -0.32 | 612 | 843.00 | 1.72 |
| 074 | 17.990 | .54 | -- | Method 019.09 | -- | 676 | 17.683 | 1.70 | 675 | 26.735 | -0.53 | 013 | 828.50 | 1.34 |
| 682 | 17.970 | .51 | 629 | 19.250 | 1.83 | 047 | 16.850 | 1.05 | 164 | 23.500 | -0.83 | 689 | 830.40 | 1.30 |
| 171 | 17.900 | .50 | 042 | 19.200 | 1.79 | 665 | 16.350 | .23 | 208 | 15.350 | -1.60 | 014 | 807.50 | R 1.18 |
| 511 | 17.930 | .45 | 616 | 18.900 | 1.46 | Avg | 16.183 | | 175 | 811.50 | .82 | 723 | 815.50 | .90 |
| 297 | 17.845 | .36 | 190 | 18.805 | 1.37 | 613 | 15.860 | -0.37 | 208 | 809.50 | .74 | 175 | 811.50 | .82 |
| 294 | 17.850 | .32 | 726 | 18.654 | 1.19 | 692 | 15.850 | -0.38 | 510 | 36.500 | 2.10 | 208 | 809.50 | .74 |
| 610 | 17.740 | .32 | 353 | 18.510 | 1.07 | 121 | 15.689 | -0.59 | 021 | 33.100 | 1.26 | 563 | 800.20 | .50 |
| 004 | 17.826 | .29 | 186 | 18.350 | .91 | 852 | 15.000 | -1.36 | 029 | 31.825 | R 1.05 | 590 | 800.00 | .50 |
| 208 | 17.663 | .16 | 045 | 18.250 | .76 | -- | Method 020.00 | -- | 038 | 787.00 | .33 | 505 | 796.50 | .44 |
| 229 | 17.695 | .14 | 512 | 17.935 | R .75 | 563 | 37.645 | .86 | 035 | 790.50 | .25 | 038 | 787.00 | .33 |
| 148 | 17.675 | .09 | 345 | 18.070 | .58 | Avg | 37.223 | | 106 | 31.800 | .92 | 035 | 790.50 | .25 |
| Avg | 17.639 | | 309 | 18.005 | .51 | 164 | 36.800 | -0.87 | 027 | 30.708 | .66 | 350 | 790.00 | .25 |
| 049 | 17.505 | -0.22 | 027 | 17.895 | .38 | -- | Method 020.01 | -- | 560 | 29.200 | .30 | 731 | 787.00 | .24 |
| 425 | 17.475 | -0.26 | 199 | 17.650 | .30 | -- | Method 020.01 | -- | 616 | 29.300 | .30 | 628 | 784.50 | .13 |
| 003 | 17.450 | -0.30 | 366 | 17.800 | .30 | 021 | 39.700 | 1.98 | 567 | 28.950 | .21 | Avg | 781.15 | |
| 026 | 17.545 | -0.30 | 560 | 17.700 | .17 | 560 | 35.900 | .96 | 154 | 28.450 | .08 | 178 | 778.00 | -0.11 |
| 100 | 17.400 | -0.39 | 017 | 17.660 | .13 | 096 | 33.500 | .34 | Avg | 28.117 | | 653 | 775.35 | -0.20 |
| 865 | 17.405 | -0.41 | 160 | 17.606 | .08 | 567 | 32.700 | .13 | 038 | 27.350 | -0.27 | 675 | 776.70 | -0.34 |
| 685 | 17.370 | -0.41 | 106 | 17.550 | .05 | 860 | 26.400 | -0.43 | 860 | 26.400 | -0.43 | 674 | 762.95 | -0.52 |
| 550 | 17.119 | -0.80 | 510 | 17.565 | .03 | Avg | 32.302 | | 171 | 25.850 | -0.59 | 669 | 771.97 | -0.59 |
| 508 | 17.096 | -0.83 | Avg | 17.539 | | 629 | 32.050 | -0.07 | 508 | 25.680 | -0.62 | 619 | 764.00 | -0.67 |
| 860 | 17.050 | -0.90 | 038 | 17.365 | -0.20 | 154 | 30.750 | -0.42 | 629 | 25.350 | -0.69 | 305 | 752.00 | -0.77 |
| 695 | 17.025 | -0.94 | 668 | 17.395 | -0.28 | 171 | 30.650 | -0.44 | 169 | 24.200 | -0.98 | 019 | 739.00 | -1.15 |
| 098 | 16.850 | -1.21 | -- | Method 019.08 | -- | -- | Method 019.99 | -- | -- | Method 020.99 | -- | -- | Method 021.99 | -- |

* 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 022.01 | -- | -- | Method 022.05 | -- | -- | Method 022.99 | -- | -- | Method 025.03 | -- | -- | Method 025.05 | -- |
| 354 | 736.25 | -1.18 | 413 | 869.50 | 1.60 | 866 | 778.79 | .94 | 083 | 5565.0 | 1.73 | 169 | 4935.0 | .96 |
| 716 | 729.00 | -1.38 | 560 | 857.50 | 1.37 | 856 | 762.50 | .64 | 265 | 5419.9 | R | 629 | 4905.0 | .93 |
| 631 | 669.47 | -2.93 | 027 | 853.87 | 1.31 | 692 | 749.00 | .45 | 004 | 5345.5 | 1.41 | 560 | 4746.0 | R |
| 001 | 610.00 | s -4.54 | 512 | 846.40 | R | 047 | 743.45 | .32 | 026 | 5205.0 | 1.20 | 199 | 4797.5 | .83 |
| -- | Method 022.03 | -- | 011 | 844.00 | 1.13 | Avg | 724.63 | | 074 | 5174.0 | 1.16 | 035 | 4776.0 | .81 |
| 685 | 1305.7 | s 10.67 | 106 | 842.50 | 1.11 | 121 | 702.55 | -.45 | 511 | 5079.0 | 1.02 | 616 | 4620.0 | .67 |
| 083 | 901.50 | 2.31 | 160 | 841.50 | 1.09 | 613 | 611.50 | -1.92 | 695 | 5075.2 | 1.01 | 345 | 4568.2 | .62 |
| 865 | 865.80 | 1.54 | 353 | 838.00 | 1.06 | 846 | 286.02 | S -7.45 | 553 | 4985.0 | .89 | 106 | 4490.0 | .55 |
| 226 | 851.00 | 1.25 | 345 | 827.69 | .85 | -- | Method 024.01 | -- | 550 | 4844.9 | .67 | 510 | 4470.0 | .53 |
| 164 | 846.50 | 1.14 | 096 | 815.00 | .67 | 208 | 63.000 | 1.22 | 148 | 4777.5 | .57 | 567 | 4258.0 | .34 |
| 297 | 832.00 | .85 | 045 | 809.00 | .51 | Avg | 62.950 | | 208 | 4734.5 | .51 | 045 | 4105.0 | .20 |
| 553 | 827.50 | .85 | 021 | 804.50 | .47 | 169 | 62.900 | -.03 | 682 | 4725.4 | .50 | 366 | 4100.0 | .20 |
| 229 | 831.00 | .82 | 693 | 805.50 | .45 | -- | Method 024.03 | -- | 100 | 4643.5 | .38 | 693 | 3921.0 | .07 |
| 049 | 796.55 | .71 | 035 | 804.50 | .44 | -- | Method 024.03 | -- | 029 | 4488.0 | .33 | Avg | 3886.0 | |
| 265 | 819.72 | .69 | 017 | 802.00 | .43 | 171 | 31.500 | .71 | 865 | 4485.0 | .30 | 154 | 3839.0 | -.07 |
| 026 | 815.00 | .65 | 190 | 801.74 | .42 | -- | Method 024.99 | -- | 164 | 4565.0 | .29 | 096 | 3750.0 | -.13 |
| 682 | 809.40 | .37 | 860 | 797.10 | .30 | -- | Method 024.99 | -- | 242 | 4409.0 | .11 | 668 | 3550.7 | -.31 |
| 098 | 794.50 | .35 | 199 | 794.75 | .26 | 675 | 35.890 | .71 | Avg | 4388.9 | | 413 | 3485.0 | -.37 |
| 074 | 805.00 | .28 | 726 | 791.50 | .20 | -- | Method 025.01 | -- | 171 | 4240.0 | -.25 | 037 | 3518.0 | R |
| 029 | 802.70 | .23 | 629 | 790.00 | .20 | -- | Method 025.01 | -- | 049 | 4293.5 | -.25 | 726 | 3240.0 | -.59 |
| Avg | 791.67 | | 278 | 783.10 | .07 | 689 | 5782.0 | 1.22 | 358 | 4261.3 | -.26 | 187 | 3211.8 | -.61 |
| 004 | 780.00 | -.24 | Avg | 780.09 | | 675 | 5432.4 | .95 | 297 | 4274.0 | -.30 | 278 | 3099.0 | -.72 |
| 598 | 772.50 | -.40 | 042 | 772.50 | -.14 | 669 | 5397.0 | .92 | 300 | 4131.5 | -.39 | 190 | 2903.2 | -.90 |
| 610 | 772.00 | -.46 | 202 | 768.50 | -.29 | 628 | 5046.0 | .64 | 144 | 4102.2 | -.44 | 202 | 2436.5 | -1.32 |
| 208 | 764.50 | -.58 | 366 | 754.50 | -.50 | 208 | 4967.5 | .58 | 520 | 4121.5 | -.51 | 294 | 2368.5 | -1.38 |
| 695 | 760.99 | -.64 | 510 | 751.50 | -.51 | 035 | 4750.5 | .41 | 508 | 3819.6 | -.85 | 309 | 2265.0 | -1.48 |
| 148 | 759.15 | -.68 | 186 | 746.00 | -.68 | 731 | 4701.5 | .38 | 003 | 3755.0 | -.94 | 028 | 790.00 | -2.82 |
| 100 | 758.00 | -.71 | 294 | 739.14 | -.73 | 350 | 4454.0 | .18 | 598 | 3733.5 | -.97 | 160 | 0.3224 | s -3.54 |
| 550 | 763.31 | -.72 | 169 | 736.00 | -.79 | 354 | 4251.5 | .03 | 226 | 3706.5 | -1.01 | -- | Method 025.99 | -- |
| 358 | 750.03 | -1.01 | 357 | 730.00 | -.89 | Avg | 4228.5 | | 098 | 3434.0 | -1.42 | 613 | 14640 | S 6.18 |
| 511 | 735.50 | -1.17 | 187 | 727.08 | -.94 | 038 | 4136.0 | -.08 | 610 | 3123.0 | -1.87 | 121 | 4491.3 | .87 |
| 520 | 759.00 | R -1.31 | 668 | 712.70 | -1.21 | 670 | 4094.5 | -.11 | 229 | 2570.0 | -2.68 | Avg | 2842.4 | |
| 242 | 723.00 | -1.42 | 309 | 711.95 | -1.21 | 175 | 3115.0 | R | 405 | 997.50 | s -5.00 | 692 | 1193.5 | -.86 |
| 508 | 725.84 | -1.48 | 037 | 708.00 | -1.29 | 505 | 2730.0 | -1.17 | -- | Method 025.05 | -- | -- | Method 026.00 | -- |
| 171 | 712.00 | -1.66 | 616 | 706.50 | R -1.51 | 305 | 2059.5 | -1.70 | 038 | 5790.0 | 1.74 | -- | Method 026.00 | -- |
| 003 | 571.00 | s -4.58 | 154 | 650.50 | -2.30 | 014 | 1396.0 | -2.22 | 042 | 5409.0 | R | 668 | 3.4450 | 1.61 |
| 405 | 512.50 | s -5.79 | 567 | 641.50 | -2.46 | 856 | 210.00 | S -3.15 | 353 | 5231.0 | 1.23 | 508 | 2.2240 | .72 |
| | | | 038 | 429.14 | s -9.72 | 563 | 44.850 | S -3.28 | 021 | 5016.5 | 1.03 | Avg | 1.8192 | |
| | | | 028 | 82.500 | s -12.38 | | | | | | | | | |

* 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 026.00 | -- | -- | Method 027.01 | -- | -- | Method 027.03 | -- | -- | Method 027.99 | -- | -- | Method 028.03 | -- |
| 154 | 1.5000 | -.30 | 674 | 0.9050 s | -4.15 | 520 | 1.1000 R | -1.67 | 047 | 1.2500 | 1.28 | 550 | 2659.4 s | 3.45 |
| 866 | 1.0872 | -.69 | 650 | 0.1030 s | -16.64 | 405 | 1.0100 | -2.17 | 856 | 1.2170 | .94 | 860 | 2392.5 | 1.67 |
| 610 | 0.8400 | -.92 | 294 | 0.9650 | -2.81 | 294 | 0.9650 | -2.81 | Avg | 1.1050 | | 226 | 2339.5 | 1.31 |
| -- | Method 026.99 | -- | -- | Method 027.03 | -- | -- | Method 027.05 | -- | 692 | 1.0500 | -.46 | 297 | 2282.5 | .99 |
| 553 | 2.6050 | .86 | 865 | 1.4640 s | 4.32 | -- | Method 027.05 | -- | 121 | 1.0480 | -.52 | 229 | 2290.0 | .98 |
| Avg | 1.7294 | | 550 | 1.3570 | 2.77 | 353 | 1.3400 | 2.29 | 613 | 0.9600 | -1.22 | 265 | 2277.0 | .98 |
| 011 | 0.8538 | -.87 | 003 | 1.2800 | 1.68 | 345 | 1.2950 | 1.70 | -- | Method 028.01 | -- | 083 | 2269.5 | .85 |
| -- | Method 027.01 | -- | 144 | 1.2150 R | 1.19 | 726 | 1.2745 | 1.45 | 013 | 2400.0 | 1.84 | 553 | 2255.0 | .81 |
| 014 | 1.2815 R | 2.10 | 682 | 1.2400 | 1.10 | 186 | 1.2600 | 1.33 | 035 | 2383.5 | 1.72 | 098 | 2257.0 | .78 |
| 590 | 1.3000 | 2.00 | 226 | 1.2350 | 1.04 | 560 | 1.2450 | 1.10 | 208 | 2325.0 | 1.29 | 208 | 2258.5 | .78 |
| 723 | 1.2600 | 1.39 | 508 | 1.2099 | .84 | 512 | 1.2050 | .71 | 208 | 2325.0 | 1.29 | 029 | 2239.0 | .64 |
| 305 | 1.2450 | 1.21 | 098 | 1.2150 | .75 | 199 | 1.2080 | .67 | 675 | 2316.8 | 1.23 | 164 | 2230.0 | .58 |
| 036 | 1.2435 | 1.12 | 265 | 1.2081 | .69 | 278 | 1.1950 | .51 | 563 | 2309.0 | 1.17 | 100 | 2224.5 | .55 |
| 013 | 1.2350 | 1.02 | 297 | 1.2100 | .68 | 160 | 1.1909 | .46 | 619 | 2190.5 R | .91 | 026 | 2189.5 | .32 |
| 536 | 1.2350 | .99 | 610 | 1.2000 | .55 | 616 | 1.1800 | .35 | 669 | 2201.8 | .41 | 074 | 2186.0 | .29 |
| 609 | 1.2350 | .99 | 171 | 1.1750 | .53 | 042 | 1.1650 | .33 | 038 | 2200.0 | .37 | 148 | 2180.0 | .26 |
| 208 | 1.2190 | .74 | 029 | 1.1970 | .50 | 202 | 1.1550 | .30 | 689 | 2192.5 | .31 | 003 | 2151.5 | .10 |
| 628 | 1.2050 | .53 | 026 | 1.1900 | .42 | 190 | 1.1750 | .27 | 354 | 2186.5 | .27 | 682 | 2143.0 | .01 |
| 142 | 1.2000 | .44 | 074 | 1.1850 | .33 | 021 | 1.1650 | .23 | 723 | 2185.5 | .26 | Avg | 2142.1 | |
| 263 | 1.1930 | .33 | 083 | 1.1750 | .28 | 187 | 1.1700 | .21 | 731 | 2168.0 | .23 | 242 | 2137.0 | -.07 |
| 612 | 1.1850 | .22 | 208 | 1.1745 | .25 | Avg | 1.1527 | | 612 | 2174.0 | .18 | 004 | 2126.5 | -.15 |
| Avg | 1.1715 | | 300 | 1.1630 | .09 | 154 | 1.1461 | -.12 | 590 | 2167.5 | .13 | 610 | 2054.5 | -.59 |
| 350 | 1.1600 | -.18 | 100 | 1.1650 | .08 | 035 | 1.1400 | -.15 | 505 | 2162.5 | .11 | 685 | 2035.7 | -.71 |
| 619 | 1.1700 | -.31 | Avg | 1.1623 | | 106 | 1.1350 | -.22 | Avg | 2150.2 | | 049 | 2035.8 | -.72 |
| 669 | 1.1550 | -.35 | 860 | 1.1600 | -.03 | 309 | 1.1425 | -.37 | 019 | 2140.0 | -.11 | 358 | 2097.0 R | -.73 |
| 038 | 1.1450 | -.42 | 004 | 1.1530 | -.14 | 038 | 1.1200 | -.41 | 674 | 2117.9 | -.26 | 598 | 2029.5 | -.75 |
| 001 | 1.1390 | -.51 | 148 | 1.1470 | -.22 | 629 | 1.1150 | -.45 | 178 | 2113.5 | -.27 | 511 | 2027.0 | -.77 |
| 035 | 1.1350 | -.57 | 164 | 1.1500 | -.23 | 017 | 1.1100 | -.56 | 043 | 2122.0 | -.46 | 171 | 2000.0 | -.97 |
| 175 | 1.1300 | -.67 | 511 | 1.1450 | -.26 | 096 | 1.1000 | -.63 | 350 | 2053.0 | -.71 | 695 | 1981.8 | -1.08 |
| 169 | 1.1250 | -.73 | 685 | 1.1400 | -.32 | 510 | 1.1000 | -.63 | 536 | 2038.0 | -.87 | 144 | 1899.5 | -1.62 |
| 563 | 1.1178 | -.84 | 553 | 1.1550 | -.37 | 045 | 1.1000 | -.64 | 001 | 2026.0 | -1.06 | 520 | 1917.5 R | -1.68 |
| 675 | 1.1150 | -.88 | 413 | 1.1350 | -.53 | 037 | 1.1250 R | -.84 | 014 | 2017.0 | -1.11 | 168 | 1876.0 | -1.77 |
| 646 | 1.1600 R | -.95 | 358 | 1.1250 | -.54 | 357 | 1.0750 | -.93 | 175 | 1965.0 | -1.37 | 508 | 1751.7 | -2.60 |
| 731 | 1.1125 | -1.01 | 425 | 1.1250 | -.54 | 366 | 1.0650 | -1.05 | 716 | 1915.0 | -1.73 | 405 | 955.50 s | -7.89 |
| 505 | 1.0700 | -1.59 | 242 | 1.1200 | -.62 | 011 | 1.0795 R | -1.13 | 646 | 1898.4 R | -1.96 | -- | Method 028.05 | -- |
| 631 | 1.0700 | -1.61 | 049 | 1.1100 | -.80 | 693 | 1.0500 | -1.23 | 305 | 1874.5 | -2.03 | 190 | 2540.1 | 1.85 |
| 019 | 1.0600 | -1.74 | 598 | 1.1035 | -.84 | 864 | 0.9875 | -1.99 | 567 | 0.9700 | -2.19 | 345 | 2517.2 | 1.73 |
| | | | 695 | 1.1015 | -.87 | 567 | 0.9700 | -2.19 | 668 | 0.8200 s | -3.97 | 106 | 2400.0 | 1.17 |
| | | | 229 | 1.0950 | -.96 | 668 | 0.8200 s | -3.97 | | | | | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|--------|-----|---------------|--------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|
| -- | Method 028.05 | -- | -- | Method 028.99 | -- | -- | Method 031.01 | -- | -- | Method 031.05 | -- | -- | Method 031.05 | -- |
| 629 | 2380.0 | 1.07 | 692 | 1987.5 | .08 | 354 | 3.0550 | -.08 | 003 | 3.3950 | 1.64 | 042 | 3.0500 | -.14 |
| 726 | 2375.0 | 1.04 | Avg | 1979.8 | | 035 | 3.0400 | -.19 | 358 | 3.3600 R | 1.60 | 187 | 3.0300 | -.25 |
| 045 | 2365.0 | .99 | 613 | 1575.5 | -1.74 | 670 | 3.0400 | -.20 | 300 | 3.1000 R | 1.42 | 049 | 3.0450 | -.25 |
| 512 | 2344.5 | .93 | 846 | 764.00 S | -5.25 | 563 | 3.0402 | -.26 | 004 | 3.3505 | 1.40 | 695 | 3.0500 | -.25 |
| 160 | 2316.5 | .76 | 653 | 1.2250 S | -8.54 | 665 | 3.0350 | -.26 | 512 | 3.3230 | 1.35 | 278 | 3.0250 | -.27 |
| 560 | 2283.5 | .59 | -- | Method 029.00 | -- | 675 | 3.0350 | -.26 | 560 | 3.3200 | 1.25 | 038 | 3.0450 | -.29 |
| 413 | 2270.0 | .55 | 021 | 0.0215 | .71 | 142 | 3.0500 | -.42 | 353 | 3.3100 | 1.20 | 693 | 3.0350 | -.32 |
| 096 | 2200.0 R | .52 | 021 | 0.0215 | .71 | 609 | 3.0100 | -.46 | 726 | 3.3000 | 1.14 | 610 | 3.0100 | -.35 |
| 038 | 2220.0 R | .48 | -- | Method 031.01 | -- | 653 | 3.0455 | -.49 | 508 | 3.2338 R | 1.11 | 144 | 3.0100 | -.38 |
| 011 | 2259.3 | .48 | -- | Method 031.01 | -- | 263 | 2.9872 | -.61 | 074 | 3.2900 | 1.10 | 017 | 3.0050 | -.40 |
| 628 | 2251.0 | .44 | 722 | 17.314 s | 114.97 | 674 | 2.9300 | -1.09 | 265 | 3.2635 | .98 | 035 | 3.0000 | -.40 |
| 017 | 2240.0 | .39 | 621 | 4.3050 s | 10.02 | 716 | 2.9350 R | -1.24 | 168 | 3.2650 | .97 | 100 | 2.9950 | -.43 |
| 693 | 2208.5 | .37 | 646 | 3.8350 s | 6.23 | 305 | 2.8650 | -1.64 | 865 | 3.2625 | .96 | 425 | 2.9900 | -.45 |
| 021 | 2225.5 | .31 | 723 | 3.7450 s | 5.50 | 039 | 2.8520 | -1.71 | 226 | 3.2550 | .93 | 045 | 2.9800 | -.51 |
| 353 | 2195.0 | .21 | 651 | 3.6345 s | 4.61 | 622 | 2.8379 | -1.83 | 096 | 3.2500 | .92 | 668 | 2.9650 | -.59 |
| 035 | 2186.0 | .12 | 019 | 3.2550 R | 1.94 | 848 | 2.8050 | -2.08 | 160 | 3.2444 | .88 | 164 | 2.9300 | -.76 |
| Avg | 2161.6 | | 596 | 3.2800 R | 1.89 | 194 | 2.7450 | -2.57 | 027 | 3.2455 | .87 | 510 | 2.9300 | -.76 |
| 169 | 2150.0 | -.06 | 731 | 3.2950 | 1.87 | 647 | 2.0050 s | -8.57 | 345 | 3.2400 | .84 | 199 | 2.9275 | -.78 |
| 187 | 2138.0 | -.13 | 625 | 3.2400 | 1.43 | -- | Method 031.02 | -- | 029 | 3.2375 | .82 | 242 | 2.9250 | -.81 |
| 042 | 2135.0 | -.14 | 619 | 3.2350 | 1.39 | -- | Method 031.02 | -- | 148 | 3.2350 | .81 | 366 | 2.8750 | -1.04 |
| 366 | 2095.0 | -.32 | 669 | 3.2050 | 1.18 | 505 | 3.1600 | 1.61 | 309 | 3.1960 | .67 | 520 | 3.0000 R | -1.10 |
| 202 | 2101.0 | -.34 | 018 | 3.1750 | .91 | 043 | 3.0950 | .36 | 190 | 3.2000 | .63 | 616 | 2.8400 | -1.24 |
| 278 | 2093.0 | -.37 | 511 | 3.1650 | .83 | Avg | 3.0762 | | 297 | 3.1900 | .60 | 848 | 2.8100 | -1.38 |
| 510 | 2075.0 | -.43 | 152 | 3.1550 | .74 | 011 | 3.0539 | -.42 | 202 | 3.1250 | .59 | 021 | 2.8050 | -1.47 |
| 616 | 2070.0 | -.45 | 178 | 3.1300 | .67 | 013 | 3.0450 | -.59 | 037 | 3.1800 | .59 | 154 | 2.7935 | -1.49 |
| 294 | 2051.3 | -.54 | 038 | 3.1200 | .67 | 014 | 3.0270 | -1.12 | 208 | 3.1835 | .55 | 357 | 2.7700 | -1.59 |
| 037 | 1984.5 | -.86 | 620 | 3.1409 | .63 | -- | Method 031.03 | -- | 682 | 3.1700 | .47 | 121 | 2.7585 | -1.69 |
| 567 | 1976.0 | -.91 | 001 | 3.1360 | .59 | -- | Method 031.03 | -- | 413 | 3.1350 | .41 | 567 | 2.6450 | -2.23 |
| 186 | 1972.0 | -.92 | 034 | 3.1300 | .54 | 504 | 3.1450 | 1.07 | 553 | 3.1500 | .37 | 294 | 2.5650 | -2.64 |
| 357 | 1907.0 | -1.24 | 233 | 3.1250 | .50 | 208 | 3.1350 | .88 | 628 | 3.1350 | .30 | 089 | 2.5550 | -2.69 |
| 154 | 1907.5 | -1.25 | 026 | 3.1250 | .50 | 026 | 3.1150 | .19 | 598 | 3.1275 | .28 | 864 | 2.5160 S | -2.96 |
| 309 | 1662.5 | -2.44 | 679 | 3.1250 | .50 | Avg | 3.1120 | | 860 | 3.1300 | .27 | 405 | 2.0800 s | -5.13 |
| 668 | 1657.5 | -2.45 | 728 | 3.0750 | .45 | 043 | 3.1000 | -.50 | 083 | 3.1050 | .23 | 028 | 0.2099 s | -14.75 |
| 028 | 1.0100 s | -10.51 | 205 | 3.1150 | .43 | 033 | 3.0650 | -1.51 | 685 | 3.1000 | .19 | -- | Method 031.06 | -- |
| -- | Method 028.99 | -- | 169 | 3.0800 | .28 | -- | Method 031.05 | -- | 106 | 3.1100 | .17 | -- | Method 031.06 | -- |
| 856 | 2200.0 | .95 | 175 | 3.0700 | .25 | -- | Method 031.05 | -- | 098 | 3.0950 | .12 | 536 | 2.9500 | -.71 |
| 047 | 2127.5 | .65 | 036 | 3.0650 | .02 | 661 | 3.8300 s | 3.88 | Avg | 3.0778 | | | | |
| 121 | 2008.7 | .35 | Avg | 3.0632 | | 629 | 3.7950 S | 3.69 | 229 | 3.0700 | -.07 | | | |
| | | | 350 | 3.0600 | -.03 | 171 | 3.4350 | 1.84 | 550 | 3.0690 | -.09 | | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|--------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|--------|
| -- | Method 031.99 | -- | -- | Method 032.01 | -- | -- | Method 032.05 | -- | -- | Method 032.05 | -- | -- | Method 033.01 | -- |
| 631 | 4.2150 S | 7.19 | 628 | 0.2800 | -0.77 | 726 | 0.3511 | .46 | 560 | 0.2595 R | -1.28 | 205 | 25.450 | .96 |
| 729 | 3.9850 S | 5.76 | 612 | 0.2755 | -0.83 | 695 | 0.3500 | .39 | 510 | 0.2500 | -1.31 | 202 | 25.320 | .94 |
| 673 | 3.3500 | 1.77 | 650 | 0.2750 | -0.83 | 187 | 0.3450 | .28 | 229 | 0.2200 | -1.80 | 098 | 25.400 | .93 |
| 590 | 3.1400 | .42 | 013 | 0.2645 | -0.94 | 682 | 0.3400 | .19 | -- | Method 032.99 | -- | 178 | 25.400 | .86 |
| 676 | 3.1170 | .28 | 505 | 0.2550 | -1.05 | 027 | 0.3360 | .14 | 653 | 0.3420 | 1.35 | 039 | 25.345 | .69 |
| Avg | 3.0739 | | 035 | 0.2350 | -1.27 | 357 | 0.3300 | .02 | 074 | 0.3050 | .31 | 559 | 25.315 | .62 |
| 006 | 3.0550 | -0.12 | -- | Method 032.02 | -- | Avg | 0.3286 | | 294 | 0.3200 | | 175 | 25.300 | .57 |
| 852 | 3.0500 | -0.35 | 536 | 0.4850 | 1.82 | 106 | 0.3160 | -0.23 | 692 | 0.2800 | -0.44 | 194 | 25.250 | .49 |
| 613 | 2.9800 | -0.70 | 665 | 0.4300 R | 1.22 | 190 | 0.3150 | -0.24 | 613 | 0.2550 | -1.17 | 226 | 25.235 | .46 |
| 692 | 2.8250 | -1.58 | 169 | 0.3300 | .12 | 038 | 0.3145 | -0.26 | -- | Method 033.00 | -- | 001 | 25.090 | .32 |
| 047 | 2.8000 R | -2.14 | Avg | 0.3300 | | 186 | 0.3125 | -0.27 | 297 | 28.792 s | 5.30 | 199 | 24.990 | .04 |
| 552 | 1.5950 S | -9.33 | 014 | 0.2950 | -0.41 | 096 | 0.3050 | -0.40 | 596 | 28.350 s | 4.78 | Avg | 24.987 | |
| 856 | 0.3000 s | -17.48 | 590 | 0.2800 | -0.59 | 508 | 0.3058 | -0.40 | 675 | 25.370 | 1.16 | 610 | 24.950 | -0.11 |
| -- | Method 032.00 | -- | 716 | 0.2600 | -0.82 | 199 | 0.3043 | -0.40 | 675 | 25.370 | 1.16 | 036 | 24.921 | -0.12 |
| 011 | 0.3257 | .71 | -- | Method 032.05 | -- | 026 | 0.3025 | -0.45 | 567 | 25.265 | 1.10 | 278 | 24.840 | -0.27 |
| -- | Method 032.01 | -- | 028 | 3.1150 s | 46.25 | 366 | 0.3050 | -0.46 | 366 | 25.250 | 1.01 | 019 | 24.640 | -0.67 |
| 354 | 1.1100 s | 8.33 | 550 | 1.0350 s | 11.88 | 413 | 0.3000 | -0.48 | 695 | 25.195 | .96 | 029 | 24.605 | -0.70 |
| 674 | 1.0600 s | 7.79 | 083 | 1.0100 s | 11.32 | 567 | 0.3000 | -0.48 | 045 | 25.050 | .77 | 026 | 24.450 | -0.98 |
| 856 | 0.8950 s | 5.97 | 265 | 0.9745 s | 10.72 | 668 | 0.3000 | -0.48 | 309 | 24.905 | .58 | 096 | 24.400 | -1.07 |
| 563 | 0.6239 | 3.00 | 242 | 0.6600 s | 5.50 | 160 | 0.2987 | -0.50 | 693 | 24.455 | .57 | 650 | 24.390 | -1.09 |
| 305 | 0.4750 | 1.39 | 003 | 0.6350 A | 5.09 | 148 | 0.2981 | -0.51 | 034 | 24.780 | .42 | 011 | 24.389 | -1.10 |
| 675 | 0.4750 | 1.38 | 598 | 0.6307 s | 5.07 | 029 | 0.3015 | -0.53 | 160 | 24.700 | .33 | 590 | 24.400 | -1.20 |
| 019 | 0.4500 R | 1.18 | 405 | 0.5800 A | 4.19 | 297 | 0.2950 | -0.56 | 013 | 24.470 | .06 | 164 | 24.240 | -1.37 |
| 609 | 0.4400 | .99 | 685 | 0.5050 | 2.93 | 693 | 0.2960 | -0.59 | Avg | 24.431 | | 004 | 24.360 R | -1.55 |
| 098 | 0.4100 | .69 | 520 | 0.4550 | 2.11 | 045 | 0.2915 | -0.62 | 716 | 24.275 | -0.19 | 510 | 23.910 | -2.02 |
| 004 | 0.3930 | .47 | 144 | 0.4550 | 2.11 | 553 | 0.2920 | -0.63 | 679 | 24.030 | -0.49 | 106 | 22.405 s | -4.72 |
| 205 | 0.3875 | .43 | 629 | 0.4450 | 1.93 | 121 | 0.2905 | -0.64 | 511 | 23.965 | -0.57 | 028 | 0.3100 s | -45.10 |
| 720 | 0.3650 | .23 | 864 | 0.4420 X | 1.89 | 017 | 0.2900 | -0.64 | 017 | 24.095 | -0.69 | -- | Method 033.03 | -- |
| Avg | 0.3506 | | 049 | 0.4250 R | 1.84 | 425 | 0.2900 | -0.64 | 353 | 23.845 | -0.77 | 190 | 35.715 S | 5.78 |
| 142 | 0.3450 | -0.08 | 353 | 0.4350 | 1.77 | 616 | 0.2900 | -0.64 | 208 | 23.500 | -1.13 | 726 | 35.400 S | 5.61 |
| 670 | 0.3400 | -0.12 | 208 | 0.4280 | 1.71 | 300 | 0.2920 | -0.69 | 731 | 22.180 | -2.74 | 265 | 32.795 S | 4.19 |
| 619 | 0.3285 | -0.26 | 278 | 0.4000 | 1.23 | 309 | 0.2874 | -0.70 | 563 | 15.535 s | -10.81 | 505 | 26.650 | .82 |
| 208 | 0.3220 | -0.31 | 171 | 0.3920 | 1.05 | 610 | 0.2850 | -0.73 | 539 | 5.7800 s | -22.65 | 014 | 25.830 | .67 |
| 723 | 0.3155 | -0.39 | 358 | 0.3800 | .87 | 042 | 0.2830 | -0.76 | -- | Method 033.01 | -- | Avg | 25.167 | |
| 038 | 0.3130 | -0.41 | 021 | 0.3735 | .81 | 037 | 0.2845 | -0.79 | -- | Method 033.01 | -- | 848 | 23.020 | -1.18 |
| 350 | 0.3000 | -0.56 | 345 | 0.3650 | .61 | 035 | 0.2800 | -0.81 | 021 | 25.950 | 1.82 | | | |
| 175 | 0.2950 | -0.61 | 164 | 0.3500 | .49 | 100 | 0.2700 | -0.99 | 413 | 25.950 | 1.76 | | | |
| | | | | | | 154 | 0.2542 | -1.24 | 354 | 25.525 | .99 | | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|--------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|-------|
| -- | Method 033.05 | -- | -- | Method 034.05 | -- | -- | Method 035.01 | -- | -- | Method 035.03 | -- | -- | Method 036.03 | -- |
| 171 | 25.300 | .71 | 693 | 26.700 | -.12 | 563 | 9.6420 | .71 | 100 | 9.4900 | -.33 | 560 | 0.7130 | 1.49 |
| -- | Method 033.99 | -- | 154 | 24.800 | -.42 | -- | Method 035.03 | -- | 510 | 9.4270 | -.48 | 021 | 0.6940 R | 1.33 |
| 552 | 26.360 | 1.61 | 011 | 21.770 | -1.04 | 144 | 13.800 s | 10.22 | 011 | 9.4408 | -.59 | 169 | 0.6950 | 1.29 |
| 358 | 25.555 | .82 | 682 | 21.160 | -1.10 | 004 | 11.192 s | 3.75 | 029 | 9.2710 | -.86 | 294 | 0.6900 | 1.24 |
| 027 | 25.330 | .64 | -- | Method 034.06 | -- | 042 | 10.125 R | 2.01 | 242 | 9.2700 | -.86 | 278 | 0.6450 | .75 |
| 856 | 25.345 | .54 | 013 | 32.600 | .00 | 038 | 10.295 | 1.62 | 003 | 9.2450 | -.92 | 042 | 0.6055 | .33 |
| 653 | 25.165 | .33 | -- | Method 034.99 | -- | 186 | 10.200 | 1.37 | 021 | 9.3400 | -.98 | 345 | 0.6050 | .33 |
| 673 | 25.150 | .31 | 047 | 35.250 | .91 | 297 | 10.155 | 1.31 | 567 | 9.2200 | -.98 | 616 | 0.6035 | .31 |
| Avg | 24.867 | -- | 695 | 34.115 | .34 | 345 | 10.160 | 1.28 | 164 | 9.1850 | -1.08 | 353 | 0.5950 | .27 |
| 861 | 24.500 | -.41 | Avg | 33.455 | -- | 353 | 10.145 | 1.26 | 300 | 9.6240 R | -1.09 | Avg | 0.5751 | -- |
| 855 | 24.415 | -.53 | 096 | 31.000 | -1.25 | 413 | 10.100 | 1.13 | 661 | 9.1350 | -1.18 | 160 | 0.5720 | -.04 |
| 003 | 23.500 | -1.48 | -- | Method 035.00 | -- | 229 | 10.085 | 1.09 | 598 | 9.0665 | -1.35 | 038 | 0.5710 | -.09 |
| 619 | 23.350 | -1.64 | 263 | 10.720 | 1.93 | 358 | 10.060 | 1.09 | 616 | 8.9950 | -1.55 | 508 | 0.5607 | -.20 |
| 121 | 21.622 S | -3.56 | 650 | 10.600 | 1.70 | 865 | 10.040 | 1.04 | 520 | 9.2500 R | -2.01 | 693 | 0.5550 | -.22 |
| 728 | 0.6750 s | -26.07 | 035 | 10.530 | 1.56 | 309 | 10.060 | 1.03 | 550 | 8.7695 | -2.06 | 202 | 0.5550 | -.22 |
| -- | Method 034.01 | -- | 619 | 9.9400 | .66 | 668 | 9.9600 | .80 | 265 | 8.7643 | -2.07 | 171 | 0.5510 | -.26 |
| 038 | 30.550 | .86 | 208 | 10.020 | .59 | 610 | 9.9300 | .74 | 089 | 8.5350 | -2.62 | 045 | 0.5450 | -.33 |
| Avg | 25.595 | -- | 175 | 9.9900 | .56 | 425 | 9.9300 | .72 | 405 | 0.0720 s | -22.88 | 106 | 0.5445 | -.33 |
| 668 | 20.640 | -.87 | 505 | 9.9500 | .48 | 045 | 9.9050 | .70 | -- | Method 035.05 | -- | 300 | 0.5480 | -.33 |
| -- | Method 034.04 | -- | 142 | 9.7500 | .29 | 148 | 9.9200 | .70 | 560 | 11.500 | 1.44 | 309 | 0.5285 | -.50 |
| 208 | 36.900 | 1.77 | 720 | 9.7500 | .11 | 098 | 9.8100 | .55 | 171 | 10.645 | .43 | 366 | 0.5150 | -.65 |
| 035 | 33.450 | .70 | Avg | 9.7215 | -- | 049 | 9.8450 | .52 | 106 | 10.600 | .37 | 510 | 0.5100 | -.70 |
| 164 | 31.500 | .11 | 354 | 9.6750 | -.09 | 096 | 9.7000 | .51 | 294 | 10.370 | .11 | 357 | 0.5050 | -.76 |
| Avg | 31.207 | -- | 628 | 9.6000 | -.24 | 202 | 9.7200 | .42 | Avg | 10.312 | -- | 154 | 0.4115 | -1.76 |
| 610 | 31.000 | -.06 | 205 | 9.6300 | -.44 | 682 | 9.7800 | .36 | 169 | 9.7850 | -.64 | 265 | 0.3650 | -2.26 |
| 190 | 30.800 | -.13 | 233 | 9.4300 | -.57 | 366 | 9.7500 | .29 | 731 | 8.9700 | -1.63 | -- | Method 037.01 | -- |
| 175 | 29.500 R | -.61 | 305 | 9.4150 | -.61 | 693 | 9.6400 | .17 | 665 | 3.5450 S | -8.23 | 653 | 2827.5 | 2.35 |
| 169 | 28.000 | -1.00 | 675 | 9.3300 | -.76 | 083 | 9.6450 | .16 | 536 | 0.2000 S | -12.29 | 536 | 2720.0 R | 1.91 |
| 171 | 26.800 | -1.37 | 038 | 9.3300 | -.82 | 629 | 9.6850 | .14 | -- | Method 035.99 | -- | 675 | 2656.6 | 1.29 |
| -- | Method 034.05 | -- | 609 | 9.2050 | -1.02 | 187 | 9.6700 | .12 | 692 | 8.7050 | .92 | 612 | 2625.0 | 1.12 |
| 560 | 37.000 | 1.88 | 152 | 8.9500 | -1.49 | 160 | 9.6734 | .11 | Avg | 8.7025 | -- | 043 | 2624.0 | 1.11 |
| 021 | 33.750 R | 1.39 | 670 | 8.8930 | -1.60 | Avg | 9.6289 | -- | 613 | 8.7000 | -.81 | 716 | 2583.0 | .95 |
| 629 | 30.700 | .69 | -- | Method 036.03 | -- | 695 | 9.6000 | -.10 | 038 | 8.7000 | -.81 | 038 | 2550.0 | .76 |
| Avg | 27.014 | -- | 226 | 9.6150 | -.11 | 199 | 9.5825 | -.11 | 013 | 2530.0 | .71 | 013 | 2530.0 | .71 |
| 860 | 26.970 | -.01 | 508 | 9.6103 | -.12 | 208 | 9.6200 | -.13 | -- | Method 036.03 | -- | 014 | 2510.0 | .42 |
| | | | 208 | 9.6200 | -.13 | 278 | 9.5150 | -.28 | 550 | 1.2320 s | 7.08 | 208 | 2515.0 | .42 |
| | | | | | | | | | 186 | 1.0550 s | 5.17 | 035 | 2506.5 | .36 |
| | | | | | | | | | 187 | 0.8143 | 2.57 | 305 | 2500.0 | .33 |

* 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 037.01 | -- | -- | Method 037.03 | -- | -- | Method 037.05 | -- | -- | Method 038.00 | -- | -- | Method 051.00 | -- |
| 619 | 2478.5 | .22 | 511 | 2248.0 | -.59 | 186 | 2282.0 | -.28 | 345 | 0.3450 | -2.13 | 027 | 2461.1 | -1.71 |
| 354 | 2448.0 | .06 | 598 | 2238.5 | -.64 | 510 | 2275.0 | -.31 | -- | Method 038.99 | -- | -- | Method 051.03 | -- |
| Avg | 2447.3 | | 695 | 2230.0 | -.68 | 187 | 2244.1 | -.43 | 164 | 5.4500 | .71 | 010 | 3125.0 | 1.16 |
| 590 | 2400.0 | -.29 | 171 | 2210.0 | -.77 | 366 | 2210.0 | -.56 | -- | Method 039.01 | -- | 010 | 3125.0 | 1.16 |
| 628 | 2402.5 | -.33 | 144 | 2164.4 | -.97 | 154 | 2173.5 | -.73 | -- | Method 039.01 | -- | 846 | 3046.0 | .97 |
| 689 | 2392.5 | -.34 | 520 | 2176.0 | -1.04 | 278 | 2148.0 | -.80 | -- | Method 039.01 | -- | 038 | 2863.0 | .64 |
| 563 | 2387.0 | -.37 | 003 | 2133.0 | -1.11 | 309 | 2135.5 | -.86 | 164 | 11.350 | -.71 | 036 | 2850.0 | .50 |
| 175 | 2442.5 | -.51 | 685 | 2054.9 | -1.47 | 616 | 2120.0 | -.91 | -- | Method 039.02 | -- | 004 | 2818.5 | .43 |
| 505 | 2360.0 | -.54 | 049 | 2052.3 | -1.48 | 357 | 2098.5 | -1.00 | -- | Method 039.02 | -- | 675 | 2705.1 | .20 |
| 178 | 2342.5 | -.90 | 508 | 1855.6 | -2.36 | 037 | 1986.5 | -1.43 | 553 | 31.450 s | 7.37 | Avg | 2638.7 | |
| 669 | 2281.6 | -1.04 | 405 | 930.50 s | -6.52 | 567 | 1854.0 | -1.95 | 560 | 13.600 R | 1.51 | 001 | 2535.5 | -.26 |
| 350 | 2257.0 | -1.17 | 164 | 0.2380 s | -10.70 | 294 | 1811.3 | -2.12 | 021 | 17.150 | 1.48 | 017 | 2623.5 | -.33 |
| 731 | 2207.5 | -1.47 | -- | Method 037.05 | -- | 668 | 1657.4 | -2.72 | 154 | 16.700 | 1.31 | 723 | 2036.5 | -1.44 |
| 646 | 2216.5 | -1.48 | 726 | 2735.0 | 1.49 | -- | Method 037.99 | -- | Avg | 13.123 | | 014 | 1783.9 | -2.03 |
| 001 | 2295.5 R | -1.56 | 038 | 2710.0 | 1.41 | 047 | 2659.5 | 1.15 | 629 | 12.650 | -.17 | -- | Method 051.99 | -- |
| 019 | 2140.0 | -1.89 | 860 | 2662.5 | 1.21 | 866 | 2518.5 | .76 | 567 | 12.620 | -.20 | 160 | 3.7700 S | .00 |
| -- | Method 037.03 | -- | 413 | 2625.0 | 1.07 | Avg | 2242.1 | | 508 | 11.270 | -.71 | -- | Method 106.00 | -- |
| 629 | 2905.0 | 2.36 | 106 | 2620.0 | 1.04 | 692 | 2164.0 | -.27 | 011 | 11.344 | -.90 | -- | Method 106.00 | -- |
| 682 | 2699.8 | 1.44 | 190 | 2610.6 | 1.00 | 121 | 2191.2 | -.31 | 668 | 10.125 | -1.10 | 171 | 289.50 | .87 |
| 297 | 2684.0 | 1.40 | 560 | 2571.5 | .85 | 613 | 1677.5 | -1.56 | -- | Method 040.00 | -- | 019 | 270.61 | .46 |
| 553 | 2580.0 | .93 | 011 | 2557.3 R | .84 | 846 | 864.74 S | -3.80 | 560 | 3.3650 | -.71 | Avg | 256.37 | |
| 550 | 2566.9 | .89 | 512 | 2558.5 | .81 | -- | Method 038.00 | -- | -- | Method 041.00 | -- | 033 | 209.00 | -1.24 |
| 265 | 2518.2 | .67 | 027 | 2529.6 | .74 | 560 | 4.3100 | 1.15 | 021 | 26.750 | .87 | -- | Method 106.01 | -- |
| 029 | 2523.5 | .65 | 160 | 2513.5 | .62 | 510 | 4.3000 | 1.06 | Avg | 23.600 | | 858 | 181.80 | .71 |
| 229 | 2503.5 | .57 | 021 | 2501.5 | .59 | 096 | 4.0000 | .82 | 154 | 20.450 | -.86 | -- | Method 106.02 | -- |
| 226 | 2495.0 | .52 | 345 | 2501.1 | .58 | 154 | 4.0000 | .82 | -- | Method 051.00 | -- | 676 | 367.50 | 2.93 |
| 098 | 2474.5 | .47 | 045 | 2500.0 | .57 | 553 | 3.5450 | .63 | 029 | 3384.5 | 1.47 | 670 | 357.01 R | 2.78 |
| 074 | 2473.5 | .42 | 035 | 2500.0 | .57 | 508 | 3.7155 | .63 | 218 | 3159.7 | .95 | 038 | 276.30 R | 1.62 |
| 083 | 2458.0 | .36 | 353 | 2477.0 | .50 | 629 | 3.7200 | .59 | 035 | 3144.0 | .63 | 169 | 282.00 | 1.20 |
| 208 | 2433.0 | .30 | 096 | 2450.0 | .42 | 106 | 3.2000 | .19 | 036 | 3128.0 | .59 | 028 | 266.80 | .92 |
| 004 | 2427.0 | .22 | 017 | 2430.5 | .31 | 693 | 3.0100 | .19 | 511 | 3048.0 | .53 | 616 | 242.00 | .44 |
| Avg | 2379.8 | | 693 | 2417.5 | .26 | 038 | 3.0500 | .07 | 148 | 2976.0 | .05 | 563 | 226.59 | .10 |
| 610 | 2365.5 | -.07 | 169 | 2410.0 | .25 | Avg | 2.9854 | | Avg | 2961.1 | | 035 | 222.33 | .01 |
| 026 | 2371.5 | -.08 | 199 | 2407.5 | .21 | 668 | 2.8650 | -.17 | 013 | 2947.3 | -.35 | Avg | 222.07 | |
| 242 | 2332.0 | -.22 | Avg | 2353.6 | | 278 | 2.5750 | -.41 | 043 | 2735.0 | -.81 | 034 | 221.30 | -.02 |
| 100 | 2321.5 | -.26 | 042 | 2346.5 | -.11 | 021 | 1.1000 | -1.52 | 028 | 2627.0 | -1.31 | 619 | 210.50 | -.28 |
| 148 | 2314.5 | -.30 | 202 | 2342.5 | -.17 | 169 | 1.0450 | -1.57 | -- | | | -- | | |
| 358 | 2293.4 R | -.57 | 028 | 2313.5 | -.17 | -- | | | -- | | | -- | | |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index | Lab | Average* | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| -- | Method 106.02 | -- | -- | Method 109.02 | -- | -- | Method 125.00 | -- | -- | Method 131.00 | -- | -- | Method 136.99 | -- |
| 208 | 218.50 | -.30 | 199 | 431.00 | -1.09 | 227 | 0.5655 | -.78 | 859 | 0.0655 | .72 | 859 | 0.0230 | .71 |
| 675 | 198.01 | -.51 | 560 | 409.00 | -1.63 | 652 | 0.5700 | -.79 | Avg | 0.0603 | | | | |
| 689 | 194.80 | -.55 | -- | Method 109.99 | -- | -- | Method 126.00 | -- | 652 | 0.0550 | -.99 | -- | Method 137.00 | -- |
| 199 | 193.50 | -.57 | 096 | 511.50 | .71 | 676 | 0.2875 R | 16.70 | -- | Method 131.02 | -- | 676 | 1.5950 | .87 |
| 027 | 189.07 | -.66 | 859 | 0.1660 | .99 | 652 | 0.1600 | .22 | 227 | 0.0500 | .00 | Avg | 0.8590 | |
| 096 | 181.40 | -.82 | -- | Method 120.00 | -- | Avg | 0.1583 | | -- | Method 132.00 | -- | 227 | 0.1230 | -.87 |
| 610 | 175.30 | -.94 | 676 | 0.3335 | 1.60 | 227 | 0.1490 | -1.21 | 652 | 0.1900 | .74 | -- | Method 138.00 | -- |
| 021 | 163.50 | -1.18 | Avg | 0.2763 | | 859 | 0.2650 | -.31 | 676 | 0.1835 | .64 | 652 | 0.1950 | .62 |
| 560 | 36.250 s | -3.73 | 652 | 0.2550 | -.60 | 227 | 0.2515 | -.69 | 227 | 0.1520 | .22 | Avg | 0.1739 | |
| -- | Method 106.99 | -- | 227 | 0.2515 | -.69 | -- | Method 127.00 | -- | Avg | 0.1380 | | 227 | 0.1665 | -.23 |
| 003 | 233.50 | .97 | 859 | 0.1980 | -.24 | 652 | 0.1050 | 1.16 | 859 | 0.0265 | -1.58 | 859 | 0.1245 | -1.41 |
| Avg | 229.30 | | 652 | 0.1750 | -.54 | 227 | 0.0870 | .49 | -- | Method 133.00 | -- | 676 | 0.2095 | 1.04 |
| 029 | 225.10 | -.75 | 227 | 0.1510 | -1.09 | Avg | 0.0740 | | -- | Method 134.00 | -- | 652 | 0.1950 | .62 |
| -- | Method 108.01 | -- | 859 | 0.2585 | 1.40 | 859 | 0.0665 | -.28 | 676 | 0.3305 | 1.15 | 227 | 0.1739 | |
| 096 | 20.000 | .90 | 676 | 0.2075 | .27 | 676 | 0.0375 | -1.35 | Avg | 0.2657 | | 227 | 0.1665 | -.23 |
| Avg | 16.050 | | Avg | 0.1980 | | -- | Method 128.00 | -- | 652 | 0.2550 | -.48 | 227 | 0.1665 | -.23 |
| 227 | 12.100 | -.83 | 652 | 0.1750 | -.54 | 676 | 0.1410 | 1.45 | 227 | 0.2115 | -.97 | 859 | 0.1245 | -1.41 |
| -- | Method 108.02 | -- | 227 | 0.1510 | -1.09 | Avg | 0.1269 | | -- | Method 135.00 | -- | 676 | 0.2095 | 1.04 |
| 169 | 24.000 | 1.28 | -- | Method 122.00 | -- | 227 | 0.1245 | -.29 | 676 | 0.1995 | 1.47 | 652 | 0.1950 | .62 |
| 171 | 22.400 | .98 | 676 | 0.3590 | 1.56 | 652 | 0.1250 | -.54 | Avg | 0.1718 | | 227 | 0.1739 | |
| Avg | 16.802 | | Avg | 0.3079 | | 859 | 0.1170 | -1.01 | 227 | 0.1635 | -.43 | 227 | 0.1665 | -.23 |
| 675 | 14.785 | -.36 | 859 | 0.3000 | -.24 | -- | Method 129.00 | -- | 652 | 0.1700 | -.53 | 859 | 0.1245 | -1.41 |
| 858 | 12.450 | -.75 | 227 | 0.2925 | -.47 | 676 | 0.4070 | 1.55 | 859 | 0.1540 | -.94 | 676 | 0.2095 | 1.04 |
| 208 | 10.375 | -1.10 | 652 | 0.2800 | -.89 | Avg | 0.3585 | | -- | Method 135.00 | -- | 652 | 0.1950 | .62 |
| -- | Method 109.02 | -- | -- | Method 124.00 | -- | 652 | 0.3500 | -.41 | 676 | 0.1715 | 1.56 | 227 | 0.1739 | |
| 675 | 540.84 | 1.59 | 652 | 0.0700 | .83 | 227 | 0.3455 | -.44 | Avg | 0.1489 | | 227 | 0.1665 | -.23 |
| 860 | 530.57 | 1.33 | Avg | 0.0688 | | 859 | 0.3315 | -.85 | 859 | 0.1430 | -.40 | 652 | 0.1450 | -.42 |
| 169 | 490.00 | .76 | 859 | 0.0675 | -.90 | -- | Method 130.00 | -- | 652 | 0.1450 | -.42 | 227 | 0.1360 | -.86 |
| 610 | 501.50 | .64 | -- | Method 124.02 | -- | 676 | 0.1560 | 1.50 | 227 | 0.1360 | -.86 | -- | Method 136.01 | -- |
| 619 | 494.50 | .51 | 227 | 0.0600 | .00 | Avg | 0.1268 | | -- | Method 136.01 | -- | 227 | 0.0315 | .71 |
| Avg | 476.09 | | 859 | 0.1265 | -.08 | 859 | 0.1265 | -.08 | -- | Method 136.01 | -- | 227 | 0.0315 | .71 |
| 208 | 465.56 | -.29 | 652 | 0.1250 | -- | 652 | 0.1150 | -.65 | 227 | 0.0315 | .71 | -- | Method 136.01 | -- |
| 227 | 474.00 | -.29 | 676 | 0.6840 | 1.51 | 227 | 0.1095 | -.90 | -- | Method 136.01 | -- | 227 | 0.0315 | .71 |
| 563 | 456.01 | -.49 | Avg | 0.6060 | | 859 | 0.6045 | -.06 | -- | Method 136.01 | -- | 227 | 0.0315 | .71 |
| 676 | 444.00 | -.84 | 859 | 0.6045 | -.06 | -- | Method 125.00 | -- | -- | Method 136.01 | -- | 227 | 0.0315 | .71 |

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

Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 001.00 | 7 | 0.0000 | 1.04 | 0.09 | 015.00 | 11 | 0.0545 | 0.98 | 0.24 |
| 001.03 | 3 | 0.0000 | 1.10 | 0.17 | 016.02 | 5 | 0.0000 | 1.04 | 0.20 |
| 001.07 | 20 | 0.0000 | 0.99 | 0.22 | 017.00 | 8 | 1.4275 | 4.15 | 0.52 |
| 001.99 | 9 | 0.0000 | 1.02 | 0.12 | 018.02 | 8 | -0.0908 | 0.99 | 0.20 |
| 002.00 | 2 | 0.0000 | 1.21 | 0.11 | 019.00 | 14 | -1.7838 | 5.49 | 0.13 |
| 002.01 | 2 | 0.0000 | 0.13 | 0.86 | 019.01 | 42 | -0.3555 | 3.08 | 0.18 |
| 002.02 | 2 | 0.0000 | 1.21 | 0.11 | 019.03 | 3 | 0.0000 | 1.11 | 0.10 |
| 002.05 | 7 | 3.0677 | 6.41 | 0.63 | 019.05 | 40 | -0.7137 | 3.48 | 0.39 |
| 002.06 | 35 | 5.8224 | 33.66 | 0.40 | 019.08 | 4 | 0.0000 | 1.07 | 0.11 |
| 002.08 | 4 | 0.0000 | 1.06 | 0.17 | 019.09 | 34 | 0.0125 | 0.97 | 0.25 |
| 002.10 | 3 | 15.0790 | 26.13 | 6.24 | 019.99 | 8 | 0.2572 | 1.17 | 0.58 |
| 002.99 | 2 | 209.3429 | 296.06 | 98.15 | 020.00 | 2 | 0.0000 | 1.19 | 0.19 |
| 003.00 | 5 | 0.0000 | 1.05 | 0.15 | 020.01 | 10 | -0.1208 | 1.04 | 0.42 |
| 003.06 | 9 | -0.2128 | 1.82 | 0.39 | 020.99 | 2 | -4.4501 | 6.29 | 0.50 |
| 003.09 | 4 | 0.0000 | 1.06 | 0.20 | 021.01 | 9 | 0.1059 | 1.02 | 0.10 |
| 003.10 | 7 | 0.0000 | 1.04 | 0.09 | 021.02 | 20 | -0.3641 | 1.85 | 0.27 |
| 003.12 | 2 | 0.0000 | 1.21 | 0.13 | 021.99 | 4 | 0.0000 | 1.08 | 0.06 |
| 003.13 | 2 | 0.0000 | 1.08 | 0.40 | 022.01 | 29 | 0.6249 | 3.20 | 0.58 |
| 003.14 | 6 | 0.0000 | 1.03 | 0.20 | 022.03 | 31 | -0.0124 | 2.54 | 0.34 |
| 003.99 | 4 | 0.0000 | 1.06 | 0.19 | 022.05 | 38 | -0.4929 | 2.43 | 1.23 |
| 004.00 | 8 | 0.0000 | 1.03 | 0.09 | 022.99 | 7 | -1.0639 | 2.97 | 0.14 |
| 004.06 | 9 | 1.3440 | 4.14 | 0.33 | 024.01 | 2 | 0.0000 | 0.01 | 0.87 |
| 004.07 | 9 | 3.8294 | 11.17 | 0.34 | 025.01 | 17 | -0.4290 | 1.41 | 0.05 |
| 004.99 | 2 | 5.3831 | 7.61 | 0.60 | 025.03 | 32 | -0.1087 | 1.34 | 0.19 |
| 005.00 | 67 | -0.4894 | 3.08 | 0.11 | 025.05 | 31 | -0.0550 | 1.18 | 0.12 |
| 005.99 | 12 | -8.7039 | 21.13 | 0.57 | 025.99 | 3 | 2.0610 | 3.67 | 0.05 |
| 008.02 | 2 | 0.0000 | 1.22 | 0.09 | 026.00 | 5 | 0.0000 | 0.99 | 0.35 |
| 008.08 | 4 | 1.6261 | 3.35 | 1.05 | 026.99 | 2 | 0.0000 | 1.18 | 0.24 |
| 008.99 | 2 | 0.0000 | 1.22 | 0.07 | 027.01 | 30 | -0.6420 | 3.27 | 0.32 |
| 009.07 | 3 | 0.0000 | 1.12 | 0.05 | 027.03 | 37 | 0.1122 | 1.20 | 0.34 |
| 009.09 | 2 | 0.0000 | 0.15 | 0.86 | 027.05 | 33 | -0.1568 | 1.18 | 0.26 |
| 010.03 | 2 | -2.9866 | 4.22 | 0.77 | 027.99 | 5 | 0.0000 | 1.03 | 0.21 |
| 010.99 | 9 | 0.4827 | 1.73 | 0.22 | 028.01 | 27 | -0.0576 | 1.02 | 0.28 |
| 011.01 | 39 | -0.1608 | 1.24 | 0.51 | 028.03 | 33 | -0.1892 | 1.80 | 0.22 |
| 012.01 | 2 | 0.0000 | 1.22 | 0.07 | 028.05 | 36 | -0.2789 | 2.00 | 0.15 |
| 012.04 | 2 | 0.0000 | 1.21 | 0.13 | 028.99 | 7 | -1.9691 | 3.60 | 0.14 |
| 013.02 | 9 | 0.5775 | 2.29 | 0.47 | 031.01 | 46 | 2.9358 | 17.08 | 0.32 |
| 013.10 | 6 | 0.0000 | 1.00 | 0.29 | 031.02 | 5 | 0.0000 | 0.99 | 0.34 |
| 013.11 | 2 | 0.0000 | 1.06 | 0.43 | 031.03 | 5 | 0.0000 | 1.01 | 0.29 |

Method Evaluation - Z Values Based on 1 Reports

| Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs | Method Code | Number Of Labs | Avg Bias of Labs | Std Dev of Biases | Std Dev Within Labs |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 031.05 | 74 | -0.1790 | 2.17 | 0.30 | 126.00 | 4 | 4.1735 | 8.40 | 0.30 |
| 031.99 | 12 | -1.2995 | 6.51 | 0.44 | 127.00 | 4 | 0.0000 | 1.07 | 0.10 |
| 032.01 | 26 | 0.8917 | 2.59 | 0.13 | 128.00 | 4 | 0.0000 | 1.03 | 0.29 |
| 032.02 | 6 | 0.1953 | 1.06 | 0.15 | 129.00 | 4 | 0.0000 | 1.05 | 0.23 |
| 032.05 | 63 | 1.5910 | 6.37 | 0.33 | 130.00 | 4 | 0.0000 | 1.06 | 0.18 |
| 032.99 | 4 | 0.0000 | 1.07 | 0.15 | 131.00 | 2 | 0.0000 | 1.01 | 0.49 |
| 033.00 | 21 | -1.1144 | 5.79 | 0.25 | 132.00 | 4 | 0.0000 | 1.08 | 0.04 |
| 033.01 | 29 | -1.7574 | 8.43 | 0.33 | 133.00 | 3 | 0.0000 | 1.07 | 0.26 |
| 033.03 | 6 | 2.5937 | 2.97 | 0.27 | 134.00 | 4 | 0.0000 | 1.03 | 0.28 |
| 033.99 | 12 | -2.4637 | 7.56 | 0.27 | 135.00 | 4 | 0.0000 | 1.04 | 0.25 |
| 034.01 | 2 | 0.0000 | 1.20 | 0.18 | 137.00 | 2 | 0.0000 | 1.22 | 0.03 |
| 034.04 | 8 | -0.0661 | 0.98 | 0.12 | 138.00 | 3 | 0.4688 | 0.62 | 0.16 |
| 034.05 | 8 | 0.1586 | 1.06 | 0.23 | | | | | |
| 034.99 | 3 | 0.0000 | 1.12 | 0.02 | | | | | |
| 035.00 | 19 | 0.0000 | 0.99 | 0.21 | | | | | |
| 035.03 | 53 | -0.1676 | 3.62 | 0.51 | | | | | |
| 035.05 | 8 | -2.5652 | 4.95 | 0.10 | | | | | |
| 035.99 | 2 | 0.0000 | 0.07 | 0.86 | | | | | |
| 036.03 | 27 | 0.5007 | 1.91 | 0.12 | | | | | |
| 037.01 | 27 | 0.0275 | 1.01 | 0.40 | | | | | |
| 037.03 | 32 | -0.5791 | 2.37 | 0.16 | | | | | |
| 037.05 | 37 | 0.0215 | 1.00 | 0.11 | | | | | |
| 037.99 | 6 | -0.6326 | 1.81 | 0.14 | | | | | |
| 038.00 | 15 | 0.0000 | 1.00 | 0.20 | | | | | |
| 039.02 | 9 | 0.7645 | 2.39 | 1.16 | | | | | |
| 041.00 | 2 | 0.0000 | 1.22 | 0.09 | | | | | |
| 051.00 | 10 | 0.0000 | 0.95 | 0.37 | | | | | |
| 051.03 | 10 | 0.0000 | 1.01 | 0.17 | | | | | |
| 106.00 | 3 | 0.0000 | 1.10 | 0.17 | | | | | |
| 106.02 | 19 | 0.0035 | 1.45 | 0.33 | | | | | |
| 106.99 | 2 | 0.0000 | 1.05 | 0.44 | | | | | |
| 108.01 | 2 | 0.0000 | 1.16 | 0.28 | | | | | |
| 108.02 | 5 | 0.0000 | 1.04 | 0.19 | | | | | |
| 109.02 | 11 | 0.0000 | 0.98 | 0.28 | | | | | |
| 120.00 | 4 | 0.0000 | 1.07 | 0.13 | | | | | |
| 121.00 | 4 | 0.0000 | 1.07 | 0.10 | | | | | |
| 122.00 | 4 | 0.0000 | 1.05 | 0.21 | | | | | |
| 124.00 | 2 | 0.0000 | 1.18 | 0.24 | | | | | |
| 125.00 | 4 | 0.0000 | 1.05 | 0.21 | | | | | |