

Feed Check Sample No. - 200728 Lamb Starter, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 200 Labs - - Pass 2 Results for 200 Labs -

| Method                                  | AOAC<br>18th | Method<br>Code | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups |
|---|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Urea, Misc .....                        |              | 000.99         | 2                 | 10.6725       | 11.2901      | 0.05500                     | 2                 | 10.6725       | 11.2901      | 0.05500                     |
| Method Group 000.XX PCT                 |              |                | 2                 | 10.6725       | 11.2901      | 0.05500                     | 2                 | 10.6725       | 11.2901      | 0.05500                     |
| Loss on Drying, Vac 95 deg 5 hr .....   | 934.01       | 001.00         | 5                 | 9.11800       | 0.48998      | 0.04000                     | 5                 | 9.11800       | 0.48998      | 0.04000                     |
| Loss on Drying, ISO 6496 .....          |              | 001.03         | 4                 | 9.23750       | 0.05625      | 0.04500                     | 4                 | 9.23750       | 0.05625      | 0.04500                     |
| Loss on Drying, LECO .....              |              | 001.05         | 1                 | 9.14500       | 0.00707      | 0.01000                     | 1                 | 9.14500       | 0.00707      | 0.01000                     |
| Loss on Drying, 104 deg 3 hr, in malt . | 935.29       | 001.07         | 44                | 8.97389       | 0.34668      | 0.14056                     | 43                | 8.98886       | 0.33435      | 0.13313                     |
| Loss on Drying, Misc .....              |              | 001.99         | 14                | 9.18768       | 0.54671      | 0.19979                     | 15                | 9.40183       | 0.64734      | 0.14380                     |
| Method Group 001.XX PCT                 |              |                | 68                | 9.04652       | 0.40454      | 0.13782                     | 66                | 9.06498       | 0.39156      | 0.12275                     |
| Protein, Crude .....                    | 954.01       | 002.00         | 3                 | 20.9367       | 0.32297      | 0.13333                     | 3                 | 20.9367       | 0.32297      | 0.13333                     |
| Protein, Auto Kjel-Foss .....           | 976.05       | 002.01         | 9                 | 20.8817       | 0.34451      | 0.07010                     | 8                 | 20.9311       | 0.32714      | 0.03509                     |
| Protein, Semiauto Autoanalyzer .....    | 976.06       | 002.02         | 13                | 21.1546       | 0.55931      | 0.22000                     | 13                | 21.1546       | 0.55931      | 0.22000                     |
| Protein, Hach Method .....              |              | 002.03         | 1                 | 21.4000       | 0.42426      | 0.60000                     | 1                 | 21.4000       | 0.42426      | 0.60000                     |
| Protein, Copper Cat .....               | 984.13       | 002.04         | 6                 | 21.2283       | 0.57537      | 0.14000                     | 6                 | 21.2283       | 0.57537      | 0.14000                     |
| Protein, Copper, Boric Acid .....       |              | 002.05         | 21                | 20.6836       | 0.31219      | 0.13307                     | 20                | 20.6513       | 0.27705      | 0.11472                     |
| Protein, Combustion Nitrogen Analyzer   | 990.03       | 002.06         | 114               | 21.1594       | 0.29535      | 0.13492                     | 112               | 21.1539       | 0.29121      | 0.12466                     |
| Protein, Block Dig .....                | 976.06       | 002.07         | 1                 | 20.9250       | 0.02121      | 0.03000                     | 1                 | 20.9250       | 0.02121      | 0.03000                     |
| Protein, Cu/Ti .....                    | 988.05       | 002.08         | 6                 | 20.9501       | 0.09554      | 0.10717                     | 6                 | 20.9501       | 0.09554      | 0.10717                     |
| Protein, Block dig/distillation .....   |              | 002.10         | 8                 | 20.9563       | 0.30267      | 0.10250                     | 8                 | 20.9563       | 0.30267      | 0.10250                     |
| Protein, NIR .....                      |              | 002.11         | 15                | 21.2091       | 0.50120      | 0.17307                     | 16                | 21.1170       | 0.60533      | 0.16288                     |
| Protein, Misc .....                     |              | 002.99         | 7                 | 21.0614       | 0.55855      | 0.18286                     | 7                 | 21.0614       | 0.55855      | 0.18286                     |
| Method Group 002.XX PCT                 |              |                | 204               | 21.0828       | 0.38800      | 0.14155                     | 200               | 21.0807       | 0.38505      | 0.13303                     |
| Fat, Eth Ext, Direct .....              | 920.39       | 003.00         | 27                | 4.78163       | 0.21717      | 0.07379                     | 27                | 4.78163       | 0.21717      | 0.07379                     |
| Fat, Pet Ether .....                    |              | 003.06         | 20                | 4.71800       | 0.16527      | 0.11600                     | 18                | 4.71056       | 0.14751      | 0.08000                     |
| Fat, Soxtec, Eth Ext .....              |              | 003.09         | 27                | 4.73179       | 0.22996      | 0.09540                     | 26                | 4.74167       | 0.22342      | 0.08022                     |
| Fat, Soxtec, Pet Ether .....            |              | 003.10         | 35                | 4.62140       | 0.22971      | 0.06370                     | 33                | 4.63755       | 0.21632      | 0.04453                     |
| Fat, NIR .....                          |              | 003.11         | 15                | 4.31207       | 0.26987      | 0.03960                     | 15                | 4.31207       | 0.26987      | 0.03960                     |
| Fat, Hexane Ext. ....                   |              | 003.12         | 5                 | 4.75700       | 0.20210      | 0.12200                     | 5                 | 4.75700       | 0.20210      | 0.12200                     |
| Fat, Soxtec, Hexane Ext. ....           |              | 003.13         | 4                 | 4.68713       | 0.03957      | 0.04575                     | 4                 | 4.68713       | 0.03957      | 0.04575                     |
| Fat, Ankom .....                        |              | 003.14         | 15                | 4.49683       | 0.32267      | 0.14300                     | 15                | 4.49683       | 0.32267      | 0.14300                     |
| Fat, Misc .....                         |              | 003.99         | 9                 | 4.77333       | 0.41090      | 0.06667                     | 8                 | 4.71813       | 0.39860      | 0.03625                     |
| Method Group 003.XX PCT                 |              |                | 157               | 4.65349       | 0.27951      | 0.08439                     | 151               | 4.65317       | 0.27391      | 0.07159                     |
| Fiber, Crude Asbestos Free .....        | 962.09       | 004.00         | 29                | 5.22679       | 0.38722      | 0.08931                     | 26                | 5.19872       | 0.32364      | 0.06192                     |
| Fiber, Sing Filt .....                  |              | 004.01         | 1                 | 6.53500       | 0.34648      | 0.49000                     | 1                 | 6.53500       | 0.34648      | 0.49000                     |
| Fiber, Fritted Glass .....              | 978.10       | 004.03         | 4                 | 6.02375       | 0.63859      | 0.30750                     | 4                 | 6.02375       | 0.63859      | 0.30750                     |
| Fiber, Fibertec .....                   |              | 004.06         | 31                | 5.59493       | 0.35565      | 0.18592                     | 30                | 5.58326       | 0.34277      | 0.15778                     |
| Fiber, ANKOM .....                      |              | 004.07         | 43                | 5.08430       | 0.44112      | 0.13744                     | 41                | 5.07659       | 0.44683      | 0.12195                     |
| Fiber, NIR .....                        |              | 004.11         | 15                | 5.66160       | 0.57458      | 0.10560                     | 15                | 5.66160       | 0.57458      | 0.10560                     |
| Fiber, Misc .....                       |              | 004.99         | 6                 | 5.09417       | 0.54608      | 0.08833                     | 6                 | 5.09417       | 0.54608      | 0.08833                     |
| Method Group 004.XX PCT                 |              |                | 129               | 5.34700       | 0.51979      | 0.14029                     | 123               | 5.34084       | 0.51499      | 0.12339                     |

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|---|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Ash, .....                              | 942.05       | 005.00         | 131               | 8.17057       | 0.31735      | 0.07234                     | 123               | 8.16394       | 0.30800      | 0.05265                     |
| Ash, LECO .....                         |              | 005.02         | 1                 | 8.22500       | 0.00707      | 0.01000                     | 1                 | 8.22500       | 0.00707      | 0.01000                     |
| Ash, NIR .....                          |              | 005.11         | 11                | 7.75705       | 0.58263      | 0.14118                     | 11                | 7.75705       | 0.58263      | 0.14118                     |
| Ash, Misc .....                         |              | 005.99         | 12                | 8.23000       | 0.36407      | 0.11500                     | 12                | 8.23000       | 0.36407      | 0.11500                     |
| Method Group 005.XX PCT                 |              |                | 155               | 8.14617       | 0.36038      | 0.08012                     | 147               | 8.13930       | 0.35534      | 0.06407                     |
| Sugar, TSI, Lane-Eynon (12th) .....     | 923.09       | 006.05         | 1                 | 6.39000       | 0.04243      | 0.06000                     | 1                 | 6.39000       | 0.04243      | 0.06000                     |
| Fiber, Acid Detergent .....             | 973.18       | 008.02         | 16                | 6.99094       | 0.47194      | 0.11187                     | 16                | 6.99094       | 0.47194      | 0.11187                     |
| Fiber, Acid Detergent-Hach .....        |              | 008.05         | 1                 | 7.10000       | 1.13137      | 1.60000                     | 1                 | 7.10000       | 1.13137      | 1.60000                     |
| Fiber, Acid Detergent by ANKOM .....    |              | 008.08         | 21                | 6.70595       | 0.55401      | 0.23190                     | 20                | 6.67100       | 0.53581      | 0.20100                     |
| Fiber, Acid Detergent Misc .....        |              | 008.99         | 9                 | 6.58811       | 0.63342      | 0.33578                     | 8                 | 6.68538       | 0.52368      | 0.17275                     |
| Method Group 008.XX PCT                 |              |                | 47                | 6.78879       | 0.56894      | 0.24004                     | 45                | 6.79684       | 0.53754      | 0.19538                     |
| Fiber, Neutral Det-No ENZ Pretreat .... |              | 009.04         | 1                 | 18.1900       | 0.01414      | 0.02000                     | 1                 | 18.1900       | 0.01414      | 0.02000                     |
| Fiber, Neutral Det-ENZ Pretreat .....   |              | 009.07         | 16                | 14.5619       | 1.13878      | 0.36375                     | 15                | 14.5160       | 1.14990      | 0.30133                     |
| Fiber, Neutral Detergent by ANKOM ..... |              | 009.09         | 18                | 14.1903       | 0.95625      | 0.37056                     | 17                | 14.0571       | 0.78028      | 0.30706                     |
| Fiber, Neutral Det Misc .....           |              | 009.99         | 4                 | 15.0031       | 0.93623      | 0.40825                     | 4                 | 15.0031       | 0.93623      | 0.40825                     |
| Method Group 009.XX PCT                 |              |                | 39                | 14.5287       | 1.20125      | 0.36264                     | 37                | 14.4571       | 1.17259      | 0.30792                     |
| Moisture, NIR .....                     |              | 010.11         | 12                | 9.36204       | 0.83014      | 0.11342                     | 11                | 9.37677       | 0.86500      | 0.08736                     |
| Moisture, Misc .....                    |              | 010.99         | 15                | 8.91700       | 0.82295      | 0.17000                     | 15                | 8.91700       | 0.82295      | 0.17000                     |
| Method Group 010.XX PCT                 |              |                | 27                | 9.11480       | 0.84821      | 0.14485                     | 26                | 9.11152       | 0.86360      | 0.13504                     |
| Loss on Drying, 135 deg 2 hr .....      | 930.15       | 011.01         | 75                | 10.4836       | 0.42588      | 0.13960                     | 71                | 10.4926       | 0.41404      | 0.11175                     |
| Loss on Drying, High Temp Methods, Misc |              | 011.99         | 2                 | 9.73750       | 0.08617      | 0.03500                     | 2                 | 9.73750       | 0.08617      | 0.03500                     |
| Method Group 011.XX PCT                 |              |                | 77                | 10.4642       | 0.43698      | 0.13689                     | 73                | 10.4720       | 0.42680      | 0.10965                     |
| Starch, Polarimetric (Ewers) .....      |              | 012.00         | 9                 | 28.9867       | 1.55556      | 0.42000                     | 9                 | 28.9867       | 1.55556      | 0.42000                     |
| Starch, Megazyme .....                  |              | 012.01         | 2                 | 26.8225       | 0.59084      | 0.78500                     | 2                 | 26.8225       | 0.59084      | 0.78500                     |
| Starch, Enzymatic .....                 |              | 012.03         | 3                 | 27.2500       | 0.14615      | 0.23333                     | 3                 | 27.2500       | 0.14615      | 0.23333                     |
| Starch, YSI Analyzer .....              |              | 012.04         | 5                 | 27.6100       | 1.80082      | 0.34800                     | 5                 | 27.6100       | 1.80082      | 0.34800                     |
| Method Group 012.XX PCT                 |              |                | 19                | 28.1224       | 1.63470      | 0.41000                     | 19                | 28.1224       | 1.63470      | 0.41000                     |
| Fat, Mojonnier, Bak Ext .....           | 954.02       | 013.02         | 20                | 5.71625       | 0.38173      | 0.17550                     | 19                | 5.70895       | 0.38314      | 0.15053                     |
| Fat, Soxtec-Acid Hydrolysis .....       |              | 013.10         | 16                | 5.15494       | 0.57593      | 0.17038                     | 15                | 5.18227       | 0.57910      | 0.13973                     |
| Fat, Ankon-Acid Hydrolysis .....        |              | 013.13         | 1                 | 7.06500       | 0.03536      | 0.05000                     | 1                 | 7.06500       | 0.03536      | 0.05000                     |
| Fat, Pretreat or extended ext, misc ... |              | 013.99         | 2                 | 5.01750       | 0.38612      | 0.05500                     | 2                 | 5.01750       | 0.38612      | 0.05500                     |
| Method Group 013.XX PCT                 |              |                | 39                | 5.48472       | 0.60201      | 0.16400                     | 37                | 5.49470       | 0.59818      | 0.13827                     |
| Aluminum, ICP .....                     |              | 015.00         | 12                | 151.499       | 12.8404      | 4.73417                     | 11                | 150.317       | 12.3498      | 3.25545                     |
| Method Group 015.XX PPM                 |              |                | 12                | 151.499       | 12.8404      | 4.73417                     | 11                | 150.317       | 12.3498      | 3.25545                     |
| Arsenic, AA, Hydride .....              |              | 016.00         | 1                 | 0.10000       | 0.00000      | 0.00000                     | 1                 | 0.10000       | 0.00000      | 0.00000                     |
| Arsenic, ICP .....                      |              | 016.02         | 1                 | 0.16000       | 0.04243      | 0.06000                     | 1                 | 0.16000       | 0.04243      | 0.06000                     |
| Method Group 016.XX PPM                 |              |                | 2                 | 0.13000       | 0.04243      | 0.03000                     | 2                 | 0.13000       | 0.04243      | 0.03000                     |
| Boron, ICP .....                        |              | 017.00         | 7                 | 13.4057       | 1.36265      | 0.76286                     | 6                 | 13.3900       | 1.33545      | 0.39000                     |
| Boron, Misc .....                       |              | 017.99         | 1                 | 15.6500       | 0.49497      | 0.70000                     | 1                 | 15.6500       | 0.49497      | 0.70000                     |

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|--|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Method Group 017.XX PPM                |              |                | 8                 | 13.6863       | 1.48768      | 0.75500                     | 7                 | 13.7129       | 1.48372      | 0.43429                     |
| Cadmium, ICP .....                     |              | 018.02         | 3                 | 0.14283       | 0.04442      | 0.00467                     | 3                 | 0.14283       | 0.04442      | 0.00467                     |
| Method Group 018.XX PPM                |              |                | 3                 | 0.14283       | 0.04442      | 0.00467                     | 3                 | 0.14283       | 0.04442      | 0.00467                     |
| Calcium, Ox-Mn04 Vol .....             | 927.02       | 019.00         | 13                | 1.70228       | 0.08657      | 0.01850                     | 13                | 1.70228       | 0.08657      | 0.01850                     |
| Calcium, At Abs Spect .....            | 968.08       | 019.01         | 53                | 1.69239       | 0.09138      | 0.03231                     | 50                | 1.69323       | 0.08854      | 0.02285                     |
| Calcium, Hach Method .....             |              | 019.02         | 1                 | 1.58000       | 0.08485      | 0.12000                     | 1                 | 1.58000       | 0.08485      | 0.12000                     |
| Calcium, Semiauto (Autoanalyzer) ..... |              | 019.03         | 5                 | 1.78800       | 0.04237      | 0.02400                     | 5                 | 1.78800       | 0.04237      | 0.02400                     |
| Calcium, ICP, Dry Ash.....             |              | 019.05         | 39                | 1.70887       | 0.07056      | 0.03285                     | 37                | 1.70926       | 0.06405      | 0.02352                     |
| Calcium, EDTA .....                    |              | 019.08         | 8                 | 1.76902       | 0.04463      | 0.03009                     | 8                 | 1.76902       | 0.04463      | 0.03009                     |
| Calcium, ICP, Wet Ash .....            |              | 019.09         | 27                | 1.69511       | 0.06173      | 0.03059                     | 25                | 1.69252       | 0.06134      | 0.02464                     |
| Calcium, Misc .....                    |              | 019.99         | 5                 | 1.67400       | 0.09082      | 0.05200                     | 5                 | 1.67400       | 0.09082      | 0.05200                     |
| Method Group 019.XX PCT                |              |                | 151               | 1.70385       | 0.08101      | 0.03179                     | 144               | 1.70409       | 0.07860      | 0.02507                     |
| Chromium, AA.....                      |              | 020.00         | 2                 | 4.58725       | 0.35254      | 0.50150                     | 2                 | 4.58725       | 0.35254      | 0.50150                     |
| Chromium, ICP .....                    |              | 020.01         | 9                 | 4.39256       | 0.86895      | 0.51300                     | 8                 | 4.44163       | 0.83624      | 0.32713                     |
| Chromium, Misc .....                   |              | 020.99         | 1                 | 5.94000       | 0.63640      | 0.90000                     | 1                 | 5.94000       | 0.63640      | 0.90000                     |
| Method Group 020.XX PPM                |              |                | 12                | 4.55396       | 0.88292      | 0.54333                     | 11                | 4.60432       | 0.85245      | 0.41091                     |
| Cobalt, AA .....                       | 968.08       | 021.01         | 3                 | 2.06583       | 0.83163      | 0.14833                     | 3                 | 2.06583       | 0.83163      | 0.14833                     |
| Cobalt, ICP .....                      |              | 021.02         | 16                | 1.50561       | 0.43917      | 0.27409                     | 14                | 1.54730       | 0.34257      | 0.11432                     |
| Cobalt, Misc. ....                     |              | 021.99         | 3                 | 1.82337       | 0.36952      | 0.04880                     | 3                 | 1.82337       | 0.36952      | 0.04880                     |
| Method Group 021.XX PPM                |              |                | 22                | 1.62533       | 0.52778      | 0.22622                     | 20                | 1.66649       | 0.47533      | 0.10960                     |
| Copper, AA .....                       | 968.08       | 022.01         | 27                | 32.7116       | 2.10931      | 0.99952                     | 26                | 32.5082       | 1.82424      | 0.88412                     |
| Copper, ICP, Dry Ash .....             | 968.08       | 022.03         | 29                | 31.7858       | 2.37753      | 1.09476                     | 27                | 31.8218       | 2.35888      | 0.84993                     |
| Copper, ICP, Wet Ash .....             | 968.08       | 022.05         | 27                | 33.6643       | 2.41284      | 1.01741                     | 27                | 33.6643       | 2.41284      | 1.01741                     |
| Copper, Misc .....                     |              | 022.99         | 4                 | 32.8859       | 3.75756      | 1.19670                     | 4                 | 32.8859       | 3.75756      | 1.19670                     |
| Method Group 022.XX PPM                |              |                | 87                | 32.7067       | 2.48039      | 1.04588                     | 84                | 32.6772       | 2.40505      | 0.93085                     |
| Fluorine, Ion Sel Elect .....          | 975.08       | 023.01         | 1                 | 0.00350       | 0.00071      | 0.00100                     | 1                 | 0.00350       | 0.00071      | 0.00100                     |
| Iron, AA .....                         | 968.08       | 025.01         | 31                | 497.059       | 39.1373      | 9.07555                     | 30                | 496.227       | 39.3123      | 7.91140                     |
| Iron, ICP, Dry Ash .....               | 968.08       | 025.03         | 29                | 484.216       | 32.8542      | 14.0517                     | 26                | 489.080       | 28.7903      | 8.90231                     |
| Iron, ICP, Wet Ash .....               | 968.08       | 025.05         | 23                | 469.745       | 52.9320      | 10.5487                     | 21                | 471.650       | 52.0986      | 7.88667                     |
| Iron, Misc .....                       |              | 025.99         | 3                 | 475.733       | 25.3621      | 14.4739                     | 3                 | 475.733       | 25.3621      | 14.4739                     |
| Method Group 025.XX PPM                |              |                | 86                | 484.679       | 42.1992      | 11.3358                     | 80                | 486.684       | 40.7425      | 8.47305                     |
| Lead, .....                            |              | 026.00         | 2                 | 0.22350       | 0.02516      | 0.00500                     | 2                 | 0.22350       | 0.02516      | 0.00500                     |
| Lead, Misc .....                       |              | 026.99         | 1                 | 0.00000       | 0.00000      | 0.00000                     | 1                 | 0.00000       | 0.00000      | 0.00000                     |
| Method Group 026.XX PPM                |              |                | 3                 | 0.14900       | 0.11705      | 0.00333                     | 3                 | 0.14900       | 0.11705      | 0.00333                     |
| Magnesium, AA .....                    | 968.08       | 027.01         | 27                | 0.23084       | 0.01161      | 0.00557                     | 25                | 0.23010       | 0.01105      | 0.00441                     |
| Magnesium, ICP, Dry Ash .....          | 968.08       | 027.03         | 31                | 0.23380       | 0.00732      | 0.00307                     | 28                | 0.23392       | 0.00711      | 0.00162                     |
| Magnesium, ICP, Wet Ash .....          | 968.08       | 027.05         | 26                | 0.23251       | 0.01590      | 0.00544                     | 24                | 0.23228       | 0.01542      | 0.00368                     |
| Magnesium, Misc. ....                  |              | 027.99         | 2                 | 0.23940       | 0.01136      | 0.00410                     | 2                 | 0.23940       | 0.01136      | 0.00410                     |
| Method Group 027.XX PCT                |              |                | 86                | 0.23261       | 0.01188      | 0.00460                     | 79                | 0.23235       | 0.01154      | 0.00319                     |

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|---------------------------------|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Manganese, AA .....             | 968.08       | 028.01         | 35                | 241.080       | 16.0969      | 4.56026                     | 32                | 241.775       | 15.2662      | 3.42528                     |
| Manganese, ICP, Dry Ash .....   | 968.08       | 028.03         | 32                | 238.006       | 15.5613      | 6.05328                     | 30                | 238.583       | 15.1858      | 4.29267                     |
| Manganese, ICP, Wet Ash .....   | 968.08       | 028.05         | 24                | 249.604       | 11.7515      | 6.14292                     | 23                | 250.150       | 11.1952      | 5.00565                     |
| Manganese, Misc. ....           |              | 028.99         | 4                 | 247.329       | 20.4857      | 5.50775                     | 4                 | 247.329       | 20.4857      | 5.50775                     |
| Method Group 028.XX PPM         |              |                | 95                | 242.461       | 15.7031      | 5.50289                     | 89                | 243.113       | 15.1511      | 4.21966                     |
| Mercury, .....                  |              | 029.00         | 1                 | 0.00300       | 0.00141      | 0.00200                     | 1                 | 0.00300       | 0.00141      | 0.00200                     |
| Phosphorus, Vol .....           | 964.06       | 031.00         | 1                 | 0.77390       | 0.01131      | 0.01600                     | 1                 | 0.77390       | 0.01131      | 0.01600                     |
| Phosphorus, Photometric .....   | 965.17       | 031.01         | 63                | 0.74913       | 0.03453      | 0.01145                     | 59                | 0.74771       | 0.03243      | 0.00918                     |
| Phosphorus, GQMP (2.028) .....  | 964.06       | 031.02         | 6                 | 0.74547       | 0.00867      | 0.00750                     | 6                 | 0.74547       | 0.00867      | 0.00750                     |
| Phosphorus, Autoanalyzer .....  |              | 031.03         | 8                 | 0.73644       | 0.02616      | 0.01138                     | 8                 | 0.73644       | 0.02616      | 0.01138                     |
| Phosphorus, ICP .....           |              | 031.05         | 66                | 0.74117       | 0.03529      | 0.01802                     | 62                | 0.74269       | 0.03391      | 0.01430                     |
| Phosphorus, Hach Method .....   |              | 031.06         | 3                 | 0.73333       | 0.03077      | 0.01333                     | 3                 | 0.73333       | 0.03077      | 0.01333                     |
| Phosphorus, Misc .....          |              | 031.99         | 9                 | 0.74020       | 0.05170      | 0.01138                     | 9                 | 0.74020       | 0.05170      | 0.01138                     |
| Method Group 031.XX PCT         |              |                | 156               | 0.74431       | 0.03503      | 0.01414                     | 148               | 0.74434       | 0.03351      | 0.01164                     |
| Potassium, AA .....             | 975.03       | 032.01         | 22                | 1.12954       | 0.07494      | 0.02501                     | 21                | 1.12928       | 0.07538      | 0.02001                     |
| Potassium, Flame Emission ..... | 956.01       | 032.02         | 6                 | 1.17892       | 0.02859      | 0.01550                     | 6                 | 1.17892       | 0.02859      | 0.01550                     |
| Potassium, ICP .....            |              | 032.05         | 59                | 1.14432       | 0.06133      | 0.02791                     | 54                | 1.14508       | 0.05943      | 0.01774                     |
| Potassium, Misc .....           |              | 032.99         | 2                 | 1.12875       | 0.05224      | 0.02050                     | 2                 | 1.12875       | 0.05224      | 0.02050                     |
| Method Group 032.XX PCT         |              |                | 89                | 1.14265       | 0.06392      | 0.02619                     | 83                | 1.14314       | 0.06290      | 0.01822                     |
| Salt, Sol Cl .....              | 943.01       | 033.00         | 19                | 1.42139       | 0.08536      | 0.02911                     | 19                | 1.42139       | 0.08536      | 0.02911                     |
| Salt, Poten Cl .....            | 969.10       | 033.01         | 34                | 1.46132       | 0.02819      | 0.01285                     | 33                | 1.46212       | 0.02789      | 0.01172                     |
| Salt, Quantab .....             |              | 033.03         | 4                 | 1.40000       | 0.07540      | 0.06000                     | 4                 | 1.40000       | 0.07540      | 0.06000                     |
| Salt, Ion Sel Electrode .....   |              | 033.05         | 1                 | 1.35000       | 0.02828      | 0.04000                     | 1                 | 1.35000       | 0.02828      | 0.04000                     |
| Salt, Misc .....                |              | 033.99         | 5                 | 1.41500       | 0.07307      | 0.04200                     | 5                 | 1.41500       | 0.07307      | 0.04200                     |
| Method Group 033.XX PCT         |              |                | 63                | 1.43994       | 0.06266      | 0.02349                     | 62                | 1.44002       | 0.06308      | 0.02306                     |
| Selenium, Fluor .....           | 969.06       | 034.01         | 2                 | 1.10000       | 0.02944      | 0.01000                     | 2                 | 1.10000       | 0.02944      | 0.01000                     |
| Selenium, AA, Hydride .....     |              | 034.04         | 8                 | 1.01581       | 0.08722      | 0.02388                     | 8                 | 1.01581       | 0.08722      | 0.02388                     |
| Selenium, ICP .....             |              | 034.05         | 4                 | 1.08125       | 0.17594      | 0.06250                     | 4                 | 1.08125       | 0.17594      | 0.06250                     |
| Selenium, Misc .....            |              | 034.99         | 2                 | 1.20000       | 0.13687      | 0.09000                     | 2                 | 1.20000       | 0.13687      | 0.09000                     |
| Method Group 034.XX PPM         |              |                | 16                | 1.06572       | 0.12804      | 0.04006                     | 16                | 1.06572       | 0.12804      | 0.04006                     |
| Sodium, AA .....                |              | 035.00         | 28                | 0.30098       | 0.02623      | 0.01008                     | 27                | 0.30254       | 0.02503      | 0.00880                     |
| Sodium, Ion Sel Electrode ..... |              | 035.01         | 4                 | 0.30886       | 0.00805      | 0.00773                     | 4                 | 0.30886       | 0.00805      | 0.00773                     |
| Sodium, Em Spect .....          | 953.01       | 035.02         | 1                 | 0.30500       | 0.00707      | 0.01000                     | 1                 | 0.30500       | 0.00707      | 0.01000                     |
| Sodium, ICP .....               |              | 035.03         | 52                | 0.29566       | 0.01552      | 0.00881                     | 46                | 0.29518       | 0.01350      | 0.00613                     |
| Sodium, Flame Emission .....    | 956.01       | 035.05         | 10                | 0.29804       | 0.02437      | 0.00956                     | 10                | 0.29804       | 0.02437      | 0.00956                     |
| Sodium, Misc .....              |              | 035.99         | 2                 | 0.28778       | 0.00943      | 0.00355                     | 2                 | 0.28778       | 0.00943      | 0.00355                     |
| Method Group 035.XX PCT         |              |                | 97                | 0.29792       | 0.02001      | 0.00911                     | 90                | 0.29826       | 0.01907      | 0.00737                     |
| Sulfur, (Gravimetric) .....     |              | 036.00         | 2                 | 0.24500       | 0.04041      | 0.00000                     | 2                 | 0.24500       | 0.04041      | 0.00000                     |
| Sulfur, ICP .....               |              | 036.03         | 22                | 0.23732       | 0.02298      | 0.00517                     | 21                | 0.23609       | 0.02261      | 0.00412                     |

Feed Check Sample No. - 200728 Lamb Starter, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 200 Labs - - Pass 2 Results for 200 Labs -

| Method                                 | AOAC<br>18th | Method<br>Code | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups |
|--|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Sulfur, LECO .....                     |              | 036.04         | 3                 | 0.23000       | 0.01095      | 0.00667                     | 3                 | 0.23000       | 0.01095      | 0.00667                     |
| Method Group 036.XX PCT                |              |                | 27                | 0.23707       | 0.02329      | 0.00495                     | 26                | 0.23607       | 0.02301      | 0.00410                     |
| Zinc, AA .....                         | 968.08       | 037.01         | 32                | 489.701       | 27.1102      | 11.2206                     | 30                | 489.978       | 27.4842      | 9.33432                     |
| Zinc, ICP, Dry Ash .....               | 968.08       | 037.03         | 32                | 487.199       | 23.3158      | 9.74681                     | 30                | 489.617       | 20.9049      | 6.88267                     |
| Zinc, ICP, Wet Ash .....               | 968.08       | 037.05         | 26                | 499.833       | 30.9546      | 11.8050                     | 23                | 499.261       | 27.2939      | 5.99261                     |
| Zinc, Misc .....                       |              | 037.99         | 4                 | 494.964       | 38.6569      | 9.62698                     | 4                 | 494.964       | 38.6569      | 9.62698                     |
| Method Group 037.XX PPM                |              |                | 94                | 491.876       | 27.8413      | 10.8127                     | 87                | 492.537       | 26.0464      | 7.61894                     |
| Molybdenum, ICP .....                  |              | 038.00         | 10                | 2.75245       | 0.23925      | 0.11650                     | 10                | 2.75245       | 0.23925      | 0.11650                     |
| Molybdenum, Misc .....                 |              | 038.99         | 2                 | 3.19500       | 0.22650      | 0.03000                     | 2                 | 3.19500       | 0.22650      | 0.03000                     |
| Method Group 038.XX PPM                |              |                | 12                | 2.82621       | 0.28699      | 0.10208                     | 12                | 2.82621       | 0.28699      | 0.10208                     |
| Nickel, AA .....                       |              | 039.01         | 1                 | 3.25000       | 0.07071      | 0.10000                     | 1                 | 3.25000       | 0.07071      | 0.10000                     |
| Nickel, ICP .....                      |              | 039.02         | 4                 | 3.54063       | 0.29911      | 0.29775                     | 4                 | 3.54063       | 0.29911      | 0.29775                     |
| Method Group 039.XX PPM                |              |                | 5                 | 3.48250       | 0.29181      | 0.25820                     | 5                 | 3.48250       | 0.29181      | 0.25820                     |
| Barium, ICP .....                      |              | 040.00         | 1                 | 7.59500       | 0.04950      | 0.07000                     | 1                 | 7.59500       | 0.04950      | 0.07000                     |
| Vanadium, ICP .....                    |              | 041.00         | 3                 | 1.44217       | 0.07893      | 0.10500                     | 3                 | 1.44217       | 0.07893      | 0.10500                     |
| Method Group 041.XX PPM                |              |                | 3                 | 1.44217       | 0.07893      | 0.10500                     | 3                 | 1.44217       | 0.07893      | 0.10500                     |
| Decoquinatate, HPLC .....              |              | 054.01         | 10                | 5.76914       | 0.82610      | 0.12299                     | 10                | 5.76914       | 0.82610      | 0.12299                     |
| Decoquinatate, Misc .....              |              | 054.99         | 1                 | 7.82275       | 0.03783      | 0.05350                     | 1                 | 7.82275       | 0.03783      | 0.05350                     |
| Method Group 054.XX MG/LB              |              |                | 11                | 5.95583       | 0.99129      | 0.11667                     | 11                | 5.95583       | 0.99129      | 0.11667                     |
| Riboflavin, Fluorometric .....         | 970.65       | 104.00         | 1                 | 7.30000       | 0.70711      | 1.00000                     | 1                 | 7.30000       | 0.70711      | 1.00000                     |
| Thiamine, HPLC .....                   |              | 105.00         | 1                 | 2.80500       | 0.17678      | 0.25000                     | 1                 | 2.80500       | 0.17678      | 0.25000                     |
| Vitamin A, Color .....                 | 974.29       | 106.00         | 1                 | 5.15000       | 0.07071      | 0.10000                     | 1                 | 5.15000       | 0.07071      | 0.10000                     |
| Vitamin A, HPLC .....                  |              | 106.02         | 17                | 3.51341       | 1.05814      | 0.31376                     | 16                | 3.51863       | 1.08047      | 0.25713                     |
| Method Group 106.XX KU/LB              |              |                | 18                | 3.60433       | 1.09561      | 0.30189                     | 17                | 3.61459       | 1.11741      | 0.24788                     |
| Vitamin D3, HPLC .....                 |              | 108.02         | 2                 | 1.31750       | 0.48280      | 0.04500                     | 2                 | 1.31750       | 0.48280      | 0.04500                     |
| Method Group 108.XX KU/LB              |              |                | 2                 | 1.31750       | 0.48280      | 0.04500                     | 2                 | 1.31750       | 0.48280      | 0.04500                     |
| Vitamin E, HPLC .....                  |              | 109.02         | 10                | 108.331       | 28.6537      | 3.58890                     | 10                | 108.331       | 28.6537      | 3.58890                     |
| Method Group 109.XX MG/KG              |              |                | 10                | 108.331       | 28.6537      | 3.58890                     | 10                | 108.331       | 28.6537      | 3.58890                     |
| Alanine, Post-col Ninhydrin Der .....  | 994.12       | 120.00         | 10                | 0.96782       | 0.04883      | 0.01968                     | 9                 | 0.97202       | 0.04673      | 0.01076                     |
| Alanine, Pre-col OPA Der .....         |              | 120.01         | 1                 | 1.00500       | 0.00707      | 0.01000                     | 1                 | 1.00500       | 0.00707      | 0.01000                     |
| Alanine, Pre-col AQC Der .....         |              | 120.05         | 1                 | 1.04500       | 0.00707      | 0.01000                     | 1                 | 1.04500       | 0.00707      | 0.01000                     |
| Method Group 120.XX PCT                |              |                | 12                | 0.97735       | 0.05017      | 0.01807                     | 11                | 0.98165       | 0.04781      | 0.01062                     |
| Arginine, Post-col Ninhydrin Der ..... | 994.12       | 121.00         | 11                | 1.33470       | 0.08428      | 0.05278                     | 10                | 1.32432       | 0.07142      | 0.03416                     |
| Arginine, Pre-col OPA Der .....        |              | 121.01         | 1                 | 1.00500       | 0.00707      | 0.01000                     | 1                 | 1.00500       | 0.00707      | 0.01000                     |
| Arginine, Pre-col AQC Der .....        |              | 121.05         | 1                 | 1.50500       | 0.03536      | 0.05000                     | 1                 | 1.50500       | 0.03536      | 0.05000                     |
| Method Group 121.XX PCT                |              |                | 13                | 1.32244       | 0.12992      | 0.04928                     | 12                | 1.31277       | 0.12584      | 0.03347                     |
| Aspartic, Post-col Ninhydrin Der ..... | 994.12       | 122.00         | 9                 | 2.02631       | 0.09157      | 0.04928                     | 8                 | 2.03897       | 0.08059      | 0.02919                     |
| Aspartic, Pre-col OPA Der .....        |              | 122.01         | 1                 | 2.05500       | 0.00707      | 0.01000                     | 1                 | 2.05500       | 0.00707      | 0.01000                     |
| Aspartic, Pre-col AQC Der .....        |              | 122.05         | 1                 | 2.16500       | 0.14849      | 0.21000                     | 1                 | 2.16500       | 0.14849      | 0.21000                     |

- Pass 1 Results for 200 Labs - - Pass 2 Results for 200 Labs -

| Method                                       | AOAC<br>18th | Method<br>Code | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups |
|--|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Method Group 122.XX PCT                      |              |                | 11                | 2.04152       | 0.09751      | 0.06032                     | 10                | 2.05318       | 0.08819      | 0.04535                     |
| Cysteine/Cystine, PAO Post-col Ninhydrin Der | 994.12       | 124.00         | 9                 | 0.33431       | 0.04227      | 0.01897                     | 8                 | 0.32684       | 0.03668      | 0.01309                     |
| Cysteine/Cystine, PAO Pre-col OPA Der        |              | 124.01         | 1                 | 0.32500       | 0.00707      | 0.01000                     | 1                 | 0.32500       | 0.00707      | 0.01000                     |
| Method Group 124.XX PCT                      |              |                | 10                | 0.33338       | 0.04012      | 0.01807                     | 9                 | 0.32664       | 0.03450      | 0.01274                     |
| Glutamic, Post-col Ninhydrin Der             | 994.12       | 125.00         | 10                | 3.42926       | 0.16378      | 0.06198                     | 9                 | 3.44862       | 0.15226      | 0.03442                     |
| Glutamic, Pre-col OPA Der                    |              | 125.01         | 1                 | 3.63000       | 0.01414      | 0.02000                     | 1                 | 3.63000       | 0.01414      | 0.02000                     |
| Glutamic, Pre-col AQC Der                    |              | 125.05         | 1                 | 3.77500       | 0.19092      | 0.27000                     | 1                 | 3.77500       | 0.19092      | 0.27000                     |
| Method Group 125.XX PCT                      |              |                | 12                | 3.47480       | 0.18838      | 0.07582                     | 11                | 3.49478       | 0.17765      | 0.05453                     |
| Glycine, Post-col Ninhydrin Der              | 994.12       | 126.00         | 9                 | 0.88297       | 0.02490      | 0.01034                     | 8                 | 0.87922       | 0.02267      | 0.00664                     |
| Glycine, Pre-col OPA Der                     |              | 126.01         | 1                 | 0.91500       | 0.00707      | 0.01000                     | 1                 | 0.91500       | 0.00707      | 0.01000                     |
| Glycine, Pre-col AQC Der                     |              | 126.05         | 1                 | 0.94500       | 0.00707      | 0.01000                     | 1                 | 0.94500       | 0.00707      | 0.01000                     |
| Method Group 126.XX PCT                      |              |                | 11                | 0.89152       | 0.02990      | 0.01028                     | 10                | 0.88937       | 0.02988      | 0.00731                     |
| Histidine, Post-col Ninhydrin Der            | 994.12       | 127.00         | 11                | 0.54045       | 0.04968      | 0.02676                     | 11                | 0.54045       | 0.04968      | 0.02676                     |
| Histidine, Pre-col OPA Der                   |              | 127.01         | 1                 | 0.51000       | 0.00000      | 0.00000                     | 1                 | 0.51000       | 0.00000      | 0.00000                     |
| Histidine, Pre-col AQC Der                   |              | 127.05         | 1                 | 0.53500       | 0.00707      | 0.01000                     | 1                 | 0.53500       | 0.00707      | 0.01000                     |
| Method Group 127.XX PCT                      |              |                | 13                | 0.53768       | 0.04630      | 0.02342                     | 13                | 0.53768       | 0.04630      | 0.02342                     |
| Isoleucine, Post-col Ninhydrin Der           | 994.12       | 128.00         | 11                | 0.81220       | 0.05665      | 0.03341                     | 10                | 0.81036       | 0.05216      | 0.01945                     |
| Isoleucine, Pre-col OPA Der                  |              | 128.01         | 1                 | 0.79500       | 0.00707      | 0.01000                     | 1                 | 0.79500       | 0.00707      | 0.01000                     |
| Isoleucine, Pre-col AQC Der                  |              | 128.05         | 1                 | 0.89000       | 0.00000      | 0.00000                     | 1                 | 0.89000       | 0.00000      | 0.00000                     |
| Method Group 128.XX PCT                      |              |                | 13                | 0.81686       | 0.05642      | 0.02904                     | 12                | 0.81572       | 0.05284      | 0.01704                     |
| Leucine, Post-col Ninhydrin Der              | 994.12       | 129.00         | 10                | 1.52009       | 0.06353      | 0.02445                     | 9                 | 1.52287       | 0.06138      | 0.01050                     |
| Leucine, Pre-col OPA Der                     |              | 129.01         | 1                 | 1.58500       | 0.00707      | 0.01000                     | 1                 | 1.58500       | 0.00707      | 0.01000                     |
| Leucine, Pre-col AQC Der                     |              | 129.05         | 1                 | 1.64000       | 0.00000      | 0.00000                     | 1                 | 1.64000       | 0.00000      | 0.00000                     |
| Method Group 129.XX PCT                      |              |                | 12                | 1.53549       | 0.06860      | 0.02121                     | 11                | 1.53917       | 0.06669      | 0.00950                     |
| L-Lysine, Post-col Ninhydrin Der             | 994.12       | 130.00         | 11                | 1.09984       | 0.06204      | 0.04122                     | 10                | 1.09247       | 0.05163      | 0.02624                     |
| L-Lysine, Pre-col OPA Der                    |              | 130.01         | 1                 | 1.15500       | 0.00707      | 0.01000                     | 1                 | 1.15500       | 0.00707      | 0.01000                     |
| L-Lysine, Pre-col AQC Der                    |              | 130.05         | 1                 | 1.14000       | 0.01414      | 0.02000                     | 1                 | 1.14000       | 0.01414      | 0.02000                     |
| Method Group 130.XX PCT                      |              |                | 13                | 1.10717       | 0.05966      | 0.03718                     | 12                | 1.10164       | 0.05159      | 0.02437                     |
| Methionine, PAO Post-col Ninhydrin Der       | 994.12       | 131.00         | 10                | 0.30327       | 0.01388      | 0.01394                     | 10                | 0.30327       | 0.01388      | 0.01394                     |
| Methionine, PAO Pre-col OPA Der              |              | 131.01         | 1                 | 0.31000       | 0.00000      | 0.00000                     | 1                 | 0.31000       | 0.00000      | 0.00000                     |
| Methionine, PAO Pre-col AQC Der              |              | 131.05         | 1                 | 0.32500       | 0.00707      | 0.01000                     | 1                 | 0.32500       | 0.00707      | 0.01000                     |
| Method Group 131.XX PCT                      |              |                | 12                | 0.30564       | 0.01415      | 0.01245                     | 12                | 0.30564       | 0.01415      | 0.01245                     |
| Phenylalanine, Post-col Ninhydrin Der        | 994.12       | 132.00         | 9                 | 0.93904       | 0.01948      | 0.01710                     | 9                 | 0.93904       | 0.01948      | 0.01710                     |
| Phenylalanine, Pre-col OPA Der               |              | 132.01         | 1                 | 0.98500       | 0.00707      | 0.01000                     | 1                 | 0.98500       | 0.00707      | 0.01000                     |
| Phenylalanine, Pre-col AQC Der               |              | 132.05         | 1                 | 0.98500       | 0.00707      | 0.01000                     | 1                 | 0.98500       | 0.00707      | 0.01000                     |
| Method Group 132.XX PCT                      |              |                | 11                | 0.94740       | 0.02532      | 0.01581                     | 11                | 0.94740       | 0.02532      | 0.01581                     |
| Proline, Post-col Ninhydrin Der              | 994.12       | 133.00         | 9                 | 1.14403       | 0.06437      | 0.03654                     | 9                 | 1.14403       | 0.06437      | 0.03654                     |
| Proline, Pre-col AQC Der                     |              | 133.05         | 1                 | 1.22500       | 0.14849      | 0.21000                     | 1                 | 1.22500       | 0.14849      | 0.21000                     |
| Method Group 133.XX PCT                      |              |                | 10                | 1.15213       | 0.07409      | 0.05389                     | 10                | 1.15213       | 0.07409      | 0.05389                     |

Feed Check Sample No. - 200728 Lamb Starter, Medicated  
 Association of American Feed Control Officials

- Pass 1 Results for 200 Labs - - Pass 2 Results for 200 Labs -

| Method                                  | AOAC<br>18th | Method<br>Code | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups | No.<br>of<br>Labs | Grand<br>Avg. | Std.<br>Dev. | Average<br>Range<br>of Dups |
|---|--------------|----------------|-------------------|---------------|--------------|-----------------------------|-------------------|---------------|--------------|-----------------------------|
| Serine, Post-col Ninhydrin Der .....    | 994.12       | 134.00         | 10                | 0.90350       | 0.07675      | 0.02803                     | 9                 | 0.90666       | 0.07733      | 0.01670                     |
| Serine, Pre-col OPA Der .....           |              | 134.01         | 1                 | 0.94500       | 0.00707      | 0.01000                     | 1                 | 0.94500       | 0.00707      | 0.01000                     |
| Serine, Pre-col AQC Der .....           |              | 134.05         | 1                 | 1.02500       | 0.00707      | 0.01000                     | 1                 | 1.02500       | 0.00707      | 0.01000                     |
| Method Group 134.XX PCT                 |              |                | 12                | 0.91708       | 0.07817      | 0.02502                     | 11                | 0.92090       | 0.07815      | 0.01548                     |
| Threonine, Post-col Ninhydrin Der ..... | 994.12       | 135.00         | 8                 | 0.76919       | 0.01178      | 0.00659                     | 8                 | 0.76919       | 0.01178      | 0.00659                     |
| Threonine, Pre-col OPA Der .....        |              | 135.01         | 1                 | 0.80500       | 0.00707      | 0.01000                     | 1                 | 0.80500       | 0.00707      | 0.01000                     |
| Method Group 135.XX PCT                 |              |                | 9                 | 0.77317       | 0.01611      | 0.00697                     | 9                 | 0.77317       | 0.01611      | 0.00697                     |
| Tryptophan, Alka-Hydrol Post-col Ninhyd | 988.15       | 136.00         | 2                 | 0.26075       | 0.01150      | 0.00950                     | 2                 | 0.26075       | 0.01150      | 0.00950                     |
| Tryptophan, Alka-Hydrol Rev Phase LC UV |              | 136.01         | 4                 | 0.27023       | 0.02936      | 0.01090                     | 4                 | 0.27023       | 0.02936      | 0.01090                     |
| Tryptophan, Misc .....                  |              | 136.99         | 1                 | 0.22500       | 0.00707      | 0.01000                     | 1                 | 0.22500       | 0.00707      | 0.01000                     |
| Method Group 136.XX PCT                 |              |                | 7                 | 0.26106       | 0.02739      | 0.01037                     | 7                 | 0.26106       | 0.02739      | 0.01037                     |
| Tyrosine, Post-col Ninhydrin Der .....  | 994.12       | 137.00         | 7                 | 0.66499       | 0.05529      | 0.02759                     | 7                 | 0.66499       | 0.05529      | 0.02759                     |
| Tyrosine, Pre-col OPA Der .....         |              | 137.01         | 1                 | 0.62000       | 0.00000      | 0.00000                     | 1                 | 0.62000       | 0.00000      | 0.00000                     |
| Tyrosine, Pre-col AQC Der .....         |              | 137.05         | 1                 | 0.59000       | 0.08485      | 0.12000                     | 1                 | 0.59000       | 0.08485      | 0.12000                     |
| Method Group 137.XX PCT                 |              |                | 9                 | 0.65166       | 0.05893      | 0.03479                     | 9                 | 0.65166       | 0.05893      | 0.03479                     |
| Valine, Post-col Ninhydrin Der .....    | 994.12       | 138.00         | 11                | 0.94459       | 0.06680      | 0.04668                     | 10                | 0.94035       | 0.06024      | 0.03095                     |
| Valine, Pre-col OPA Der .....           |              | 138.01         | 1                 | 0.97500       | 0.00707      | 0.01000                     | 1                 | 0.97500       | 0.00707      | 0.01000                     |
| Valine, Pre-col AQC Der .....           |              | 138.05         | 1                 | 1.01500       | 0.00707      | 0.01000                     | 1                 | 1.01500       | 0.00707      | 0.01000                     |
| Method Group 138.XX PCT                 |              |                | 13                | 0.95234       | 0.06450      | 0.04104                     | 12                | 0.94945       | 0.05920      | 0.02746                     |
| Taurine, Post-col Ninhydrin Der .....   | 994.12       | 139.00         | 1                 | 0.05000       | 0.00000      | 0.00000                     | 1                 | 0.05000       | 0.00000      | 0.00000                     |
| Aflatoxin, Neogen Vera-Tox .....        |              | 300.01         | 2                 | 0.85000       | 0.26458      | 0.20000                     | 2                 | 0.85000       | 0.26458      | 0.20000                     |
| Method Group 300.XX PPB                 |              |                | 2                 | 0.85000       | 0.26458      | 0.20000                     | 2                 | 0.85000       | 0.26458      | 0.20000                     |

Laboratory Averages & Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 000.99 | --    | --  | Method 001.07 | --    | --  | Method 001.99 | --    | --  | Method 002.02 | --    | --  | Method 002.05 | --    |
| 043 | 20.450        | .87   | 413 | 9.0000        | .60   | 672 | 9.4700        | .21   | Avg | 21.155        |       | 651 | 20.371        | -1.01 |
| Avg | 10.673        |       | 177 | 9.1850        | .59   | 505 | 9.4850        | .14   | 152 | 21.005        | -.27  | 622 | 20.371        | -1.02 |
| 265 | 0.8950        | -.87  | 004 | 9.0250        | .56   | 676 | 9.4225        | .04   | 297 | 20.980        | -.31  | 658 | 20.359        | -1.08 |
|     |               |       | 098 | 9.0800        | .55   | Avg | 9.2371        |       | 033 | 20.965        | -.42  | 620 | 20.353        | -1.09 |
| --  | Method 001.00 | --    | 089 | 9.1000        | .33   | 656 | 9.3900        | -.08  | 042 | 20.850        | -.55  | 722 | 20.302        | -1.29 |
| 504 | 11.755 S      | 5.40  | 679 | 9.0000        | .30   | 619 | 9.3000        | -.16  | 669 | 20.825        | -.61  | 178 | 20.200        | -1.67 |
| 509 | 10.890 S      | 3.62  | 049 | 9.0350        | .21   | 357 | 9.3300        | -.20  | 043 | 20.635        | -.93  |     |               |       |
| 001 | 9.8850        | 1.57  | 140 | 9.0250        | .20   | 631 | 9.2250        | -.27  | 169 | 20.590        | -1.01 | --  | Method 002.06 | --    |
| 309 | 9.3700        | .51   | 669 | 9.0000        | .12   | 615 | 9.1650        | -.41  | 187 | 20.510        | -1.16 | 417 | 22.245 s      | 3.75  |
| Avg | 9.1180        |       | 640 | 9.0250        | .12   | 729 | 9.0600        | -.55  |     |               |       | 645 | 21.850        | 2.40  |
| 169 | 8.9500        | -.35  | 671 | 8.9900        | .06   | 536 | 8.5450 R      | -1.46 | --  | Method 002.03 | --    | 541 | 21.795        | 2.23  |
| 029 | 8.8250        | -.60  | Avg | 8.9889        |       | 541 | 8.3100        | -1.70 | 265 | 21.400        | .71   | 511 | 21.795        | 2.20  |
| 027 | 8.5600        | -1.14 | 187 | 8.9800        | -.04  | 560 | 8.1150        | -2.00 |     |               |       | 571 | 21.652        | 1.71  |
|     |               |       | 083 | 8.9500        | -.19  | 630 | 5.2200 s      | -6.46 | --  | Method 002.04 | --    | 615 | 21.495 R      | 1.69  |
| --  | Method 001.03 | --    | 581 | 8.9050        | -.27  |     |               |       | 405 | 22.220        | 1.73  | 011 | 21.620        | 1.67  |
| 567 | 9.3000        | 1.11  | 353 | 8.8800        | -.37  | --  | Method 002.00 | --    | 591 | 21.625        | .69   | 573 | 21.628        | 1.65  |
| 688 | 9.2500        | .92   | 171 | 8.8600        | -.39  | 015 | 21.240        | 1.00  | Avg | 21.228        |       | 014 | 21.438 R      | 1.56  |
| Avg | 9.2375        |       | 015 | 8.8650        | -.39  | 679 | 21.015        | .32   | 504 | 21.100        | -.22  | 100 | 21.595        | 1.55  |
| 663 | 9.2150        | -.41  | 693 | 8.8300        | -.55  | Avg | 20.937        |       | 509 | 21.050        | -.32  | 692 | 21.500        | 1.37  |
| 686 | 9.1850        | -1.12 | 414 | 8.8800        | -.58  | 199 | 20.555        | -1.18 | 596 | 20.700        | -.93  | 529 | 21.540        | 1.33  |
|     |               |       | 588 | 8.7950        | -.60  |     |               |       | 018 | 20.675        | -1.00 | 616 | 21.520        | 1.31  |
| --  | Method 001.05 | --    | 074 | 8.7450        | -.74  | --  | Method 002.01 | --    |     |               |       | 098 | 21.500        | 1.24  |
| 610 | 9.1450        | .71   | 616 | 8.7400        | -.74  | 666 | 21.610        | 2.08  | --  | Method 002.05 | --    | 672 | 21.500        | 1.24  |
|     |               |       | 038 | 8.7400        | -.74  | 607 | 21.203        | .83   | 305 | 21.330 R      | 2.61  | 619 | 21.500        | 1.24  |
| --  | Method 001.07 | --    | 689 | 8.7000        | -.86  | Avg | 20.931        |       | 689 | 21.100        | 1.66  | 168 | 21.495        | 1.19  |
| 142 | 10.100 s      | 3.34  | 297 | 8.6400        | -1.05 | 652 | 20.900        | -.09  | 039 | 21.099        | 1.62  | 670 | 21.455        | 1.03  |
| 559 | 9.5550        | 1.70  | 609 | 8.6000        | -1.20 | 672 | 20.880        | -.16  | 633 | 21.005        | 1.28  | 202 | 21.390        | 1.02  |
| 199 | 9.4950        | 1.52  | 675 | 8.5850        | -1.24 | 710 | 20.880        | -.16  | 140 | 20.905        | 1.05  | 363 | 21.435        | 1.02  |
| 550 | 9.4875        | 1.50  | 045 | 8.4400        | -1.65 | 656 | 20.750        | -.59  | 083 | 20.840        | .74   | 129 | 21.360        | 1.01  |
| 129 | 9.4750        | 1.49  | 366 | 8.3500        | -1.92 | 723 | 20.710        | -.68  | 663 | 20.840        | .73   | 647 | 21.435        | .99   |
| 035 | 9.3950        | 1.22  | 307 | 8.3300 R      | -2.09 | 653 | 20.515        | -1.28 | 552 | 20.730        | .46   | 171 | 21.400        | .91   |
| 278 | 9.3700        | 1.16  | 345 | 8.0200        | -2.90 | 714 | 20.487 R      | -1.46 | 179 | 20.721        | .41   | 013 | 21.410        | .88   |
| 599 | 9.2850        | 1.09  | 591 | 6.9900 s      | -5.98 |     |               |       | 596 | 20.700        | .40   | 693 | 21.395        | .86   |
| 607 | 9.3136        | .97   |     |               |       | --  | Method 002.02 | --    | 350 | 20.746        | .34   | 037 | 21.390        | .86   |
| 178 | 9.2500        | .90   | --  | Method 001.99 | --    | 639 | 22.220        | 1.91  | 621 | 20.690        | .14   | 671 | 21.395        | .83   |
| 639 | 9.2800        | .87   | 405 | 10.495 S      | 1.69  | 536 | 21.960        | 1.51  | 354 | 20.680        | .13   | 074 | 21.345        | .80   |
| 590 | 9.1850        | .81   | 665 | 10.450 S      | 1.62  | 307 | 21.850        | 1.39  | Avg | 20.651        |       | 345 | 21.375        | .80   |
| 048 | 9.2400        | .79   | 305 | 10.110        | 1.10  | 048 | 21.400        | .57   | 177 | 20.585        | -.27  | 300 | 21.355        | .70   |
| 571 | 9.2200        | .71   | 096 | 9.7000        | .49   | 712 | 21.220        | .26   | 194 | 20.430        | -.80  | 674 | 21.185        | .68   |

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



Laboratory Averages & Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 002.06 | --    | --  | Method 002.06 | --    | --  | Method 002.06 | --    | --  | Method 002.11 | --    | --  | Method 003.00 | --    |
| 106 | 21.335        | .63   | 065 | 21.065        | -.31  | 242 | 20.720        | -1.49 | 588 | 21.960        | 1.40  | 048 | 4.8000        | .47   |
| 003 | 21.300        | .63   | 027 | 21.070        | -.35  | 309 | 20.735        | -1.53 | 724 | 21.905        | 1.33  | 033 | 4.8750        | .46   |
| 610 | 21.300        | .61   | 353 | 21.065        | -.38  | 596 | 20.700        | -1.60 | 599 | 21.750        | 1.05  | 039 | 4.8475        | .33   |
| 510 | 21.300        | .61   | 567 | 21.050        | -.40  | 229 | 20.460        | -2.39 | 628 | 21.672        | .98   | 164 | 4.8200        | .18   |
| 175 | 21.300        | .61   | 687 | 21.050        | -.40  | 539 | 20.450        | -2.42 | 688 | 21.400        | .57   | 129 | 4.8050        | .16   |
| 164 | 21.325        | .59   | 413 | 21.050        | -.40  | 142 | 20.450        | -2.42 | 631 | 21.405        | .48   | Avg | 4.7816        |       |
| 029 | 21.320        | .59   | 358 | 21.055        | -.41  | 119 | 20.345        | -2.78 | 672 | 21.270        | .38   | 265 | 4.7200        | -.29  |
| 682 | 21.320        | .57   | 038 | 21.025        | -.45  | 673 | 20.250 s      | -3.11 | 567 | 21.300        | .34   | 106 | 4.7550        | -.37  |
| 121 | 21.295        | .51   | 026 | 21.020        | -.48  | 454 | 20.175 s      | -3.37 | 640 | 21.180        | .12   | 035 | 4.7050        | -.37  |
| 035 | 21.300        | .51   | 021 | 21.005        | -.52  | 686 | 20.132 s      | -3.51 | Avg | 21.209        |       | 307 | 4.7000        | -.38  |
| 676 | 21.200        | .47   | 357 | 21.010        | -.52  |     |               |       | 665 | 20.955        | -.27  | 596 | 4.7000        | -.59  |
| 006 | 21.240        | .44   | 045 | 21.000        | -.53  | --  | Method 002.07 | --    | 011 | 20.950        | -.29  | 187 | 4.6450        | -.64  |
| 108 | 21.275        | .43   | 049 | 21.015        | -.54  | 028 | 20.925        | .71   | 178 | 20.800        | -.52  | 615 | 4.5950        | -.86  |
| 001 | 21.220        | .38   | 019 | 21.050        | -.55  |     |               |       | 690 | 20.800        | -.52  | 194 | 4.5900        | -.88  |
| 205 | 21.175        | .37   | 590 | 21.100        | -.55  | --  | Method 002.08 | --    | 553 | 20.480        | -1.09 | 353 | 4.5450        | -1.12 |
| 185 | 21.225        | .33   | 294 | 20.985        | -.58  | 062 | 21.066        | 1.57  | 140 | 20.310        | -1.34 | 152 | 4.5000        | -1.30 |
| 042 | 21.220        | .33   | 354 | 20.980        | -.60  | 414 | 21.000        | .82   | 297 | 19.735 s      | -2.28 | 026 | 4.4250        | -1.66 |
| 609 | 21.240        | .31   | 138 | 20.980        | -.61  | Avg | 20.950        |       |     |               |       | 616 | 4.2650        | -2.39 |
| 650 | 21.220        | .28   | 017 | 21.005        | -.61  | 610 | 20.950        | -.52  | --  | Method 002.99 | --    | 142 | 3.9500 s      | -3.89 |
| 051 | 21.185        | .28   | 179 | 20.975        | -.63  | 208 | 20.950        | -.52  | 724 | 21.955        | 1.60  | 509 | 3.6050 s      | -5.42 |
| 589 | 21.225        | .27   | 096 | 21.005        | -.65  | 563 | 20.885        | -.73  | 599 | 21.520        | .86   |     |               |       |
| 009 | 21.225        | .25   | 598 | 21.045        | -.65  | 160 | 20.850        | -1.13 | 725 | 21.120        | .26   | --  | Method 003.01 | --    |
| 144 | 21.215        | .23   | 646 | 20.945        | -.72  |     |               |       | 640 | 21.160        | .18   | 504 | 2.9200 S      | .00   |
| 504 | 21.194        | .16   | 190 | 20.950        | -.72  | --  | Method 002.10 | --    | Avg | 21.061        |       |     |               |       |
| 520 | 21.195        | .14   | 660 | 20.940        | -.74  | 727 | 21.560        | 2.00  | 630 | 20.890        | -.35  | --  | Method 003.06 | --    |
| 726 | 21.195        | .14   | 199 | 20.940        | -.76  | 629 | 21.280        | 1.07  | 655 | 20.385        | -1.22 | 640 | 5.8500 s      | 7.73  |
| 574 | 21.170        | .12   | 550 | 20.935        | -.77  | Avg | 20.956        |       | 643 | 20.400        | -1.22 | 621 | 5.5250 s      | 5.52  |
| 263 | 21.178        | .12   | 233 | 20.905        | -.86  | 688 | 20.950        | -.17  |     |               |       | 074 | 4.9350 R      | 2.15  |
| 034 | 21.175        | .07   | 208 | 21.000        | -.87  | 675 | 20.850        | -.36  | --  | Method 003.00 | --    | 009 | 4.9850        | 2.07  |
| 298 | 21.160        | .04   | 505 | 20.900        | -.93  | 628 | 20.825        | -.44  | 015 | 5.2250        | 2.04  | 588 | 5.0100        | 2.03  |
| Avg | 21.154        |       | 004 | 20.875        | -1.01 | 546 | 20.785        | -.59  | 309 | 5.1650        | 1.79  | 688 | 4.8500        | 1.00  |
| 626 | 21.150        | -.01  | 122 | 20.860        | -1.02 | 596 | 20.700        | -.91  | 179 | 4.9975        | .99   | 689 | 4.8500        | 1.00  |
| 160 | 21.145        | -.06  | 010 | 20.825        | -1.13 | 619 | 20.700        | -.91  | 676 | 4.9540        | .84   | 229 | 4.7800        | .83   |
| 089 | 21.130        | -.08  | 226 | 20.850        | -1.16 | 631 | 19.465 s      | -4.95 | 726 | 4.9500        | .82   | 199 | 4.7350        | .19   |
| 407 | 21.130        | -.08  | 110 | 20.805        | -1.23 | 729 | 18.810 s      | -7.09 | 563 | 4.9500        | .78   | 511 | 4.7200        | .15   |
| 366 | 21.150        | -.17  | 414 | 20.785        | -1.37 |     |               |       | 354 | 4.9250        | .66   | 122 | 4.7300        | .13   |
| 278 | 21.100        | -.19  | 559 | 20.765        | -1.37 |     |               |       | 175 | 4.9100        | .63   | Avg | 4.7106        |       |
| 512 | 21.095        | -.24  | 720 | 20.745        | -1.42 |     |               |       | 017 | 4.8950        | .52   | 669 | 4.6650        | -.39  |
| 588 | 21.075        | -.28  | 148 | 20.735        | -1.44 |     |               |       | 190 | 4.8400        | .49   | 552 | 4.7000        | -.48  |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 003.06 | --    | --  | Method 003.09 | --    | --  | Method 003.10 | --    | --  | Method 003.14 | --    | --  | Method 004.00 | --    |
| 148 | 4.6200        | -.62  | 013 | 4.2700        | -2.16 | 144 | 4.4000        | -1.10 | 529 | 5.0400        | 1.74  | 563 | 5.4750        | .86   |
| 294 | 4.6150        | -.66  | 714 | 3.9410 s      | -3.59 | 108 | 4.1600 R      | -2.34 | 049 | 4.9600        | 1.49  | 647 | 5.4500        | .78   |
| 581 | 4.6550        | -.69  | 727 | 4.1050 s      | -3.64 | 679 | 4.0550        | -2.69 | 019 | 4.8650        | 1.14  | 504 | 5.4400        | .76   |
| 682 | 4.6000        | -.75  |     |               |       | 609 | 4.0350        | -2.79 | 414 | 4.6300        | .60   | 354 | 5.4300        | .72   |
| 559 | 4.6000        | -.85  | --  | Method 003.10 | --    | 591 | 3.6100 s      | -4.81 | 110 | 4.6550        | .50   | 208 | 5.4250        | .71   |
| 684 | 4.5850        | -.88  | 720 | 5.7300 s      | 5.07  |     |               |       | 413 | 4.6500        | .50   | 015 | 5.4250        | .70   |
| 185 | 4.5600        | -1.03 | 520 | 5.3850 s      | 3.73  | --  | Method 003.11 | --    | 550 | 4.5925        | .39   | 169 | 5.3650        | .51   |
| 169 | 4.5300        | -1.23 | 623 | 5.0845        | 2.07  | 553 | 4.9100        | 2.22  | 185 | 4.5350        | .13   | 199 | 5.3400        | .44   |
| 647 | 4.6350 R      | -1.54 | 639 | 5.0700        | 2.00  | 140 | 4.7150        | 1.51  | Avg | 4.4968        |       | 194 | 5.2700        | .22   |
| 297 | 3.3950 s      | -8.93 | 620 | 4.8960        | 1.21  | 567 | 4.5300        | .82   | 175 | 4.4600        | -.27  | 298 | 5.2100        | .05   |
|     |               |       | 160 | 4.8800        | 1.12  | 665 | 4.4600        | .55   | 567 | 4.3500        | -.48  | Avg | 5.1987        |       |
| --  | Method 003.09 | --    | 607 | 4.8317        | .90   | 640 | 4.4600        | .55   | 144 | 4.2450        | -.78  | 034 | 5.0600        | -.43  |
| 505 | 5.1000        | 1.74  | 045 | 4.8000        | .88   | 011 | 4.3500        | .23   | 021 | 4.1900        | -.96  | 175 | 5.1350        | -.43  |
| 029 | 5.0200        | 1.37  | 672 | 4.8000        | .75   | 628 | 4.3360        | .09   | 686 | 4.1500        | -1.08 | 048 | 5.0500        | -.48  |
| 510 | 5.0000        | 1.24  | 233 | 4.7650        | .59   | Avg | 4.3121        |       | 407 | 4.0800        | -1.34 | 596 | 5.0500        | -.48  |
| 226 | 5.0000        | 1.16  | 598 | 4.7350        | .47   | 631 | 4.2750        | -.15  | 278 | 4.0500        | -1.46 | 042 | 4.9950        | -.64  |
| 140 | 4.9850        | 1.11  | 366 | 4.7000        | .29   | 297 | 4.2500        | -.23  |     |               |       | 171 | 4.9650        | -.73  |
| 350 | 4.9600        | .98   | 034 | 4.6850        | .25   | 599 | 4.2000        | -.42  | --  | Method 003.99 | --    | 510 | 4.9000        | -.92  |
| 358 | 4.8900        | .66   | 693 | 4.6800        | .20   | 178 | 4.1500        | -.63  | 630 | 6.3900 S      | 4.20  | 039 | 4.8918        | -.95  |
| 633 | 4.8491        | .52   | 100 | 4.6600        | .14   | 688 | 4.1000        | -.79  | 724 | 5.4300        | 1.79  | 009 | 4.8900        | -.96  |
| 098 | 4.8450        | .50   | Avg | 4.6375        |       | 672 | 4.0750        | -.88  | 417 | 5.2150 R      | 1.31  | 726 | 4.8300        | -1.15 |
| 038 | 4.8300        | .41   | 062 | 4.6310        | -.05  | 690 | 3.9500        | -1.35 | 655 | 4.9550        | .60   | 190 | 4.6800        | -1.60 |
| 673 | 4.7500        | .23   | 619 | 4.6150        | -.11  | 588 | 3.9200        | -1.45 | 631 | 4.9300        | .53   | 226 | 4.5500 R      | -2.06 |
| 590 | 4.7750        | .19   | 202 | 4.6150        | -.11  | 724 | 2.4250 s      | -7.00 | 671 | 4.8600        | .36   | 666 | 4.4150        | -2.42 |
| 354 | 4.7500        | .18   | 345 | 4.6250        | -.13  |     |               |       | Avg | 4.7181        |       | 353 | 3.6550 s      | -4.77 |
| 027 | 4.7600        | .12   | 178 | 4.6000        | -.17  | --  | Method 003.12 | --    | 728 | 4.5500        | -.42  |     |               |       |
| Avg | 4.7417        |       | 363 | 4.6050        | -.19  | 670 | 4.9850        | 1.17  | 725 | 4.5000        | -.55  | --  | Method 004.01 | --    |
| 651 | 4.7415        | -.01  | 651 | 4.6240        | -.20  | 414 | 4.9100        | .99   | 536 | 4.4350        | -.73  | 366 | 7.1000 S      | 1.66  |
| 656 | 4.7200        | -.13  | 573 | 4.5970        | -.20  | Avg | 4.7570        |       | 710 | 4.0850        | -1.59 | 693 | 6.5350        | .71   |
| 675 | 4.7400        | -.13  | 599 | 4.6350        | -.25  | 171 | 4.7500        | -.10  | 546 | 2.8050 s      | -4.80 | Avg | 6.5350        |       |
| 004 | 4.7250        | -.21  | 629 | 4.5800        | -.28  | 357 | 4.6500        | -.58  |     |               |       | --  | Method 004.00 | --    |
| 263 | 4.6343        | -.50  | 119 | 4.5650        | -.34  | 628 | 4.4900        | -1.34 |     |               |       | 345 | 6.5000 s      | 4.02  |
| 653 | 4.6150        | -.57  | 089 | 4.5600        | -.36  |     |               |       |     |               |       | 265 | 6.0950 R      | 2.82  |
| 722 | 4.5735        | -.76  | 242 | 4.5500        | -.41  | --  | Method 003.13 | --    |     |               |       | 164 | 5.8000        | 1.88  |
| 001 | 4.5300 X      | -.95  | 208 | 4.6350        | -.44  | 646 | 4.7150        | .80   |     |               |       | 509 | 5.7650 R      | 1.82  |
| 723 | 4.5200        | -.99  | 042 | 4.5150        | -.57  | 028 | 4.7100        | .63   |     |               |       | 511 | 5.6000        | 1.24  |
| 305 | 4.4300        | -1.40 | 098 | 4.5600        | -.58  | Avg | 4.6871        |       |     |               |       | 559 | 5.5900        | 1.22  |
| 674 | 4.4750 R      | -1.62 | 298 | 4.4500        | -.87  | 660 | 4.6600        | -.85  |     |               |       | 309 | 5.4850        | .89   |
| 121 | 4.2700        | -2.13 | 051 | 4.5500 R      | -1.05 | 205 | 4.6635        | -1.32 |     |               |       |     |               |       |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average*      | Index  | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|--------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 004.06 | --     | --  | Method 004.07 | --    | --  | Method 004.07 | --    | --  | Method 005.00 | --    | --  | Method 005.00 | --    |
| 723 | 31.395 s      | 106.27 | 121 | 5.7150        | 1.44  | 413 | 4.5000        | -1.31 | 676 | 8.6570        | 1.60  | 651 | 8.3385        | .57   |
| 552 | 6.5050        | 2.69   | 033 | 5.6800        | 1.36  | 160 | 4.1650        | -2.04 | 588 | 8.6150        | 1.47  | 710 | 8.3300        | .54   |
| 674 | 5.9450 R      | 1.84   | 631 | 5.6600        | 1.35  |     |               |       | 353 | 8.5750 R      | 1.44  | 646 | 8.3250        | .54   |
| 178 | 6.0500        | 1.43   | 096 | 5.6500        | 1.33  | --  | Method 004.11 | --    | 357 | 8.6000        | 1.42  | 643 | 8.3250        | .53   |
| 651 | 5.9870        | 1.19   | 708 | 5.5650        | 1.17  | 640 | 6.3750        | 1.24  | 520 | 8.5600        | 1.31  | 278 | 8.3250        | .52   |
| 676 | 5.9690        | 1.16   | 144 | 5.5750        | 1.13  | 588 | 6.3750        | 1.24  | 504 | 8.5450        | 1.25  | 686 | 8.3050        | .49   |
| 620 | 5.9206        | 1.06   | 185 | 5.5750        | 1.12  | 672 | 6.3650        | 1.22  | 599 | 8.5400        | 1.22  | 722 | 8.3130        | .48   |
| 672 | 5.8500        | .89    | 089 | 5.5450        | 1.05  | 178 | 6.1500        | .89   | 647 | 8.5200        | 1.21  | 142 | 8.3000        | .44   |
| 675 | 5.7100        | .77    | 520 | 5.3600 R      | .82   | 599 | 5.9500        | .51   | 666 | 8.5250        | 1.17  | 559 | 8.2400        | .43   |
| 633 | 5.7590        | .51    | 042 | 5.3900        | .70   | 140 | 5.9200        | .46   | 413 | 8.5000        | 1.14  | 723 | 8.2840        | .39   |
| 038 | 5.7400        | .46    | 529 | 5.3000        | .54   | 631 | 5.8650        | .37   | 670 | 8.4500 R      | 1.10  | 712 | 8.2650        | .36   |
| 710 | 5.6800        | .28    | 414 | 5.1250 R      | .52   | Avg | 5.6616        |       | 640 | 8.5000        | 1.09  | 693 | 8.2700        | .35   |
| 656 | 5.6350        | .27    | 300 | 5.2750        | .45   | 724 | 5.6500        | -.12  | 004 | 8.4900        | 1.06  | 178 | 8.2000        | .35   |
| 591 | 5.6250        | .25    | 011 | 5.1150        | .36   | 628 | 5.5290        | -.23  | 682 | 8.4900        | 1.06  | 164 | 8.2650        | .33   |
| 205 | 5.6100        | .25    | 567 | 5.1950        | .30   | 688 | 5.5000        | -.33  | 029 | 8.4850        | 1.05  | 563 | 8.2550        | .32   |
| 027 | 5.6400        | .22    | 407 | 5.1950        | .27   | 011 | 5.4500        | -.38  | 729 | 8.4800        | 1.03  | 035 | 8.2600        | .31   |
| 354 | 5.6100        | .10    | 686 | 5.1450        | .20   | 690 | 5.4500        | -.45  | 148 | 8.4800        | 1.03  | 454 | 8.2600        | .31   |
| 350 | 5.5846        | .06    | 003 | 5.1600        | .19   | 665 | 5.1050        | -.97  | 619 | 8.4700        | 1.01  | 674 | 8.2500        | .29   |
| Avg | 5.5833        |        | 100 | 5.0800        | .02   | 567 | 4.9000        | -1.33 | 669 | 8.4750        | 1.01  | 671 | 8.1700        | .23   |
| 607 | 5.5486        | -.14   | Avg | 5.0766        |       | 553 | 4.3400        | -2.30 | 307 | 8.2300 R      | 1.00  | 144 | 8.2150        | .18   |
| 722 | 5.5290        | -.22   | 294 | 4.9800        | -.22  |     |               |       | 350 | 8.4552        | .95   | 171 | 8.2100        | .15   |
| 588 | 5.4950        | -.26   | 278 | 5.0000        | -.28  | --  | Method 004.99 | --    | 672 | 8.4500        | .94   | 631 | 8.1850        | .13   |
| 140 | 5.4650        | -.39   | 682 | 4.9000        | -.40  | 640 | 6.0350        | 1.72  | 567 | 8.4500        | .94   | 034 | 8.1950        | .13   |
| 653 | 5.4000        | -.54   | 074 | 4.9500        | -.41  | 626 | 5.3600        | .49   | 688 | 8.4500        | .94   | 045 | 8.2000        | .12   |
| 689 | 5.4000        | -.61   | 098 | 4.8850        | -.43  | 724 | 5.1800        | .16   | 622 | 8.4454        | .91   | 675 | 8.1900        | .09   |
| 590 | 5.3500        | -.70   | 646 | 4.8800        | -.44  | Avg | 5.0942        |       | 363 | 8.4400        | .90   | 607 | 8.1726        | .08   |
| 673 | 5.3500        | -.70   | 004 | 4.8750        | -.48  | 629 | 4.9000        | -.36  | 294 | 8.4350        | .88   | 187 | 8.1750        | .04   |
| 599 | 5.4350        | -.81   | 229 | 4.8500        | -.51  | 628 | 4.6000        | -.92  | 621 | 8.4300        | .86   | Avg | 8.1639        |       |
| 098 | 5.4450        | -.85   | 505 | 4.8050        | -.61  | 655 | 4.4900        | -1.14 | 591 | 8.4100        | .80   | 001 | 8.1550        | -.03  |
| 688 | 5.1500        | -1.27  | 035 | 4.7950        | -.63  | 727 | 3.1850 S      | -3.51 | 590 | 8.3850        | .72   | 038 | 8.1500        | -.08  |
| 670 | 5.1700        | -1.34  | 013 | 4.7250        | -.79  |     |               |       | 689 | 8.3700        | .72   | 021 | 8.1200        | -.16  |
| 610 | 5.1000        | -1.41  | 110 | 4.6900        | -.88  | --  | Method 005.00 | --    | 660 | 8.2650 R      | .71   | 623 | 8.1057        | -.19  |
| 598 | 4.7850        | -2.33  | 026 | 4.6150        | -1.04 | 639 | 9.4450 s      | 4.18  | 541 | 8.3800        | .70   | 354 | 8.1050        | -.20  |
| 609 | 3.0000 s      | -7.54  | 242 | 4.5650        | -1.15 | 226 | 9.0000 R      | 2.79  | 100 | 8.3750        | .70   | 539 | 8.1000        | -.21  |
|     |               |        | 021 | 4.5600        | -1.16 | 108 | 8.8750        | 2.33  | 629 | 8.3750        | .69   | 229 | 8.1000        | -.21  |
| --  | Method 004.07 | --     | 019 | 4.5550        | -1.18 | 679 | 8.7100        | 1.77  | 407 | 8.3650        | .66   | 098 | 8.1450        | -.25  |
| 028 | 5.8500        | 1.73   | 307 | 4.5500        | -1.18 | 185 | 8.7000        | 1.74  | 620 | 8.3621        | .64   | 633 | 8.0868        | -.26  |
| 643 | 5.7650        | 1.54   | 639 | 4.5600        | -1.25 | 726 | 8.6700        | 1.67  | 152 | 8.3500        | .63   | 305 | 8.0800        | -.27  |
| 581 | 5.7450        | 1.50   | 202 | 4.5550        | -1.25 | 720 | 8.6750        | 1.66  | 140 | 8.3250        | .59   | 298 | 8.0700        | -.31  |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index  | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|--------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 005.00 | --    | --  | Method 005.00 | --     | --  | Method 005.99 | --    | --  | Method 008.08 | --    | --  | Method 009.07 | --    |
| 199 | 8.0650        | -.34  | 033 | 7.6700        | -1.60  | 728 | 8.3400        | .30   | 049 | 7.2650        | 1.21  | 590 | 15.250 R      | .85   |
| 083 | 8.0500        | -.37  | 179 | 7.6680        | -1.61  | 673 | 8.2500        | .15   | 001 | 7.1850 X      | .96   | 297 | 15.410        | .78   |
| 089 | 8.0500        | -.37  | 616 | 7.6600        | -1.64  | Avg | 8.2300        |       | 529 | 7.0800        | .79   | 226 | 15.100        | .52   |
| 529 | 8.0750        | -.38  | 658 | 7.6460        | -1.69  | 663 | 8.0850        | -.40  | 693 | 6.9700        | .57   | 353 | 15.030        | .45   |
| 505 | 8.0450        | -.39  | 049 | 7.6350        | -1.73  | 630 | 7.9100        | -.88  | 669 | 6.8750        | .55   | 187 | 14.945        | .37   |
| 300 | 8.0400        | -.40  | 019 | 7.5950        | -1.85  | 724 | 7.7150        | -1.42 | 357 | 6.7500        | .17   | 684 | 14.535        | .21   |
| 653 | 8.0500        | -.40  | 345 | 7.5950        | -1.86  | 122 | 7.5200        | -1.95 | Avg | 6.6710        |       | 354 | 14.610        | .17   |
| 366 | 8.0500        | -.40  | 655 | 7.5850        | -1.88  | --  | Method 006.05 | --    | 294 | 6.5950        | -.16  | 628 | 14.635        | .15   |
| 048 | 8.0500        | -.40  | 573 | 7.4650        | -2.27  | 710 | 6.3900        | -.71  | 581 | 6.6700        | -.19  | Avg | 14.516        |       |
| 414 | 8.0250        | -.46  | 062 | 7.1650 s      | -3.72  | --  | Method 008.02 | --    | 033 | 6.5500        | -.29  | 309 | 13.620        | -.78  |
| 194 | 8.0000        | -.53  | 160 | 4.5400 s      | -11.77 | 675 | 8.7100 s      | 3.68  | 414 | 6.5400        | -.32  | 663 | 13.170        | -1.17 |
| 596 | 7.9500        | -.71  | --  | Method 005.02 | --     | 187 | 7.7050        | 1.51  | 413 | 6.5000        | -.49  | 164 | 13.100        | -1.23 |
| 205 | 7.9425        | -.72  | 610 | 8.2250        | -.71   | 353 | 7.5300        | 1.15  | 037 | 6.3250        | -.68  | 038 | 12.950        | -1.38 |
| 242 | 7.9350        | -.74  | --  | Method 005.11 | --     | 226 | 7.4500        | 1.02  | 646 | 6.2550        | -.79  | 098 | 12.700        | -1.60 |
| 609 | 7.9300        | -.76  | 724 | 10.895 S      | 5.41   | 045 | 7.2500        | .63   | 160 | 6.1700        | -.94  | --  | Method 009.09 | --    |
| 138 | 7.9250        | -.78  | 297 | 10.190 S      | 4.23   | 098 | 7.1800        | .41   | 185 | 6.1500        | -.97  | 674 | 16.455 R      | 3.21  |
| 656 | 7.9900 R      | -.84  | 588 | 9.3800 S      | 2.95   | 728 | 7.1550        | .37   | 026 | 6.0400        | -1.18 | 510 | 15.550        | 1.91  |
| 129 | 7.9250 R      | -.91  | 690 | 8.8000        | 1.80   | 354 | 7.1350        | .31   | 686 | 5.4050        | -2.36 | 357 | 15.150        | 1.40  |
| 552 | 7.8750        | -.94  | 688 | 8.6500        | 1.54   | 309 | 7.1250        | .29   | --  | Method 008.99 | --    | 414 | 14.805        | .99   |
| 550 | 7.8525        | -1.01 | 599 | 8.2500        | .85    | 035 | 6.9950        | .16   | 307 | 7.3500        | 1.27  | 529 | 14.705        | .83   |
| 202 | 7.8400        | -1.06 | 672 | 7.8400        | .18    | 726 | 7.0250        | .09   | 628 | 7.1300        | .85   | 294 | 14.535        | .61   |
| 026 | 7.8350        | -1.07 | Avg | 7.7570        |        | 148 | 7.0150        | .05   | 656 | 6.9750        | .56   | 037 | 14.410        | .52   |
| 417 | 7.8350        | -1.07 | 640 | 7.6900        | -.14   | Avg | 6.9909        |       | 725 | 6.7600        | .52   | 646 | 14.285        | .29   |
| 358 | 7.8250        | -1.10 | 631 | 7.6050        | -.26   | 038 | 6.9800        | -.09  | 297 | 6.8700        | .37   | 669 | 14.140        | .27   |
| 510 | 7.8050        | -1.17 | 548 | 7.6600        | -.31   | 684 | 6.7800        | -.48  | Avg | 6.6854        |       | Avg | 14.057        |       |
| 297 | 7.8000        | -1.18 | 140 | 7.4900        | -.48   | 590 | 6.5000        | -1.05 | 358 | 6.5500        | -.26  | 202 | 13.945        | -.15  |
| 175 | 7.8000        | -1.18 | 178 | 7.1500        | -1.07  | 405 | 6.0300        | -2.04 | 164 | 6.0000        | -1.32 | 581 | 13.740        | -.43  |
| 119 | 7.7850        | -1.23 | 628 | 7.1225        | -1.10  | 619 | 6.0000        | -2.10 | 676 | 5.8480        | -1.62 | 049 | 14.040        | -.63  |
| 650 | 7.7800        | -1.26 | 665 | 7.0700        | -1.18  | --  | Method 008.05 | --    | 674 | 5.8100 R      | -2.29 | 265 | 13.850        | -.63  |
| 684 | 7.7750        | -1.27 | --  | Method 005.99 | --     | 265 | 7.1000        | .71   | --  | Method 009.04 | --    | 185 | 13.590        | -.66  |
| 598 | 7.7700        | -1.28 | 628 | 8.7550        | 1.45   | --  | Method 008.08 | --    | 726 | 18.190        | .71   | 160 | 13.320        | -.95  |
| 027 | 7.7650        | -1.30 | 727 | 8.5950        | 1.01   | 202 | 7.4050 R      | 1.58  | --  | Method 009.07 | --    | 686 | 13.005        | -1.35 |
| 015 | 7.7350        | -1.39 | 652 | 8.4500        | .73    | 674 | 7.4450        | 1.46  | 675 | 20.290 s      | 5.02  | 413 | 13.000        | -1.41 |
| 615 | 7.7450 R      | -1.42 | 725 | 8.4900        | .73    | 510 | 7.3000        | 1.30  | 307 | 16.400        | 1.66  | 278 | 12.900        | -1.50 |
| 169 | 7.7250        | -1.43 | 096 | 8.3500        | .53    | 278 | 7.3500        | 1.27  | 045 | 15.800        | 1.12  |     |               |       |
| 110 | 7.7150        | -1.46 | 208 | 8.3000        | .43    |     |               |       | 693 | 15.735        | 1.10  |     |               |       |
| 265 | 7.7150        | -1.47 |     |               |        |     |               |       |     |               |       |     |               |       |
| 051 | 7.6950        | -1.52 |     |               |        |     |               |       |     |               |       |     |               |       |
| 309 | 7.6800        | -1.57 |     |               |        |     |               |       |     |               |       |     |               |       |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|
| --  | Method 009.99 | --    | --  | Method 010.99 | --    | --  | Method 011.01 | --    | --  | Method 011.01 | --    | --  | Method 012.04 | --    |
| 619 | 24.300 S      | 9.93  | 628 | 8.4000        | -.63  | 148 | 10.580        | .21   | 014 | 9.7730 R      | -1.87 | 353 | 26.980        | -.36  |
| 728 | 15.925        | 1.00  | 712 | 7.4400        | -1.81 | 208 | 10.550        | .18   | 294 | 9.5900        | -2.18 | 038 | 26.520        | -.63  |
| 676 | 15.693        | .79   | 655 | 7.2200        | -2.06 | 033 | 10.560        | .17   | 633 | 9.4544        | -2.51 | 510 | 26.400        | -.67  |
| Avg | 15.003        |       |     |               |       | 454 | 10.560        | .16   | 598 | 9.3900        | -2.66 |     |               |       |
| 643 | 14.525        | -.51  | --  | Method 011.01 | --    | 164 | 10.540        | .14   | 650 | 8.0100 s      | -6.00 | --  | Method 012.99 | --    |
| 725 | 13.870        | -1.27 | 185 | 12.290 s      | 4.34  | 233 | 10.520        | .12   |     |               |       | 619 | 42.700 S      | .00   |
|     |               |       | 110 | 11.275        | 1.90  | 354 | 10.515        | .07   | --  | Method 011.99 | --    |     |               |       |
| --  | Method 010.03 | --    | 623 | 11.082 R      | 1.71  | 573 | 10.499        | .05   | 684 | 9.8100        | .87   | --  | Method 013.02 | --    |
| 546 | 6.1700 S      | .00   | 510 | 11.150        | 1.63  | 670 | 10.510        | .05   | Avg | 9.7375        |       | 065 | 6.3250        | 1.67  |
|     |               |       | 108 | 11.110        | 1.58  | Avg | 10.493        |       | 265 | 9.6650        | -.86  | 650 | 6.2900        | 1.52  |
| --  | Method 010.11 | --    | 226 | 11.100        | 1.47  | 026 | 10.480        | -.04  | --  | Method 012.00 | --    | 675 | 6.2250        | 1.36  |
| 690 | 11.050        | 1.94  | 539 | 11.000        | 1.32  | 682 | 10.460        | -.08  | 548 | 30.355        | .88   | 100 | 6.0700        | .94   |
| 640 | 10.275        | 1.04  | 414 | 11.015        | 1.29  | 179 | 10.389        | -.25  | 354 | 30.165        | .78   | 051 | 5.8550 R      | .93   |
| 631 | 9.8050        | .50   | 121 | 11.015        | 1.27  | 051 | 10.410        | -.26  | 673 | 29.900        | .59   | 003 | 6.0450        | .88   |
| 628 | 9.6995        | .38   | 722 | 11.016        | 1.27  | 520 | 10.370        | -.30  | 559 | 29.850        | .56   | 164 | 6.0150        | .80   |
| 688 | 9.6000        | .26   | 723 | 10.974        | 1.16  | 653 | 10.350        | -.35  | 567 | 29.650        | .46   | 171 | 5.9650        | .70   |
| Avg | 9.3768        |       | 541 | 10.965        | 1.15  | 350 | 10.334        | -.39  | 672 | 29.500        | .42   | Avg | 5.7089        |       |
| 567 | 9.3500        | -.07  | 205 | 10.915        | 1.11  | 358 | 10.305        | -.45  | Avg | 28.987        |       | 643 | 5.6850        | -.11  |
| 588 | 9.2800        | -.12  | 407 | 10.940        | 1.08  | 119 | 10.305        | -.48  | 689 | 28.400        | -.38  | 354 | 5.6150        | -.25  |
| 178 | 9.2000 R      | -.31  | 728 | 10.855        | .95   | 202 | 10.300        | -.50  | 653 | 27.510        | -.97  | 208 | 5.6150        | -.37  |
| 140 | 9.0550        | -.38  | 100 | 10.865        | .91   | 552 | 10.275        | -.53  | 178 | 25.550        | -2.24 | 548 | 5.5800        | -.40  |
| 599 | 8.9000        | -.56  | 559 | 10.845        | .89   | 034 | 10.275        | -.55  |     |               |       | 671 | 5.5350        | -.52  |
| 724 | 8.2850        | -1.26 | 122 | 10.795        | .86   | 529 | 10.240        | -.61  | --  | Method 012.01 | --    | 454 | 5.5200        | -.53  |
| 297 | 7.8450        | -1.77 | 144 | 10.830        | .84   | 298 | 10.190        | -.73  | 686 | 27.150        | .84   | 033 | 5.5450        | -.54  |
|     |               |       | 021 | 10.775        | .79   | 660 | 10.205        | -.77  | Avg | 26.823        |       | 026 | 5.4600        | -.66  |
| --  | Method 010.99 | --    | 622 | 10.792        | .72   | 621 | 10.150        | -.83  | 185 | 26.495        | -.89  | 616 | 5.4200        | -.79  |
| 062 | 10.220        | 1.58  | 309 | 10.765        | .67   | 596 | 10.150        | -.84  | --  | Method 012.03 | --    | 581 | 5.3600        | -.97  |
| 726 | 9.9100        | 1.21  | 646 | 10.760        | .65   | 300 | 10.270 R      | -.86  | 684 | 34.890 S      | 52.80 | 229 | 5.2500        | -1.21 |
| 714 | 9.5150        | .73   | 229 | 10.740        | .60   | 194 | 10.120        | -.90  | 297 | 27.285        | 1.15  | 011 | 4.9500        | -2.02 |
| 652 | 9.5000        | .72   | 138 | 10.725        | .56   | 647 | 10.070        | -1.05 | 098 | 27.250        | 1.03  | 414 | 3.7400 s      | -5.18 |
| 673 | 9.4000        | .60   | 098 | 10.650        | .53   | 548 | 10.165 R      | -1.10 | Avg | 27.250        |       | --  | Method 013.10 | --    |
| 666 | 9.3350        | .51   | 675 | 10.690        | .51   | 620 | 10.020        | -1.14 | 160 | 27.215        | -.34  | 660 | 6.0300        | 1.47  |
| 724 | 9.1800        | .32   | 363 | 10.695        | .51   | 152 | 10.000        | -1.19 |     |               |       | 652 | 5.9500        | 1.39  |
| 725 | 9.0100        | .13   | 651 | 10.700        | .50   | 591 | 9.9650        | -1.27 |     |               |       | 160 | 5.9100        | 1.26  |
| 037 | 8.9550        | .05   | 645 | 10.500        | .48   | 643 | 9.9500        | -1.32 | --  | Method 012.04 | --    | 353 | 5.5600        | .68   |
| Avg | 8.9170        |       | 658 | 10.662        | .41   | 563 | 9.9300        | -1.38 | 051 | 30.950        | 1.86  | 096 | 5.4000        | .41   |
| 727 | 8.7350        | -.39  | 242 | 10.630        | .38   | 175 | 9.9000        | -1.43 | Avg | 27.610        |       | 666 | 5.2800        | .17   |
| 168 | 8.4900        | -.54  | 674 | 10.505        | .35   | 710 | 9.8950        | -1.44 | 278 | 27.200        | -.23  | 539 | 5.2050        | .10   |
| 417 | 8.4450        | -.62  | 171 | 10.575        | .25   | 160 | 9.8450        | -1.57 |     |               |       |     |               |       |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index   | Lab | Average*      | Index  | Lab | Average*      | Index   | Lab | Average*      | Index   | Lab | Average*      | Index  |
|-----|---------------|---------|-----|---------------|--------|-----|---------------|---------|-----|---------------|---------|-----|---------------|--------|
| --  | Method 013.10 | --      | --  | Method 016.00 | --     | --  | Method 019.00 | --      | --  | Method 019.01 | --      | --  | Method 019.05 | --     |
| Avg | 5.1823        |         | 619 | 0.1000        | .00    | 651 | 1.5455        | -1.81   | 650 | 1.6750        | -.21    | 003 | 1.9300        | s 3.62 |
| 177 | 5.1250        | -.11    |     |               |        | 647 | 1.5650        | s -2.66 | 354 | 1.6750        | -.27    | 405 | 1.8450        | 2.23   |
| 672 | 5.1000        | -.22    | --  | Method 016.02 | --     |     |               |         | 504 | 1.6740        | -.29    | 550 | 1.8035        | R 2.21 |
| 185 | 4.9800        | -.35    | 154 | 0.1600        | .71    | --  | Method 019.01 | --      | 152 | 1.6650        | -.32    | 414 | 1.8100        | 1.76   |
| 673 | 4.9500        | -.41    |     |               |        | 653 | 7.8200        | s 69.20 | 669 | 1.6585        | -.39    | 089 | 1.8200        | 1.73   |
| 688 | 4.9500        | -.48    | --  | Method 017.00 | --     | 018 | 2.0000        | S 3.47  | 307 | 1.6700        | -.43    | 294 | 1.8100        | 1.58   |
| 610 | 4.8500        | -.58    | 154 | 19.950        | s 4.91 | 720 | 1.9150        | S 2.77  | 350 | 1.6524        | -.47    | 185 | 1.7925        | 1.30   |
| 663 | 4.7600        | -.73    | 353 | 15.590        | 1.65   | 013 | 1.8500        | 1.83    | 001 | 1.6450        | -.55    | 413 | 1.7750        | 1.05   |
| 656 | 4.7450        | R -.93  | 414 | 13.500        | R 1.13 | 010 | 1.8300        | 1.56    | 038 | 1.6500        | -.59    | 512 | 1.7530        | .68    |
| 714 | 3.6840        | -2.59   | 560 | 13.950        | .42    | 529 | 1.8150        | 1.38    | 305 | 1.6400        | -.69    | 049 | 1.7200        | .65    |
| 591 | 3.4000        | s -3.08 | 045 | 13.500        | .38    | 026 | 1.8100        | 1.36    | 019 | 1.6550        | R -.85  | 100 | 1.7400        | .50    |
|     |               |         | Avg | 13.390        |        | 674 | 1.7850        | R 1.34  | 670 | 1.6000        | -1.05   | 083 | 1.7400        | .50    |
| --  | Method 013.13 | --      | 693 | 13.350        | -.19   | 233 | 1.7950        | 1.15    | 710 | 1.6000        | -1.06   | 187 | 1.7400        | .48    |
| 042 | 7.0650        | .71     | 345 | 12.340        | -.79   | 178 | 1.7900        | 1.10    | 108 | 1.5900        | -1.19   | 682 | 1.7400        | .48    |
|     |               |         | 510 | 11.610        | -1.34  | 098 | 1.7850        | 1.04    | 363 | 1.5850        | -1.22   | 164 | 1.7345        | .39    |
| --  | Method 013.99 | --      |     |               |        | 034 | 1.7750        | .94     | 511 | 1.5900        | -1.25   | 074 | 1.7300        | .36    |
| 689 | 5.3500        | .87     | --  | Method 017.99 | --     | 588 | 1.7750        | .92     | 620 | 1.5594        | -1.51   | 242 | 1.7200        | .23    |
| Avg | 5.0175        |         | 307 | 15.650        | .71    | 676 | 1.7655        | .82     | 687 | 1.5500        | -1.62   | 229 | 1.7100        | .16    |
| 047 | 4.6850        | -.86    |     |               |        | 591 | 1.7600        | .76     | 548 | 1.5448        | -1.68   | 298 | 1.7100        | .16    |
|     |               |         | --  | Method 018.02 | --     | 656 | 1.7550        | .72     | 631 | 1.5950        | R -1.98 | 148 | 1.7150        | .12    |
| --  | Method 015.00 | --      | 567 | 0.2000        | 1.29   | 205 | 1.7550        | .70     | 142 | 1.5000        | -2.18   | 029 | 1.7160        | .11    |
| 353 | 200.50        | s 4.08  | Avg | 0.1428        |        | 035 | 1.7550        | .70     | 122 | 1.4400        | -2.86   | Avg | 1.7093        |        |
| 520 | 164.50        | R 1.43  | 154 | 0.1150        | -.64   | 278 | 1.7250        | .62     | 609 | 1.1950        | s -5.63 | 560 | 1.7050        | -.10   |
| 045 | 164.50        | 1.15    | 011 | 0.1135        | -.66   | 619 | 1.7450        | .61     |     |               |         | 610 | 1.6960        | -.21   |
| 345 | 163.35        | 1.06    |     |               |        | 004 | 1.7430        | .56     | --  | Method 019.02 | --      | 265 | 1.6950        | -.24   |
| 414 | 160.00        | .78     | --  | Method 019.00 | --     | 722 | 1.7420        | .55     | 536 | 1.5800        | -.71    | 144 | 1.6950        | -.24   |
| 616 | 158.50        | .76     | 633 | 1.8595        | 1.82   | 014 | 1.7415        | .55     |     |               |         | 011 | 1.6994        | -.34   |
| 164 | 156.50        | .50     | 599 | 1.7900        | 1.04   | 658 | 1.7370        | .52     | --  | Method 019.03 | --      | 598 | 1.6900        | -.34   |
| 154 | 154.50        | .44     | 679 | 1.7600        | .67    | 065 | 1.7370        | .50     | 686 | 2.0400        | S 5.97  | 297 | 1.6950        | -.45   |
| Avg | 150.32        |         | 043 | 1.7500        | .65    | 169 | 1.7250        | .36     | 026 | 1.8550        | 1.59    | 171 | 1.6800        | -.46   |
| 011 | 149.09        | -.14    | 194 | 1.7450        | .50    | 208 | 1.7000        | .24     | 033 | 1.8000        | .28     | 510 | 1.6800        | -.48   |
| 560 | 145.50        | -.41    | 175 | 1.7200        | .31    | 263 | 1.7087        | .17     | Avg | 1.7880        |         | 358 | 1.6850        | -.66   |
| 169 | 141.50        | -.74    | 689 | 1.7050        | .18    | 612 | 1.6950        | .17     | 048 | 1.7650        | -.56    | 051 | 1.6650        | -.70   |
| 510 | 134.50        | -1.29   | Avg | 1.7023        |        | 505 | 1.7050        | .14     | 043 | 1.7600        | -.81    | 553 | 1.6600        | -.83   |
| 021 | 125.55        | -2.01   | 622 | 1.7001        | -.03   | 675 | 1.7000        | .08     | 307 | 1.7600        | -.97    | 300 | 1.6395        | -1.20  |
|     |               |         | 623 | 1.6993        | -.05   | 129 | 1.6935        | .06     |     |               |         | 407 | 1.6300        | -1.24  |
|     |               |         | 620 | 1.6603        | -.48   | Avg | 1.6932        |         |     |               |         | 168 | 1.6300        | -1.25  |
|     |               |         | 621 | 1.6350        | -.78   | 039 | 1.6916        | -.02    |     |               |         | 026 | 1.6200        | -1.40  |
|     |               |         | 552 | 1.5600        | -1.66  | 563 | 1.6928        | -.14    |     |               |         | 226 | 1.6050        | -1.63  |

\* 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 019.05 | --    | --  | Method 019.09 | --    | --  | Method 020.99 | --    | --  | Method 022.01 | --    | --  | Method 022.03 | --    |
| 520 | 1.6000 R      | -2.31 | 110 | 1.6700        | -.49  | 616 | 15.300 S      | 15.26 | 658 | 43.780 s      | 6.18  | 187 | 33.610        | .76   |
| 645 | 1.5516        | -2.46 | 567 | 1.6600        | -.55  | 675 | 5.9400        | .71   | 305 | 40.230 s      | 4.35  | 003 | 33.500        | .74   |
| --  | Method 019.08 | --    | 616 | 1.6600        | -.55  | Avg | 5.9400        |       | 175 | 38.000 R      | 3.20  | 083 | 33.500        | .74   |
| 729 | 1.8450        | 1.74  | 366 | 1.6450        | -.78  | --  | Method 021.01 | --    | 014 | 35.500        | 1.83  | 029 | 32.050        | .62   |
| 723 | 1.8095        | .93   | 028 | 1.6000        | -1.51 | 722 | 4.1320 S      | 2.49  | 529 | 35.000        | 1.37  | 011 | 32.978        | .49   |
| 138 | 1.7800        | .72   | 345 | 1.6000        | -1.52 | 619 | 3.1250        | 1.28  | 656 | 34.510        | 1.19  | 407 | 32.765        | .40   |
| Avg | 1.7690        |       | 047 | 1.5465        | -2.40 | Avg | 2.0658        |       | 038 | 34.500        | 1.13  | 185 | 32.500        | .36   |
| 673 | 1.7550        | -.33  | 106 | 1.3800 s      | -5.11 | 164 | 1.6500        | -.50  | 208 | 34.100        | .95   | 100 | 32.500        | .36   |
| 628 | 1.7650        | -.35  | --  | Method 019.99 | --    | 658 | 1.4225        | -.78  | 646 | 34.020        | .83   | 144 | 32.550        | .32   |
| 590 | 1.7500        | -.80  | 725 | 1.8300        | 1.80  | --  | Method 021.02 | --    | 596 | 34.000        | .83   | 164 | 32.000        | .19   |
| 607 | 1.7327        | -.82  | Avg | 1.6740        |       | 628 | 2.1850        | 1.86  | 675 | 33.940        | .81   | 610 | 32.000        | .15   |
| 689 | 1.7150        | -1.26 | 629 | 1.6600        | -.19  | 510 | 2.0000        | 1.32  | 354 | 33.980        | .81   | 510 | 32.000        | .08   |
| --  | Method 019.09 | --    | 692 | 1.6550        | -.27  | 029 | 1.8500        | .90   | 350 | 33.950        | .80   | Avg | 31.822        |       |
| 042 | 1.9700 s      | 4.55  | 724 | 1.6150        | -.67  | 021 | 1.8000        | .79   | 278 | 32.700        | .29   | 297 | 31.500        | -.25  |
| 160 | 1.9260 s      | 3.81  | 121 | 1.6100        | -.83  | 616 | 1.6300        | .50   | 590 | 32.650        | .08   | 300 | 31.350        | -.34  |
| 572 | 1.8900 s      | 3.77  | 588 | 1.4600 S      | -2.60 | 038 | 1.6500        | .33   | Avg | 32.508        |       | 242 | 30.500        | -.60  |
| 202 | 1.7950        | 1.69  | 665 | 0.8950 S      | -8.58 | 011 | 1.5708        | .14   | 619 | 32.350        | -.21  | 550 | 31.207        | -.64  |
| 353 | 1.7800        | 1.46  | --  | Method 020.00 | --    | Avg | 1.5473        |       | 098 | 32.500        | -.27  | 026 | 30.100        | -.73  |
| 726 | 1.7750        | 1.37  | 722 | 4.6745        | 1.17  | 171 | 1.5000        | -.14  | 588 | 32.000        | -.28  | 148 | 29.950        | -.80  |
| 035 | 1.7650        | 1.25  | Avg | 4.5873        |       | 169 | 1.4800        | -.23  | 307 | 32.000        | -.28  | 171 | 29.500        | -1.01 |
| 096 | 1.7500 R      | 1.24  | 164 | 4.5000        | -.38  | 560 | 1.4000        | -.55  | 178 | 32.000        | -.28  | 520 | 30.000 R      | -1.15 |
| 199 | 1.7605        | 1.11  | --  | Method 020.01 | --    | 045 | 1.3000        | -.78  | 548 | 31.777        | -.48  | 553 | 29.050        | -1.18 |
| 045 | 1.7500        | .95   | 021 | 5.8000        | 1.64  | 154 | 1.2500        | -.88  | 504 | 32.000        | -.61  | 358 | 28.555        | -1.38 |
| 309 | 1.7050 R      | .92   | 045 | 5.3500        | 1.09  | 567 | 1.5000 R      | -1.47 | 720 | 31.005        | -.85  | 229 | 28.500        | -1.42 |
| 037 | 1.7350        | .70   | 096 | 5.0000        | .67   | 106 | 1.0400        | -1.49 | 653 | 30.822        | -.96  | 049 | 26.075        | -2.44 |
| 186 | 1.6996        | .61   | Avg | 4.4416        |       | 572 | 1.0065        | -1.58 | 722 | 30.041        | -1.36 | --  | Method 022.05 | --    |
| 190 | 1.7000        | .50   | 011 | 4.0580        | -.47  | 504 | 0.9275 R      | -3.17 | 035 | 30.500        | -1.37 | 202 | 39.500        | 2.43  |
| 017 | 1.7200        | .48   | 510 | 3.9850        | -.55  | --  | Method 021.99 | --    | 591 | 29.995        | -1.39 | 294 | 39.190        | 2.30  |
| 027 | 1.7050        | .22   | 154 | 3.8500        | -.82  | 017 | 3.5000 S      | 4.73  | 620 | 29.875        | -1.48 | 186 | 36.550        | 1.22  |
| Avg | 1.6925        |       | 560 | 3.8900        | -.98  | 721 | 2.2800        | 1.25  | 710 | 29.500        | -1.67 | 154 | 36.000        | 1.05  |
| 357 | 1.6900        | -.04  | 171 | 3.6000        | -1.01 | Avg | 1.8234        |       | --  | Method 022.03 | --    | 017 | 35.500        | .79   |
| 154 | 1.6889        | -.11  | 567 | 4.0000 R      | -1.31 | 607 | 1.7066        | -.32  | 598 | 40.500 s      | 4.60  | 160 | 35.000        | .69   |
| 038 | 1.6750        | -.30  | --  |               |       | 610 | 1.4835        | -.92  | 265 | 40.000 s      | 3.47  | 693 | 34.550        | .60   |
| 628 | 1.6750        | -.30  |     |               |       |     |               |       | 560 | 35.900        | 1.73  | 021 | 33.700        | .37   |
| 693 | 1.6680        | -.40  |     |               |       |     |               |       | 226 | 35.500        | 1.68  | 366 | 34.000        | .14   |
| 021 | 1.6710        | -.43  |     |               |       |     |               |       | 405 | 35.500        | 1.57  | 038 | 33.800        | .14   |
| 009 | 1.6785        | -.45  |     |               |       |     |               |       | 414 | 32.600 R      | 1.07  | 616 | 33.750        | .07   |
|     |               |       |     |               |       |     |               |       | 413 | 34.050        | .94   | Avg | 33.664        |       |

\* 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 022.05 | --    | --  | Method 025.01 | --    | --  | Method 025.03 | --    | --  | Method 025.05 | --     | --  | Method 027.01 | --    |
| 199 | 33.560        | -.06  | 596 | 512.50        | .42   | Avg | 489.08        |       | 353 | 454.70        | -.33   | 591 | 0.2300        | -.01  |
| 309 | 33.450        | -.21  | 563 | 510.45        | .36   | 553 | 484.00        | -.19  | 154 | 443.50        | -.57   | 350 | 0.2280        | -.22  |
| 035 | 33.500        | -.22  | 674 | 507.50        | .29   | 610 | 483.50        | -.19  | 106 | 440.50        | -.61   | 014 | 0.2275        | -.27  |
| 726 | 33.485        | -.35  | 504 | 504.50        | .21   | 171 | 478.50        | -.37  | 616 | 397.00        | -1.43  | 038 | 0.2255        | -.52  |
| 096 | 33.000        | -.50  | 675 | 496.64        | .21   | 407 | 478.00        | -.39  | 572 | 396.00 R      | -1.49  | 563 | 0.2247        | -.55  |
| 567 | 33.000        | -.50  | Avg | 496.23        |       | 413 | 473.50        | -.56  | 726 | 357.65        | -2.19  | 548 | 0.2241        | -.67  |
| 357 | 33.000        | -.50  | 646 | 485.50        | -.27  | 187 | 469.81        | -.67  | 190 | 355.49        | -2.23  | 588 | 0.2210        | -.82  |
| 169 | 32.450        | -.50  | 505 | 486.50        | -.28  | 026 | 468.00        | -.73  |     |               |        | 656 | 0.2300 R      | -.91  |
| 042 | 32.300        | -.57  | 669 | 484.07        | -.35  | 598 | 460.00        | -1.01 | --  | Method 025.99 | --     | 675 | 0.2200        | -.91  |
| 353 | 32.280        | -.58  | 350 | 480.30        | -.41  | 297 | 460.00        | -1.02 | 607 | 499.77        | .96    | 305 | 0.2200        | -.91  |
| 345 | 32.220        | -.61  | 307 | 481.00        | -.44  | 168 | 459.15        | -1.06 | 121 | 479.43        | .61    | 035 | 0.2150        | -1.44 |
| 572 | 32.200        | -.62  | 305 | 478.69        | -.45  | 144 | 457.85        | -1.09 | Avg | 475.73        |        | 175 | 0.2150        | -1.44 |
| 045 | 32.000        | -.69  | 629 | 477.50        | -.48  | 520 | 468.00 R      | -1.25 | 692 | 448.00        | -1.10  | 710 | 0.2100        | -1.82 |
| 106 | 32.100        | -.69  | 038 | 482.50        | -.49  | 003 | 450.00        | -1.48 | 725 | 4.9300 S      | -18.56 | 596 | 0.1900 S      | -3.63 |
| 037 | 31.350        | -.96  | 670 | 474.98        | -.54  | 011 | 429.38        | -2.10 |     |               |        | 646 | 0.1900 S      | -3.63 |
| 628 | 27.500        | -2.56 | 656 | 473.63        | -.65  | 300 | 426.30 R      | -2.33 | --  | Method 026.00 | --     | 142 | 0.1900 S      | -3.63 |
|     |               |       | 548 | 464.80        | -.80  | 550 | 431.88 R      | -2.34 | 154 | 0.2450        | .88    |     |               |       |
| --  | Method 022.99 | --    | 013 | 463.00        | -.85  | 560 | 394.00 s      | -3.48 | Avg | 0.2235        |        | --  | Method 027.03 | --    |
| 721 | 37.450        | 1.22  | 511 | 449.00        | -1.21 | 226 | 383.00 s      | -3.71 | 610 | 0.2020        | -.85   | 003 | 0.2900 s      | 7.88  |
| 607 | 34.914        | .55   | 710 | 443.00        | -1.35 |     |               |       |     |               |        | 405 | 0.2450        | 1.71  |
| Avg | 32.886        |       | 588 | 442.50        | -1.37 | --  | Method 025.05 | --    | --  | Method 026.99 | --     | 011 | 0.2444        | 1.56  |
| 692 | 30.200        | -.74  | 591 | 405.73        | -2.30 | 309 | 623.50 s      | 3.66  | 619 | 0.0000        | .00    | 171 | 0.2430        | 1.28  |
| 121 | 28.980        | -1.08 | 035 | 160.00 s      | -8.55 | 186 | 553.90        | 1.58  |     |               |        | 550 | 0.2365 R      | 1.25  |
| 725 | 0.3300 S      | -8.66 |     |               |       | 038 | 542.50        | 1.36  | --  | Method 027.01 | --     | 185 | 0.2420        | 1.15  |
|     |               |       | --  | Method 025.03 | --    | 045 | 509.00        | .73   | 609 | 0.2550        | 2.30   | 610 | 0.2400        | .90   |
| --  | Method 023.01 | --    | 265 | 626.50 s      | 4.77  | 567 | 503.50 R      | .73   | 720 | 0.2500 R      | 2.02   | 294 | 0.2400        | .85   |
| 619 | 0.0035        | .71   | 029 | 548.15        | 2.05  | 017 | 506.50        | .72   | 098 | 0.2500        | 1.80   | 297 | 0.2400        | .85   |
|     |               |       | 074 | 528.50        | 1.47  | 021 | 508.35        | .71   | 263 | 0.2429        | 1.17   | 049 | 0.2400        | .85   |
| --  | Method 025.01 | --    | 100 | 525.00        | 1.25  | 160 | 505.50        | .65   | 650 | 0.2424        | 1.11   | 100 | 0.2400        | .85   |
| 354 | 580.30        | 2.14  | 049 | 517.19        | 1.06  | 037 | 503.40        | .61   | 619 | 0.2400        | 1.05   | 265 | 0.2400        | .85   |
| 175 | 561.50        | 1.67  | 414 | 517.00        | .99   | 199 | 503.45        | .61   | 278 | 0.2350        | .63    | 413 | 0.2350        | .72   |
| 208 | 558.00        | 1.59  | 405 | 514.00        | .93   | 693 | 498.50        | .52   | 529 | 0.2350        | .63    | 164 | 0.2370        | .43   |
| 720 | 548.14        | 1.34  | 164 | 511.45        | .78   | 366 | 492.50        | .40   | 129 | 0.2331        | .43    | 187 | 0.2362        | .32   |
| 098 | 546.50        | 1.28  | 242 | 508.50        | .72   | 294 | 489.84        | .35   | 504 | 0.2340        | .40    | Avg | 0.2339        |       |
| 619 | 522.00 R      | .86   | 512 | 507.60        | .64   | Avg | 471.65        |       | 208 | 0.2330        | .38    | 560 | 0.2335        | -.09  |
| 658 | 529.70        | .85   | 083 | 503.00        | .49   | 169 | 466.50        | -.13  | 722 | 0.2315        | .13    | 407 | 0.2330        | -.13  |
| 529 | 525.40        | .74   | 148 | 498.50        | .33   | 628 | 460.00        | -.23  | Avg | 0.2301        |        | 026 | 0.2328        | -.25  |
| 014 | 519.50        | .59   | 229 | 492.00        | .17   | 096 | 460.00        | -.29  | 169 | 0.2300        | -.01   | 029 | 0.2310        | -.42  |
| 278 | 513.50        | .44   | 510 | 493.50        | .15   | 345 | 455.87        | -.32  | 307 | 0.2300        | -.01   | 510 | 0.2300        | -.55  |

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



## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index  | Lab | Average*      | Index  | Lab | Average*      | Index  | Lab | Average*      | Index  |
|-----|---------------|-------|-----|---------------|--------|-----|---------------|--------|-----|---------------|--------|-----|---------------|--------|
| --  | Method 027.03 | --    | --  | Method 027.05 | --     | --  | Method 028.01 | --     | --  | Method 028.03 | --     | --  | Method 028.99 | --     |
| 358 | 0.2300        | -.55  | 345 | 0.2150        | -1.14  | 038 | 231.50        | -.67   | 550 | 237.19 R      | -1.25  | 721 | 278.50        | 1.52   |
| 083 | 0.2300        | -.55  | 106 | 0.2120        | -1.32  | 658 | 230.65        | -.73   | 520 | 221.50 R      | -1.43  | Avg | 247.33        |        |
| 598 | 0.2300        | -.55  | 628 | 0.1965        | -2.32  | 588 | 223.00        | -1.23  | 405 | 209.50        | -2.01  | 607 | 246.03        | -.15   |
| 226 | 0.2300        | -.55  | 027 | 0.0250 s      | -13.44 | 675 | 219.23        | -1.48  | 168 | 207.20        | -2.12  | 121 | 235.29        | -.61   |
| 229 | 0.2300        | -.55  | --  | Method 027.99 | --     | 629 | 218.50        | -1.52  | 226 | 206.00        | -2.15  | 692 | 229.50        | -.89   |
| 148 | 0.2270        | -.97  | 725 | 0.2488        | .90    | 710 | 217.50        | -1.59  | 300 | 101.83 s      | -11.20 | 725 | 2.7700 S      | -11.94 |
| 300 | 0.2315 R      | -.97  | Avg | 0.2394        |        | 305 | 211.64        | -1.97  | --  | Method 028.05 | --     | --  | Method 029.00 | --     |
| 553 | 0.2255        | -1.19 | 692 | 0.2300        | -.83   | 619 | 208.00 R      | -2.27  | 294 | 285.47 s      | 3.16   | 675 | 0.0030        | .71    |
| 144 | 0.2245        | -1.34 | --  | Method 028.01 | --     | 596 | 26.450 s      | -14.10 | 572 | 276.50 s      | 2.88   | --  | Method 031.00 | --     |
| 414 | 0.2300 R      | -1.51 | 620 | 279.88        | 2.50   | --  | Method 028.03 | --     | 160 | 274.00        | 2.14   | 620 | 0.7739        | .71    |
| 051 | 0.2200        | -1.96 | 720 | 268.77        | 1.78   | 003 | 279.50        | 2.70   | 309 | 272.50        | 2.06   | --  | Method 031.01 | --     |
| 242 | 0.2200        | -1.96 | 354 | 261.35        | 1.28   | 100 | 254.00        | 1.02   | 726 | 260.44        | .92    | 122 | 0.8400        | 2.85   |
| 520 | 0.2100 s      | -3.64 | 208 | 259.50        | 1.17   | 074 | 253.00        | .95    | 190 | 260.40        | .92    | 656 | 0.8400        | 2.85   |
| --  | Method 027.05 | --    | 098 | 257.00 R      | 1.16   | 297 | 252.50        | .92    | 042 | 259.00        | .87    | 609 | 0.8300 R      | 2.61   |
| 042 | 0.2690        | 2.38  | 013 | 255.50        | .95    | 265 | 251.50        | .87    | 186 | 258.65        | .78    | 179 | 0.8215        | 2.28   |
| 572 | 0.2505 R      | 1.59  | 646 | 256.01        | .94    | 414 | 245.50        | .77    | 038 | 257.00        | .67    | 108 | 0.8000 R      | 1.73   |
| 693 | 0.2535        | 1.38  | 175 | 254.00        | .84    | 560 | 250.00        | .76    | 017 | 252.00        | .39    | 669 | 0.7955        | 1.47   |
| 160 | 0.2452        | .98   | 563 | 254.15        | .81    | 029 | 250.00        | .75    | 357 | 253.00        | .25    | 623 | 0.7885        | 1.26   |
| 035 | 0.2450        | .89   | 504 | 247.00        | .47    | 083 | 244.50        | .40    | Avg | 250.15        |        | 629 | 0.7850        | 1.24   |
| 037 | 0.2450        | .89   | 178 | 249.00        | .47    | 164 | 244.20        | .37    | 096 | 250.00        | -.01   | 035 | 0.7850        | 1.16   |
| 726 | 0.2450        | .89   | 693 | 242.00        | .46    | 187 | 243.94        | .35    | 628 | 249.50        | -.07   | 710 | 0.7850        | 1.16   |
| 186 | 0.2436        | .74   | 505 | 248.00        | .43    | 049 | 243.17        | .34    | 037 | 247.40        | -.29   | 065 | 0.7835        | 1.11   |
| 567 | 0.2400        | .50   | 590 | 245.50        | .25    | 171 | 241.00        | .21    | 202 | 247.00        | -.30   | 599 | 0.7750        | .96    |
| 309 | 0.2400        | .50   | 529 | 245.40        | .24    | 185 | 240.50        | .13    | 021 | 248.00        | -.45   | 650 | 0.7700        | .75    |
| 357 | 0.2350        | .37   | 669 | 244.42        | .19    | 407 | 240.50        | .13    | 045 | 250.00        | -.54   | 350 | 0.7673        | .60    |
| 199 | 0.2360        | .24   | 278 | 244.00        | .16    | 242 | 240.00        | .11    | 353 | 244.90        | -.54   | 651 | 0.7650        | .54    |
| Avg | 0.2323        |       | Avg | 241.78        |        | 148 | 239.00        | .07    | 154 | 245.00        | -.64   | 728 | 0.7600        | .49    |
| 017 | 0.2300        | -.15  | 035 | 241.50        | -.10   | 229 | 239.00        | .07    | 169 | 242.00        | -.73   | 620 | 0.7625        | .46    |
| 110 | 0.2300        | -.15  | 722 | 241.74        | -.17   | Avg | 238.58        |        | 345 | 238.16        | -1.11  | 018 | 0.7605        | .40    |
| 616 | 0.2285        | -.25  | 004 | 237.50        | -.30   | 598 | 238.50        | -.03   | 616 | 238.00        | -1.12  | 098 | 0.7600        | .38    |
| 038 | 0.2285        | -.25  | 350 | 237.35        | -.31   | 510 | 236.50        | -.14   | 106 | 236.50        | -1.22  | 305 | 0.7600        | .38    |
| 021 | 0.2277        | -.30  | 548 | 236.12        | -.39   | 610 | 234.35        | -.28   | 366 | 237.00        | -1.33  | 567 | 233.00        | -1.53  |
| 154 | 0.2294        | -.37  | 307 | 236.00        | -.40   | 011 | 233.60        | -.40   | 567 | 233.00        | -1.53  | 009 | 237.05 R      | -1.86  |
| 202 | 0.2200        | -.80  | 656 | 233.62        | -.54   | 512 | 231.25        | -.49   | 009 | 237.05 R      | -1.86  | 588 | 0.7580        | .34    |
| 366 | 0.2200        | -.80  | 014 | 233.50        | -.57   | 413 | 231.50        | -.55   | 175 | 0.7500        | .32    | 001 | 0.7502        | .21    |
| 045 | 0.2200        | -.80  | 511 | 233.00        | -.58   | 553 | 229.00        | -.68   | 619 | 0.7500        | .20    |     |               |        |
| 353 | 0.2200        | -.80  | 674 | 236.00 R      | -.65   | 026 | 226.50        | -.80   |     |               |        |     |               |        |
| 096 | 0.2200 R      | -1.03 |     |               |        | 144 | 221.80        | -1.11  |     |               |        |     |               |        |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index  |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|
| --  | Method 031.01 | --    | --  | Method 031.01 | --    | --  | Method 031.05 | --    | --  | Method 031.05 | --    | --  | Method 032.01 | --     |
| 169 | 0.7500        | .07   | 363 | 0.6400 s      | -3.34 | 186 | 0.7684        | .76   | 366 | 0.7100        | -.96  | 307 | 1.1350 R      | .87    |
| 679 | 0.7500        | .07   |     |               |       | 512 | 0.7677        | .74   | 121 | 0.7090        | -1.00 | 720 | 1.1900        | .85    |
| Avg | 0.7477        |       | --  | Method 031.02 | --    | 164 | 0.7675        | .73   | 226 | 0.7100        | -1.01 | 205 | 1.1900        | .81    |
| 723 | 0.7465        | -.06  | 004 | 0.7500        | 1.27  | 021 | 0.7643        | .64   | 027 | 0.7055        | -1.10 | 619 | 1.1750        | .76    |
| 722 | 0.7450        | -.09  | 013 | 0.7550        | 1.24  | 049 | 0.7500        | .63   | 309 | 0.7075        | -1.10 | 529 | 1.1750        | .61    |
| 026 | 0.7450        | -.18  | 011 | 0.7483        | .35   | 110 | 0.7600        | .51   | 051 | 0.7050        | -1.12 | 278 | 1.1700        | .56    |
| 354 | 0.7450        | -.18  | Avg | 0.7455        |       | 598 | 0.7550        | .39   | 572 | 0.7095        | -1.18 | 650 | 1.1550        | .35    |
| 194 | 0.7450        | -.18  | 014 | 0.7445        | -.21  | 035 | 0.7550        | .39   | 645 | 0.7058        | -1.39 | 098 | 1.1400        | .30    |
| 233 | 0.7450        | -.18  | 043 | 0.7400        | -.63  | 265 | 0.7500        | .37   | 242 | 0.6900        | -1.55 | 670 | 1.1300        | .13    |
| 019 | 0.7450        | -.18  | 505 | 0.7350        | -1.34 | 298 | 0.7500        | .37   | 028 | 0.6850        | -1.71 | 035 | 1.1350        | .10    |
| 263 | 0.7412        | -.20  |     |               |       | 083 | 0.7450        | .16   | 520 | 0.7000 R      | -1.73 | Avg | 1.1293        |        |
| 626 | 0.7400        | -.24  | --  | Method 031.03 | --    | 171 | 0.7450        | .16   | 009 | 0.6870 R      | -2.09 | 563 | 1.1200        | -.20   |
| 621 | 0.7400        | -.24  | 504 | 0.7595        | .90   | 185 | 0.7460        | .13   | 682 | 0.6700        | -2.14 | 350 | 1.1078        | -.29   |
| 152 | 0.7400        | -.24  | 033 | 0.7555        | .85   | 345 | 0.7455        | .11   | 106 | 0.6135 s      | -3.81 | 609 | 1.0950        | -.46   |
| 607 | 0.7387        | -.33  | 208 | 0.7565        | .85   | Avg | 0.7427        |       |     |               |       | 653 | 1.0950        | -.46   |
| 665 | 0.7350        | -.42  | 043 | 0.7500        | .52   | 297 | 0.7400        | -.08  | --  | Method 031.06 | --    | 038 | 1.0900        | -.58   |
| 529 | 0.7350        | -.42  | 026 | 0.7450        | .38   | 089 | 0.7400        | -.08  | 138 | 0.7550        | .72   | 354 | 1.0850        | -.62   |
| 278 | 0.7350        | -.42  | Avg | 0.7364        |       | 037 | 0.7400        | -.08  | 686 | 0.7500        | .63   | 675 | 1.0100        | -1.58  |
| 646 | 0.7350        | -.42  | 047 | 0.7250        | -.48  | 407 | 0.7400        | -.08  | Avg | 0.7333        |       | 548 | 0.9796        | -1.99  |
| 038 | 0.7340        | -.42  | 307 | 0.7150        | -.84  | 144 | 0.7380        | -.25  | 536 | 0.6950        | -1.26 | 710 | 0.9750        | -2.05  |
| 573 | 0.7345        | -.44  | 048 | 0.6850        | -1.98 | 616 | 0.7400        | -.25  |     |               |       | 142 | 0.8050 S      | -4.31  |
| 647 | 0.7350        | -.61  |     |               |       | 045 | 0.7350        | -.27  | --  | Method 031.99 | --    | 591 | 0.5600 s      | -7.55  |
| 674 | 0.7350        | -.61  | --  | Method 031.05 | --    | 148 | 0.7335        | -.28  | 724 | 1.0100 S      | 5.22  |     |               |        |
| 511 | 0.7300        | -.63  | 300 | 0.9222 s      | 7.97  | 413 | 0.7400        | -.31  | 631 | 0.8700 S      | 2.54  | --  | Method 032.02 | --     |
| 034 | 0.7300        | -.63  | 003 | 0.8300        | 2.58  | 357 | 0.7300        | -.37  | 729 | 0.8100        | 1.36  | 305 | 1.3150 s      | 4.79   |
| 178 | 0.7400 R      | -.66  | 160 | 0.8249        | 2.44  | 628 | 0.7250        | -.54  | 676 | 0.8090        | 1.33  | 169 | 1.2200        | 1.44   |
| 653 | 0.7265        | -.66  | 405 | 0.8000        | 1.72  | 229 | 0.7250        | -.54  | 552 | 0.7650        | .49   | 588 | 1.1870        | .30    |
| 205 | 0.7260        | -.67  | 693 | 0.7960        | 1.61  | 553 | 0.7215        | -.63  | 628 | 0.7600        | .43   | 590 | 1.1850        | .28    |
| 548 | 0.7235        | -.75  | 358 | 0.7900        | 1.51  | 199 | 0.7205        | -.66  | 590 | 0.7550        | .30   | Avg | 1.1789        |        |
| 658 | 0.7234        | -.76  | 074 | 0.7900        | 1.43  | 187 | 0.7202        | -.66  | Avg | 0.7402        |       | 665 | 1.1700        | -.31   |
| 675 | 0.7150        | -1.02 | 042 | 0.7890        | 1.37  | 353 | 0.7200        | -.67  | 673 | 0.7200        | -.44  | 504 | 1.1750        | -.54   |
| 622 | 0.7105        | -1.15 | 294 | 0.7850        | 1.26  | 560 | 0.7300        | -.67  | 725 | 0.6978        | -.83  | 129 | 1.1365        | -1.70  |
| 039 | 0.7047        | -1.34 | 550 | 0.7535 R      | 1.15  | 202 | 0.7200        | -.73  | 692 | 0.6800        | -1.16 | 108 | 0.7900 s      | -13.62 |
| 596 | 0.7100 R      | -1.49 | 726 | 0.7800        | 1.14  | 567 | 0.7200        | -.73  | 588 | 0.6650        | -1.46 |     |               |        |
| 687 | 0.6950        | -1.63 | 414 | 0.7650        | .99   | 100 | 0.7200        | -.73  |     |               |       | --  | Method 032.05 | --     |
| 633 | 0.6938        | -1.66 | 038 | 0.7730        | .92   | 510 | 0.7150        | -.83  | --  | Method 032.01 | --    | 294 | 1.2750        | 2.19   |
| 689 | 0.6900        | -1.78 | 610 | 0.7720        | .88   | 154 | 0.7195        | -.84  | 175 | 1.2400        | 1.47  | 405 | 1.2650        | 2.02   |
| 010 | 0.6900        | -1.81 | 029 | 0.7670        | .83   | 017 | 0.7150        | -.93  | 208 | 1.2325        | 1.37  | 037 | 1.2400        | 1.61   |
| 142 | 0.6900        | -1.81 | 096 | 0.7600        | .78   | 190 | 0.7300 R      | -.96  | 656 | 1.2250        | 1.29  | 572 | 1.2350        | 1.52   |

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

Laboratory Averages & Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index  | Lab | Average*      | Index  |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|-----|---------------|--------|
| --  | Method 032.05 | --    | --  | Method 032.05 | --    | --  | Method 033.00 | --    | --  | Method 033.01 | --     | --  | Method 034.01 | --     |
| 038 | 1.2300        | 1.44  | 366 | 1.1100        | -.61  | 675 | 1.4100        | -.27  | 021 | 1.4400        | -.87   | 560 | 1.1250        | .87    |
| 726 | 1.2250        | 1.35  | 110 | 1.0950        | -.85  | 511 | 1.3850        | -.46  | 164 | 1.4350        | -.99   | Avg | 1.1000        |        |
| 414 | 1.1800 R      | 1.32  | 616 | 1.0950        | -.88  | 353 | 1.4000        | -.53  | 633 | 1.4333        | -1.04  | 038 | 1.0750        | -.87   |
| 560 | 1.2150        | 1.18  | 003 | 1.0850        | -1.01 | 208 | 1.3750        | -.55  | 038 | 1.4300        | -1.15  |     |               |        |
| 186 | 1.2141        | 1.18  | 553 | 1.0850        | -1.01 | 298 | 1.3700        | -.61  | 029 | 1.4300        | -1.21  | --  | Method 034.04 | --     |
| 083 | 1.2100        | 1.11  | 345 | 1.0850        | -1.09 | 539 | 1.3000        | -1.50 | 307 | 1.4350 R      | -1.32  | 610 | 1.1390        | 1.44   |
| 160 | 1.2099        | 1.10  | 029 | 1.0750        | -1.22 | 628 | 1.2250        | -2.30 | 096 | 1.4150        | -1.70  | 169 | 1.1100        | 1.08   |
| 520 | 1.1500 R      | .85   | 187 | 1.0724        | -1.22 | 596 | 1.0000 s      | -4.94 | 413 | 1.3950        | -2.41  | 164 | 1.0650        | .59    |
| 096 | 1.1500 R      | .85   | 353 | 1.0700        | -1.27 | 679 | 0.9900 s      | -5.05 | 140 | 1.3600 s      | -3.68  | 026 | 1.0350        | .23    |
| 021 | 1.1925        | .81   | 051 | 1.0700        | -1.27 |     |               |       | 686 | 1.2400 s      | -7.97  | Avg | 1.0158        |        |
| 202 | 1.1900        | .76   | 300 | 1.0790        | -1.35 | --  | Method 033.01 | --    | 510 | 0.5150 s      | -33.96 | 572 | 1.0000        | -.21   |
| 185 | 1.1855        | .69   | 550 | 1.1055 R      | -1.35 | 226 | 1.5650 s      | 3.69  |     |               |        | 619 | 0.9610        | -.66   |
| 154 | 1.1525        | .62   | 009 | 1.0645        | -1.37 | 229 | 1.5250        | 2.26  | --  | Method 033.03 | --     | 010 | 0.9400        | -.87   |
| 106 | 1.1600        | .56   | 645 | 1.0598        | -1.44 | 202 | 1.5200        | 2.08  | 598 | 1.8600 S      | 6.10   | 208 | 0.8765        | -1.62  |
| 042 | 1.1750        | .51   | 309 | 1.0950 R      | -1.96 | 278 | 1.5000        | 1.36  | 726 | 1.7500 S      | 4.64   |     |               |        |
| 357 | 1.1750        | .51   | 242 | 1.0200        | -2.10 | 106 | 1.4850        | .98   | 190 | 1.7150 S      | 4.18   | --  | Method 034.05 | --     |
| 413 | 1.1700        | .45   | 510 | 1.0200        | -2.10 | 026 | 1.4850        | .84   | 144 | 1.7050 S      | 4.17   | 693 | 2.0150 s      | 6.12   |
| 226 | 1.1650        | .42   | 693 | 0.8435 s      | -5.07 | 610 | 1.4850        | .82   | 122 | 1.4900        | 1.19   | 047 | 1.2800        | 1.14   |
| 026 | 1.1670        | .37   |     |               |       | 019 | 1.4800        | .73   | 048 | 1.4050        | .21    | 309 | 1.1900        | .74    |
| 567 | 1.1550        | .30   | --  | Method 032.99 | --    | 242 | 1.4800        | .73   | Avg | 1.4000        |        | Avg | 1.0813        |        |
| 199 | 1.1630        | .30   | 725 | 1.1725        | .89   | 205 | 1.4800        | .73   | 505 | 1.3800        | -.71   | 414 | 0.9700        | -.63   |
| 011 | 1.1509        | .26   | Avg | 1.1288        |       | 175 | 1.4800        | .73   | 265 | 1.3250        | -1.23  | 154 | 0.8850        | -1.12  |
| 297 | 1.1500        | .19   | 692 | 1.0850        | -.84  | 098 | 1.4750        | .71   |     |               |        |     |               |        |
| 229 | 1.1550        | .19   |     |               |       | 590 | 1.4750        | .50   | --  | Method 033.05 | --     | --  | Method 034.99 | --     |
| 144 | 1.1550        | .19   | --  | Method 033.00 | --    | 042 | 1.4650        | .21   | 171 | 1.3500        | .71    | 721 | 1.3000        | .98    |
| 407 | 1.1500        | .08   | 013 | 1.6800 S      | 3.03  | 354 | 1.4650        | .21   |     |               |        | Avg | 1.2000        |        |
| 148 | 1.1500        | .08   | 169 | 1.6300        | 2.47  | Avg | 1.4621        |       | --  | Method 033.99 | --     | 096 | 1.1000        | -.73   |
| Avg | 1.1451        |       | 588 | 1.5250        | 1.22  | 178 | 1.4600        | -.08  | 723 | 1.5505 S      | 5.13   |     |               |        |
| 171 | 1.1450        | -.08  | 689 | 1.5000        | .93   | 185 | 1.4586        | -.13  | 552 | 1.6800 S      | 3.63   | --  | Method 035.00 | --     |
| 035 | 1.1400        | -.09  | 045 | 1.4850        | .77   | 011 | 1.4599        | -.13  | 051 | 1.5250        | 1.63   | 596 | 4.0000 s      | 147.74 |
| 164 | 1.1345        | -.18  | 567 | 1.4550        | .66   | 039 | 1.4582        | -.20  | 725 | 1.4150        | .75    | 263 | 0.3433        | 1.63   |
| 017 | 1.1400        | -.19  | 504 | 1.4350        | .24   | 199 | 1.4550        | -.31  | Avg | 1.4150        |        | 670 | 0.3400        | 1.55   |
| 358 | 1.1400        | -.19  | 309 | 1.4400        | .22   | 194 | 1.4550        | -.31  | 673 | 1.4000        | -.21   | 675 | 0.3400        | 1.55   |
| 045 | 1.1350        | -.19  | 366 | 1.4350        | .17   | 559 | 1.4550        | -.31  | 630 | 1.4000        | -.21   | 710 | 0.3350        | 1.31   |
| 610 | 1.1340        | -.20  | Avg | 1.4214        |       | 233 | 1.4600        | -.37  | 619 | 1.3350        | -1.10  | 609 | 0.3250        | .92    |
| 100 | 1.1250        | -.35  | 160 | 1.4200        | -.02  | 650 | 1.4600        | -.37  | 003 | 0.8750 S      | -7.39  | 122 | 0.3200        | .70    |
| 628 | 1.1250        | -.35  | 674 | 1.4100        | -.18  | 100 | 1.4600        | -.37  | 722 | 0.3035 S      | -15.21 | 142 | 0.3200        | .70    |
| 049 | 1.1350        | -.45  | 693 | 1.4065        | -.19  | 004 | 1.4450        | -.64  |     |               |        | 175 | 0.3150        | .54    |
| 265 | 1.1150        | -.51  | 407 | 1.4000        | -.25  | 629 | 1.4450        | -.64  |     |               |        | 278 | 0.3100        | .50    |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index | Lab | Average*      | Index  |
|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|-------|-----|---------------|--------|
| --  | Method 035.00 | --    | --  | Method 035.03 | --    | --  | Method 035.03 | --    | --  | Method 036.03 | --    | --  | Method 037.01 | --     |
| 098 | 0.3100        | .50   | 550 | 0.3155        | 1.63  | 345 | 0.2835        | -.87  | 265 | 0.3450 s      | 4.94  | 590 | 518.00        | 1.03   |
| 363 | 0.3050        | .22   | 693 | 0.3090 R      | 1.62  | 645 | 0.2819        | -1.02 | 169 | 0.2800        | 1.94  | 098 | 513.00        | .94    |
| 233 | 0.3050        | .22   | 100 | 0.3150        | 1.51  | 242 | 0.2800        | -1.12 | 154 | 0.2631 R      | 1.33  | 208 | 510.50        | .77    |
| 529 | 0.3070        | .20   | 037 | 0.3150        | 1.51  | 035 | 0.2800        | -1.12 | 042 | 0.2630        | 1.21  | 178 | 490.50 R      | .75    |
| 722 | 0.3035        | .04   | 560 | 0.3100        | 1.21  | 300 | 0.2895 R      | -1.15 | 187 | 0.2623        | 1.16  | 669 | 506.48        | .61    |
| Avg | 0.3025        |       | 154 | 0.3086        | 1.05  | 353 | 0.2730        | -1.66 | 021 | 0.2518        | .69   | 354 | 503.90        | .58    |
| 307 | 0.3000        | -.10  | 186 | 0.3088        | 1.04  | 628 | 0.2750 R      | -1.86 | 160 | 0.2499        | .61   | 563 | 502.95        | .47    |
| 152 | 0.2950        | -.30  | 202 | 0.3050        | .82   | 520 | 0.2750 R      | -1.86 | 560 | 0.2495        | .60   | 004 | 500.50        | .42    |
| 591 | 0.2950        | -.36  | 414 | 0.3050        | .82   | 110 | 0.2700        | -1.87 | 106 | 0.2460        | .44   | 038 | 496.50        | .31    |
| 354 | 0.2950        | -.36  | 726 | 0.3050        | .82   | 366 | 0.2650        | -2.27 | 038 | 0.2435        | .33   | 591 | 497.28        | .28    |
| 619 | 0.3025        | -.38  | 616 | 0.3035        | .63   | 265 | 0.2350 s      | -4.47 | 708 | 0.2430        | .32   | 619 | 496.00        | .22    |
| 035 | 0.3000        | -.41  | 011 | 0.3010        | .48   | 051 | 0.2050 s      | -6.69 | 171 | 0.2400        | .25   | 307 | 490.00        | .22    |
| 205 | 0.2920        | -.43  | 229 | 0.3000        | .36   | --  | Method 035.05 | --    | 294 | 0.2400        | .17   | 175 | 493.00        | .15    |
| 038 | 0.2910        | -.47  | 682 | 0.3000        | .36   | 106 | 0.3860 s      | 3.61  | 357 | 0.2400        | .17   | 620 | 491.39        | .11    |
| 208 | 0.2835        | -.76  | 083 | 0.3000        | .36   | 294 | 0.3350        | 1.53  | 186 | 0.2365        | .07   | 529 | 492.20        | .08    |
| 653 | 0.2720        | -1.22 | 413 | 0.3000        | .36   | 590 | 0.3200        | .90   | Avg | 0.2361        |       | 505 | 490.50        | .03    |
| 650 | 0.2650        | -1.51 | 199 | 0.2980        | .26   | 588 | 0.3180        | .82   | 693 | 0.2325        | -.17  | Avg | 489.98        |        |
| 658 | 0.2538        | -1.95 | 021 | 0.2965        | .16   | 169 | 0.3100        | .49   | 202 | 0.2350        | -.23  | 350 | 485.85        | -.15   |
| 548 | 0.2590 R      | -1.96 | 038 | 0.2960        | .10   | Avg | 0.2980        |       | 045 | 0.2250        | -.54  | 035 | 480.00        | -.37   |
| 656 | 0.2450        | -2.31 | 164 | 0.2961        | .07   | 504 | 0.2965        | -.16  | 300 | 0.2215        | -.73  | 722 | 477.82        | -.44   |
| 720 | 0.2650 s      | -2.66 | Avg | 0.2952        |       | 665 | 0.2950        | -.24  | 353 | 0.2150        | -.96  | 588 | 474.50        | -.57   |
| --  | Method 035.01 | --    | 610 | 0.2920        | -.28  | 049 | 0.2850        | -.57  | 366 | 0.2000        | -1.60 | 548 | 474.21        | -.62   |
| 686 | 0.3190        | 1.35  | 185 | 0.2914        | -.28  | 160 | 0.2909        | -.62  | 616 | 0.1970        | -1.73 | 675 | 480.60 R      | -.77   |
| 563 | 0.3095        | .43   | 309 | 0.2950        | -.37  | 129 | 0.2800        | -.76  | 345 | 0.1865        | -2.19 | 710 | 459.50        | -1.11  |
| Avg | 0.3089        |       | 358 | 0.2950        | -.37  | 108 | 0.2500        | -2.01 | 550 | 0.1335 s      | -4.54 | 278 | 461.30        | -1.21  |
| 647 | 0.3050        | -.78  | 096 | 0.2950        | -.37  | --  | Method 035.99 | --    | --  | Method 036.04 | --    | 511 | 455.00        | -1.27  |
| 138 | 0.3020        | -.93  | 017 | 0.2950        | -.37  | 588 | 0.4800 S      | 20.40 | 226 | 0.2400        | .91   | 674 | 445.50        | -1.62  |
| --  | Method 035.02 | --    | 029 | 0.2940        | -.38  | 725 | 0.2956        | .91   | 510 | 0.2300        | .91   | 653 | 435.32        | -1.99  |
| 305 | 0.3050        | .71   | 567 | 0.2900        | -.38  | Avg | 0.2878        |       | Avg | 0.2300        |       | 646 | 432.20        | -2.11  |
| --  | Method 035.03 | --    | 089 | 0.2900        | -.38  | 692 | 0.2800        | -.82  | 414 | 0.2200        | -.91  | 658 | 336.75 s      | -5.58  |
| 510 | 0.4225 s      | 9.43  | 144 | 0.2905        | -.43  | --  | Method 036.00 | --    | --  | Method 037.01 | --    | 596 | 134.00 s      | -12.95 |
| 187 | 0.3481 s      | 3.92  | 148 | 0.2865        | -.64  | 307 | 0.2800        | .87   | 720 | 674.31 s      | 8.82  | 029 | 536.50        | 2.24   |
| 572 | 0.3325 A      | 2.89  | 553 | 0.2860        | -.68  | Avg | 0.2450        |       | 305 | 597.98 s      | 4.03  | 265 | 517.50        | 1.34   |
| 405 | 0.3300        | 2.68  | 171 | 0.2850        | -.76  | 297 | 0.2100        | -.87  | 014 | 537.00        | 1.80  | 003 | 515.50        | 1.27   |
| 598 | 0.3150 R      | 1.84  | 407 | 0.2840        | -.83  | --  | Method 036.00 | --    | 656 | 534.46        | 1.63  | 414 | 509.50        | 1.10   |
| 042 | 0.3165        | 1.65  | 298 | 0.2900        | -.83  | 504 | 527.00        | 1.42  | 504 | 527.00        | 1.42  | 598 | 505.50        | .82    |
|     |               |       | 045 | 0.2850        | -.84  | 013 | 517.50        | 1.12  | 074 | 506.00        | .79   |     |               |        |
|     |               |       | 226 | 0.2850        | -.84  |     |               |       |     |               |       |     |               |        |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab | Average*      | Index | Lab | Average*      | Index  | Lab | Average*      | Index | Lab | Average*      | Index   | Lab | Average*      | Index |
|-----|---------------|-------|-----|---------------|--------|-----|---------------|-------|-----|---------------|---------|-----|---------------|-------|
| --  | Method 037.03 | --    | --  | Method 037.05 | --     | --  | Method 038.00 | --    | --  | Method 054.01 | --      | --  | Method 108.02 | --    |
| 026 | 505.00        | .77   | 027 | 509.04        | .51    | 560 | 2.5050        | -1.18 | 013 | 4.6945        | -1.30   | 675 | 1.7350        | .87   |
| 171 | 502.50        | .62   | 096 | 500.00        | .37    | 021 | 2.4500        | -1.28 | 696 | 4.6000        | -1.42   | Avg | 1.3175        |       |
| 413 | 500.00        | .60   | 021 | 507.20        | .30    |     |               |       | 208 | 0.9000        |         | 208 | 0.9000        | -.87  |
| 100 | 501.50        | .59   | 726 | 503.43        | .17    | --  | Method 038.99 | --    | --  | Method 054.99 | --      |     |               |       |
| 560 | 501.00        | .55   | 190 | 501.12        | .07    | 504 | 3.6300 S      | 3.03  | 027 | 7.8228        | .71     | --  | Method 109.02 | --    |
| 185 | 500.00        | .50   | Avg | 499.26        |        | 721 | 3.3900        | .87   |     |               |         | 567 | 166.00        | 2.02  |
| 083 | 498.00        | .40   | 202 | 499.00        | -.07   | Avg | 3.1950        |       | --  | Method 104.00 | --      | 096 | 123.50        | .53   |
| 297 | 492.00        | .35   | 045 | 494.00        | -.19   | 164 | 3.0000        | -.86  | 171 | 7.3000        | .71     | 675 | 121.54        | .46   |
| 011 | 494.50        | .24   | 693 | 491.00        | -.34   |     |               |       |     |               |         | 610 | 116.65        | .32   |
| 229 | 491.00        | .08   | 199 | 489.75        | -.35   | --  | Method 039.01 | --    | --  | Method 105.00 | --      | 208 | 109.33        | .05   |
| Avg | 489.62        |       | 106 | 488.00        | -.43   | 164 | 3.2500        | .71   | 160 | 2.8050        | .71     | Avg | 108.33        |       |
| 405 | 487.50        | -.24  | 037 | 487.50        | -.43   |     |               |       |     |               |         | 619 | 106.50        | -.07  |
| 164 | 484.55        | -.24  | 353 | 487.95        | -.44   | --  | Method 039.02 | --    | --  | Method 106.00 | --      | 676 | 107.80        | -.16  |
| 610 | 482.95        | -.32  | 616 | 484.50        | -.54   | 021 | 4.8500 s      | 4.89  | 171 | 5.1500        | -.71    | 563 | 95.638        | -.45  |
| 148 | 483.00        | -.35  | 294 | 482.82        | -.60   | 560 | 3.5500        | 1.17  |     |               |         | 199 | 84.700        | -.82  |
| 187 | 482.18        | -.36  | 366 | 466.50        | -1.21  | 154 | 3.7500        | .72   | --  | Method 106.02 | --      | 560 | 51.650        | -1.98 |
| 226 | 479.50        | -.53  | 345 | 446.20        | -1.94  | 045 | 3.6500        | .62   | 567 | 4044.0 s      | 3752.64 |     |               |       |
| 049 | 478.45        | -.54  | 154 | 444.00        | -2.03  | Avg | 3.5406        |       | 676 | 10.200 s      | 6.19    | --  | Method 120.00 | --    |
| 512 | 473.80        | -.80  | 009 | 452.65 R      | -2.06  | 011 | 3.2125        | -1.11 | 619 | 5.6250        | 1.95    | 038 | 1.0730 s      | 2.82  |
| 358 | 477.34        | -.88  |     |               |        |     |               |       | 670 | 5.2050        | 1.56    | 676 | 1.0645        | 1.99  |
| 407 | 466.00        | -1.13 | --  | Method 037.99 | --     | --  | Method 040.00 | --    | 199 | 4.4000        | .82     | 160 | 1.0342        | 1.33  |
| 510 | 466.00        | -1.21 | 721 | 552.00        | 1.48   | 560 | 7.5950        | .71   | 675 | 4.3900        | .81     | Avg | 0.9720        |       |
| 553 | 457.00        | -1.56 | Avg | 494.96        |        |     |               |       | 021 | 4.0950        | .63     | 350 | 0.9720        | -.13  |
| 144 | 451.25        | -1.84 | 607 | 492.47        | -.06   | --  | Method 041.00 | --    | 563 | 4.1830        | .62     | 571 | 0.9660        | -.13  |
| 242 | 443.00        | -2.23 | 121 | 479.38        | -.54   | 154 | 1.4500        | .64   | 160 | 3.9550        | .43     | 684 | 0.9545        | -.38  |
| 550 | 448.84 R      | -2.23 | 692 | 456.00        | -1.01  | 011 | 1.4765        | .45   | 722 | 3.6850        | .17     | 619 | 0.9530        | -.43  |
| 520 | 453.00 R      | -2.26 | 725 | 4.7000 S      | -12.68 | Avg | 1.4422        |       | Avg | 3.5186        |         | 652 | 0.9550        | -.49  |
| 300 | 422.15 s      | -3.44 |     |               |        | 021 | 1.4000        | -1.37 | 096 | 2.9500        | -.55    | 644 | 0.9340        | -.81  |
|     |               |       | --  | Method 038.00 | --     |     |               |       | 003 | 3.4300 R      | -.57    | 675 | 0.9150        | -1.23 |
| --  | Method 037.05 | --    | 121 | 3.6850 s      | 4.27   | --  | Method 054.01 | --    | 004 | 2.9250        | -.58    | 504 | 0.9300 R      | -1.40 |
| 038 | 610.50 s      | 4.08  | 045 | 3.1500        | 1.67   | 003 | 7.1250        | 1.64  | 208 | 2.9800        | -.58    |     |               |       |
| 572 | 554.50 R      | 2.29  | 096 | 3.0000        | 1.03   | 038 | 6.7900        | 1.24  | 038 | 2.7550        | -.71    | --  | Method 120.01 | --    |
| 309 | 561.00        | 2.27  | 693 | 2.9600        | .90    | 027 | 6.6119        | 1.02  | 560 | 2.5500        | -.90    | 710 | 1.0050        | .71   |
| 160 | 536.00        | 1.36  | 169 | 2.8700        | .50    | 028 | 5.7750        | .09   | 616 | 2.3700        | -1.06   |     |               |       |
| 628 | 533.50        | 1.26  | Avg | 2.7525        |        | Avg | 5.7691        |       | 028 | 2.3650        | -1.07   | --  | Method 120.05 | --    |
| 017 | 531.00        | 1.17  | 038 | 2.7500        | -.21   | 010 | 5.6500        | -.14  | 242 | 1.8650        | -1.53   | 626 | 1.0450        | .71   |
| 567 | 505.50 R      | .89   | 154 | 2.6500        | -.48   | 218 | 5.5950        | -.23  |     |               |         |     |               |       |
| 169 | 522.00        | .86   | 510 | 2.6500        | -.48   | 047 | 5.5400        | -.28  |     |               |         |     |               |       |
| 357 | 517.50        | .67   | 011 | 2.5395        | -1.02  | 001 | 5.3100        | -.60  |     |               |         |     |               |       |

\* 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 121.00 | --    | --  | Method 122.05 | --    | --  | Method 126.00 | --    | --  | Method 127.05 | --    | --  | Method 129.01 | --    |
| 038 | 1.4385 R      | 2.31  | 626 | 2.1650        | .71   | 038 | 0.9750 s      | 5.16  | 626 | 0.5350        | .71   | 710 | 1.5850        | .71   |
| 676 | 1.4415        | 1.64  |     |               |       | 676 | 0.9130 R      | 1.73  |     |               |       |     |               |       |
| 619 | 1.3950        | .99   | --  | Method 124.00 | --    | 619 | 0.8990        | .88   | --  | Method 128.00 | --    | --  | Method 129.05 | --    |
| 571 | 1.3650        | .61   | 675 | 0.6150 s      | 7.86  | 160 | 0.8987        | .86   | 038 | 0.8305 R      | 1.70  | 626 | 1.6400        | .00   |
| 652 | 1.3350        | .38   | 038 | 0.3940 R      | 2.04  | 652 | 0.8950        | .73   | 652 | 0.8900        | 1.53  |     |               |       |
| 684 | 1.3490        | .36   | 684 | 0.3820        | 1.53  | 571 | 0.8860        | .35   | 619 | 0.8725        | 1.20  | --  | Method 130.00 | --    |
| 644 | 1.3415        | .25   | 160 | 0.3818        | 1.50  | 684 | 0.8860        | .33   | 504 | 0.8150        | .87   | 038 | 1.1735 R      | 2.43  |
| Avg | 1.3243        |       | 350 | 0.3275        | .02   | 350 | 0.8805        | .29   | 684 | 0.8225        | .39   | 676 | 1.1865        | 1.85  |
| 350 | 1.2635        | -.87  | Avg | 0.3268        |       | Avg | 0.8792        |       | 571 | 0.8205        | .24   | 619 | 1.1400        | .94   |
| 675 | 1.2500        | -1.05 | 571 | 0.3135        | -.36  | 644 | 0.8535        | -1.13 | 644 | 0.8160        | .13   | 350 | 1.1130        | .56   |
| 504 | 1.2700        | -1.24 | 652 | 0.3150        | -.52  | 675 | 0.8350        | -1.96 | Avg | 0.8104        |       | 571 | 1.1000        | .24   |
| 160 | 1.2327        | -1.31 | 644 | 0.3020        | -.68  | 504 | 0.8400 s      | -2.80 | 676 | 0.8050        | -.11  | 160 | 1.0967        | .08   |
|     |               |       | 504 | 0.3110        | -.74  |     |               |       | 350 | 0.7985        | -.24  | Avg | 1.0925        |       |
| --  | Method 121.01 | --    | 619 | 0.2820        | -1.22 | --  | Method 126.01 | --    | 160 | 0.7436        | -1.28 | 644 | 1.0855        | -.14  |
| 710 | 1.0050        | .71   |     |               |       | 710 | 0.9150        | .71   | 675 | 0.7200        | -1.74 | 684 | 1.0430        | -.96  |
|     |               |       | --  | Method 124.01 | --    |     |               |       |     |               |       | 675 | 1.0400        | -1.02 |
| --  | Method 121.05 | --    | 710 | 0.3250        | .71   | --  | Method 126.05 | --    | --  | Method 128.01 | --    | 652 | 1.0350        | -1.12 |
| 626 | 1.5050        | .71   |     |               |       | 626 | 0.9450        | .71   | 710 | 0.7950        | .71   | 504 | 1.0850        | -1.27 |
|     |               |       | --  | Method 125.00 | --    |     |               |       |     |               |       |     |               |       |
| --  | Method 122.00 | --    | 038 | 3.8300 s      | 3.55  | --  | Method 127.00 | --    | --  | Method 128.05 | --    | --  | Method 130.01 | --    |
| 676 | 2.4160 s      | 4.71  | 676 | 3.6010        | 1.06  | 675 | 0.6300        | 1.97  | 626 | 0.8900        | .00   | 710 | 1.1550        | .71   |
| 038 | 2.3430 s      | 4.27  | 684 | 3.5755        | .84   | 676 | 0.6265        | 1.74  |     |               |       |     |               |       |
| 619 | 2.1400        | 1.26  | 619 | 3.5500        | .67   | 038 | 0.5510        | .87   | --  | Method 129.00 | --    | --  | Method 130.05 | --    |
| 684 | 2.0890        | .68   | 652 | 3.5350        | .58   | Avg | 0.5404        |       | 038 | 1.6905 s      | 3.64  | 626 | 1.1400        | .71   |
| 644 | 2.0835        | .55   | 350 | 3.5095        | .40   | 619 | 0.5320        | -.17  | 619 | 1.5900        | 1.09  |     |               |       |
| 652 | 2.0600        | .26   | Avg | 3.4486        |       | 571 | 0.5325        | -.22  | 676 | 1.5585        | .61   | --  | Method 131.00 | --    |
| 571 | 2.0550        | .21   | 571 | 3.4300        | -.12  | 652 | 0.5350        | -.32  | 684 | 1.5580        | .60   | 675 | 0.3750 s      | 5.18  |
| Avg | 2.0390        |       | 644 | 3.4065        | -.28  | 350 | 0.5155        | -.50  | 571 | 1.5550        | .53   | 038 | 0.3065        | 1.50  |
| 350 | 1.9755        | -.79  | 675 | 3.3100        | -.99  | 644 | 0.5150        | -.51  | 350 | 1.5385        | .28   | 644 | 0.3200        | 1.40  |
| 675 | 2.0250        | -.82  | 504 | 3.2550 R      | -1.63 | 684 | 0.5055        | -.71  | 644 | 1.5365        | .23   | 676 | 0.3095        | .60   |
| 504 | 1.9250 R      | -1.92 | 160 | 3.1201        | -2.16 | 160 | 0.5019        | -.78  | 652 | 1.5250        | .09   | 571 | 0.3100        | .56   |
| 160 | 1.8838        | -1.93 |     |               |       | 504 | 0.5000        | -1.01 | Avg | 1.5229        |       | 652 | 0.3050        | .38   |
|     |               |       | --  | Method 125.01 | --    |     |               |       | 675 | 1.4600        | -1.02 | 684 | 0.3055        | .19   |
| --  | Method 122.01 | --    | 710 | 3.6300        | .71   | --  | Method 127.01 | --    | 504 | 1.4950 R      | -1.30 | Avg | 0.3033        |       |
| 710 | 2.0550        | .71   |     |               |       | 710 | 0.5100        | .00   | 160 | 1.3844        | -2.26 | 160 | 0.3016        | -.24  |
|     |               |       | --  | Method 125.05 | --    |     |               |       |     |               |       | 350 | 0.3025        | -.26  |
|     |               |       | 626 | 3.7750        | -.71  |     |               |       |     |               |       | 504 | 0.2897        | -1.43 |
|     |               |       |     |               |       |     |               |       |     |               |       | 619 | 0.2825        | -1.51 |

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

## Laboratory Averages &amp; Accuracy Indexes

| Lab                 | Average* | Index | Lab                 | Average* | Index | Lab                 | Average* | Index | Lab                 | Average* | Index | Lab | Average* | Index |
|---------------------|----------|-------|---------------------|----------|-------|---------------------|----------|-------|---------------------|----------|-------|-----|----------|-------|
| -- Method 131.01 -- |          |       | -- Method 133.05 -- |          |       | -- Method 135.01 -- |          |       | -- Method 138.00 -- |          |       |     |          |       |
| 710                 | 0.3100   | .00   | 626                 | 1.2250   | .71   | 710                 | 0.8050   | .71   | 038                 | 0.9870 R | 1.86  | 676 | 1.0085   | 1.16  |
| -- Method 131.05 -- |          |       | -- Method 134.00 -- |          |       | -- Method 135.05 -- |          |       | 504                 | 0.9700   | .97   | 350 | 0.9875   | .79   |
| 626                 | 0.3250   | .71   | 038                 | 1.1170 s | 2.85  | 626                 | 0.9050 S | .00   | 160                 | 0.9800   | .66   | 571 | 0.9580   | .33   |
| -- Method 132.00 -- |          |       | 160                 | 1.0055   | 1.29  | -- Method 136.00 -- |          |       | 644                 | 0.9580   | .29   | 619 | 0.9295   | -.25  |
| 038                 | 1.0045 s | 6.16  | 619                 | 0.9875   | 1.06  | 038                 | 0.2695   | .86   | Avg                 | 0.9403   |       | 684 | 0.9320   | -.31  |
| 676                 | 0.9750   | 2.09  | 652                 | 0.9300   | .49   | Avg                 | 0.2608   |       | 652                 | 0.8450   | -1.64 | 675 | 0.8350   | -1.77 |
| 675                 | 0.9450   | .83   | 684                 | 0.9425   | .46   | 684                 | 0.2520   | -.88  | -- Method 138.01 -- |          |       | 710 | 0.9750   | .71   |
| 350                 | 0.9495   | .76   | 571                 | 0.9345   | .36   | -- Method 136.01 -- |          |       | -- Method 138.05 -- |          |       | 626 | 1.0150   | -.71  |
| 619                 | 0.9395   | .08   | Avg                 | 0.9067   |       | 160                 | 0.3144   | 1.62  | -- Method 139.00 -- |          |       | 504 | 0.0500   | .00   |
| Avg                 | 0.9390   |       | 350                 | 0.8850   | -.28  | Avg                 | 0.2702   |       | -- Method 300.01 -- |          |       | 658 | 1.0500   | .78   |
| 571                 | 0.9390   | .00   | 644                 | 0.8815   | -.33  | 644                 | 0.2600   | -.35  | Avg                 | 0.8500   |       | 651 | 0.6500   | -.94  |
| 644                 | 0.9330   | -.37  | 676                 | 0.8485   | -.76  | 571                 | 0.2595   | -.37  | -- Method 137.01 -- |          |       |     |          |       |
| 160                 | 0.9299   | -.68  | 675                 | 0.8750 R | -.93  | 619                 | 0.2470   | -.79  | 710                 | 0.6200   | .00   |     |          |       |
| 684                 | 0.9205   | -1.03 | 504                 | 0.7450   | -2.09 | -- Method 136.99 -- |          |       | -- Method 137.05 -- |          |       |     |          |       |
| 652                 | 0.9200   | -1.10 | -- Method 134.01 -- |          |       | 504                 | 0.2250   | .71   | 626                 | 0.5900   | -.71  |     |          |       |
| 504                 | 0.9050 s | -2.90 | 710                 | 0.9450   | .71   | -- Method 137.00 -- |          |       |                     |          |       |     |          |       |
| -- Method 132.01 -- |          |       | -- Method 134.05 -- |          |       | 676                 | 0.7340   | 1.28  |                     |          |       |     |          |       |
| 710                 | 0.9850   | .71   | 626                 | 1.0250   | .71   | 160                 | 0.7295   | 1.19  |                     |          |       |     |          |       |
| -- Method 132.05 -- |          |       | -- Method 135.00 -- |          |       | 684                 | 0.6860   | .40   |                     |          |       |     |          |       |
| 626                 | 0.9850   | .71   | 038                 | 0.8235 s | 6.84  | Avg                 | 0.6650   |       |                     |          |       |     |          |       |
| -- Method 133.00 -- |          |       | 652                 | 0.7800   | 1.25  | 675                 | 0.6500   | -.45  |                     |          |       |     |          |       |
| 038                 | 1.3075 s | 3.62  | 676                 | 0.7795   | 1.13  | 644                 | 0.6400   | -.45  |                     |          |       |     |          |       |
| 619                 | 1.2450   | 1.57  | 684                 | 0.7780   | .75   | 350                 | 0.6305   | -.63  |                     |          |       |     |          |       |
| 676                 | 1.1965   | .84   | 350                 | 0.7775   | .71   | 504                 | 0.5850   | -1.58 |                     |          |       |     |          |       |
| 652                 | 1.1500   | .48   | Avg                 | 0.7692   |       | -- Method 137.01 -- |          |       |                     |          |       |     |          |       |
| 644                 | 1.1640   | .36   | 571                 | 0.7655   | -.32  | 710                 | 0.6200   | .00   |                     |          |       |     |          |       |
| 571                 | 1.1550   | .29   | 644                 | 0.7635   | -.49  | -- Method 137.05 -- |          |       |                     |          |       |     |          |       |
| 684                 | 1.1540   | .24   | 619                 | 0.7575   | -1.06 | 626                 | 0.5900   | -.71  |                     |          |       |     |          |       |
| Avg                 | 1.1440   |       | 160                 | 0.7521   | -1.46 |                     |          |       |                     |          |       |     |          |       |
| 160                 | 1.1168   | -.47  | 504                 | 0.7050 s | -6.21 |                     |          |       |                     |          |       |     |          |       |
| 675                 | 1.0800   | -1.01 | 675                 | 0.6650 s | -9.09 |                     |          |       |                     |          |       |     |          |       |
| 504                 | 1.0350   | -1.90 |                     |          |       |                     |          |       |                     |          |       |     |          |       |

\* 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 |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 000.99      | 2              | 0.0000           | 1.22              | 0.00                | 009.99      | 5              | 1.9860           | 4.53              | 0.25                |
| 001.00      | 7              | 1.2855           | 2.41              | 0.15                | 010.11      | 12             | -0.0170          | 0.98              | 0.09                |
| 001.03      | 4              | 0.0000           | 0.88              | 0.54                | 010.99      | 15             | 0.0000           | 1.01              | 0.13                |
| 001.07      | 46             | -0.1006          | 1.41              | 0.28                | 011.01      | 77             | -0.0428          | 1.30              | 0.26                |
| 001.99      | 17             | -0.4579          | 1.84              | 0.20                | 011.99      | 2              | 0.0000           | 1.19              | 0.21                |
| 002.00      | 3              | 0.0000           | 1.08              | 0.23                | 012.00      | 9              | 0.0000           | 1.01              | 0.18                |
| 002.01      | 9              | -0.1509          | 1.07              | 0.20                | 012.01      | 2              | 0.0000           | 0.78              | 0.67                |
| 002.02      | 13             | 0.0000           | 0.98              | 0.26                | 012.03      | 4              | 13.0687          | 26.14             | 3.81                |
| 002.04      | 6              | 0.0000           | 1.04              | 0.15                | 012.04      | 5              | 0.0000           | 1.05              | 0.12                |
| 002.05      | 21             | 0.1167           | 1.09              | 0.32                | 013.02      | 21             | -0.2266          | 1.47              | 0.32                |
| 002.06      | 118            | -0.0346          | 1.14              | 0.31                | 013.10      | 17             | -0.2255          | 1.21              | 0.20                |
| 002.08      | 6              | 0.0000           | 0.81              | 0.61                | 013.99      | 2              | 0.0000           | 1.22              | 0.09                |
| 002.10      | 10             | -1.2018          | 2.73              | 0.23                | 015.00      | 13             | 0.4009           | 1.47              | 0.30                |
| 002.11      | 16             | 0.0000           | 1.00              | 0.18                | 017.00      | 8              | 0.6243           | 1.94              | 0.43                |
| 002.99      | 7              | 0.0000           | 1.02              | 0.19                | 018.02      | 3              | 0.0000           | 1.11              | 0.07                |
| 003.00      | 29             | -0.3189          | 1.54              | 0.25                | 019.00      | 14             | -0.1133          | 1.06              | 0.59                |
| 003.06      | 23             | 0.2320           | 2.91              | 0.56                | 019.01      | 57             | 1.2111           | 9.26              | 0.36                |
| 003.09      | 29             | -0.2630          | 1.26              | 0.52                | 019.03      | 6              | 0.9912           | 2.58              | 0.40                |
| 003.10      | 38             | 0.0301           | 1.62              | 0.37                | 019.05      | 40             | 0.0803           | 1.14              | 0.48                |
| 003.11      | 16             | -0.4370          | 2.00              | 0.13                | 019.08      | 8              | 0.0000           | 0.94              | 0.40                |
| 003.12      | 5              | 0.0000           | 0.98              | 0.35                | 019.09      | 31             | 0.2450           | 1.76              | 0.49                |
| 003.13      | 4              | 0.0000           | 0.74              | 0.68                | 019.99      | 7              | -1.5619          | 3.32              | 0.50                |
| 003.14      | 15             | 0.0000           | 0.98              | 0.27                | 020.00      | 2              | 0.0000           | 0.35              | 0.83                |
| 003.99      | 11             | 0.0583           | 2.23              | 0.17                | 020.01      | 9              | -0.0587          | 0.93              | 0.50                |
| 004.00      | 31             | 0.0570           | 1.62              | 0.20                | 020.99      | 2              | 7.3539           | 10.40             | 2.93                |
| 004.01      | 2              | 0.8153           | 1.15              | 0.54                | 021.01      | 4              | 0.6211           | 1.54              | 0.09                |
| 004.03      | 4              | 0.0000           | 1.03              | 0.29                | 021.02      | 16             | -0.1217          | 1.03              | 0.77                |
| 004.06      | 33             | 2.0855           | 13.24             | 13.06               | 021.99      | 4              | 1.1343           | 2.44              | 0.68                |
| 004.07      | 43             | 0.0173           | 0.97              | 0.22                | 022.01      | 29             | 0.4628           | 1.71              | 0.41                |
| 004.11      | 15             | 0.0000           | 1.01              | 0.12                | 022.03      | 31             | 0.2162           | 1.29              | 0.60                |
| 004.99      | 7              | -0.4994          | 1.63              | 0.18                | 022.05      | 27             | 0.0000           | 0.98              | 0.26                |
| 005.00      | 134            | -0.0599          | 1.50              | 0.25                | 022.99      | 5              | -1.7328          | 3.98              | 0.17                |
| 005.11      | 14             | 0.8819           | 2.03              | 0.37                | 025.01      | 32             | -0.2468          | 1.80              | 0.17                |
| 005.99      | 12             | 0.0000           | 1.00              | 0.22                | 025.03      | 32             | -0.2223          | 1.60              | 0.43                |
| 008.02      | 17             | 0.2143           | 1.31              | 0.20                | 025.05      | 24             | 0.0864           | 1.16              | 0.47                |
| 008.08      | 21             | 0.0652           | 1.00              | 0.29                | 025.99      | 4              | -4.6408          | 9.32              | 0.31                |
| 008.99      | 9              | -0.1857          | 1.10              | 0.56                | 026.00      | 2              | 0.0000           | 1.21              | 0.14                |
| 009.07      | 17             | 0.3329           | 1.54              | 0.20                | 027.01      | 30             | -0.3033          | 1.47              | 0.34                |
| 009.09      | 18             | 0.1707           | 1.19              | 0.34                | 027.03      | 33             | 0.1210           | 1.76              | 0.48                |



## 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 |
|-------------|----------------|------------------|-------------------|---------------------|-------------|----------------|------------------|-------------------|---------------------|
| 027.05      | 27             | -0.4836          | 2.77              | 0.30                | 041.00      | 3              | 0.0000           | 0.49              | 0.82                |
| 027.99      | 2              | 0.0000           | 1.17              | 0.26                | 054.01      | 10             | 0.0000           | 1.02              | 0.10                |
| 028.01      | 36             | -0.4361          | 2.56              | 0.21                | 106.02      | 19             | 197.1409         | 857.84            | 71.77               |
| 028.03      | 33             | -0.3097          | 1.83              | 1.21                | 108.02      | 2              | 0.0000           | 1.22              | 0.05                |
| 028.05      | 26             | 0.1669           | 1.21              | 0.51                | 109.02      | 10             | 0.0000           | 1.02              | 0.09                |
| 028.99      | 5              | -2.3876          | 5.42              | 0.12                | 120.00      | 11             | 0.1147           | 1.17              | 0.65                |
| 031.01      | 64             | -0.0089          | 1.11              | 0.26                | 121.00      | 11             | 0.1453           | 1.03              | 0.61                |
| 031.02      | 6              | 0.0000           | 0.83              | 0.58                | 122.00      | 11             | 0.6397           | 2.01              | 0.79                |
| 031.03      | 8              | 0.0000           | 1.00              | 0.25                | 124.00      | 10             | 0.9687           | 2.64              | 0.38                |
| 031.05      | 68             | -0.0217          | 1.24              | 0.82                | 125.00      | 11             | 0.1121           | 1.26              | 0.84                |
| 031.06      | 3              | 0.0000           | 1.08              | 0.23                | 126.00      | 11             | 0.3623           | 1.70              | 1.15                |
| 031.99      | 11             | 0.7027           | 1.91              | 0.17                | 127.00      | 11             | 0.0000           | 0.93              | 0.41                |
| 032.01      | 24             | -0.4908          | 1.97              | 0.25                | 128.00      | 11             | 0.0351           | 0.93              | 0.58                |
| 032.02      | 8              | -1.1054          | 5.38              | 0.47                | 129.00      | 11             | 0.2070           | 1.25              | 0.82                |
| 032.05      | 60             | -0.0972          | 1.15              | 0.40                | 130.00      | 11             | 0.1427           | 0.99              | 0.70                |
| 032.99      | 2              | 0.0000           | 1.18              | 0.22                | 131.00      | 11             | 0.4699           | 1.72              | 0.63                |
| 033.00      | 22             | -0.3164          | 1.88              | 0.22                | 132.00      | 11             | 0.1466           | 1.42              | 1.77                |
| 033.01      | 38             | -1.1282          | 5.76              | 0.30                | 133.00      | 10             | 0.2540           | 1.21              | 0.89                |
| 033.03      | 8              | 2.3706           | 2.68              | 0.51                | 134.00      | 11             | 0.2101           | 1.24              | 0.39                |
| 033.99      | 9              | -1.9023          | 5.85              | 1.63                | 135.00      | 11             | -0.8802          | 3.56              | 1.91                |
| 034.01      | 2              | 0.0000           | 1.20              | 0.17                | 136.00      | 2              | 0.0000           | 1.08              | 0.41                |
| 034.04      | 8              | 0.0000           | 1.02              | 0.17                | 136.01      | 4              | 0.0000           | 1.02              | 0.30                |
| 034.05      | 5              | 1.0614           | 2.54              | 1.37                | 137.00      | 7              | 0.0000           | 0.98              | 0.31                |
| 034.99      | 2              | 0.0000           | 1.03              | 0.46                | 138.00      | 11             | 0.0704           | 0.94              | 0.60                |
| 035.00      | 30             | 4.8167           | 27.01             | 0.48                |             |                |                  |                   |                     |
| 035.01      | 4              | 0.0000           | 0.92              | 0.49                |             |                |                  |                   |                     |
| 035.03      | 56             | 0.0725           | 2.02              | 0.46                |             |                |                  |                   |                     |
| 035.05      | 11             | 0.3282           | 1.44              | 0.24                |             |                |                  |                   |                     |
| 035.99      | 3              | 6.7918           | 11.79             | 0.65                |             |                |                  |                   |                     |
| 036.00      | 2              | 0.0000           | 1.22              | 0.00                |             |                |                  |                   |                     |
| 036.03      | 24             | 0.0613           | 1.68              | 0.29                |             |                |                  |                   |                     |
| 036.04      | 3              | 0.0000           | 0.91              | 0.53                |             |                |                  |                   |                     |
| 037.01      | 36             | -0.2282          | 2.85              | 1.01                |             |                |                  |                   |                     |
| 037.03      | 33             | -0.2100          | 1.17              | 0.44                |             |                |                  |                   |                     |
| 037.05      | 27             | 0.1711           | 1.31              | 0.37                |             |                |                  |                   |                     |
| 037.99      | 5              | -2.5365          | 5.75              | 0.17                |             |                |                  |                   |                     |
| 038.00      | 11             | 0.3543           | 1.50              | 0.59                |             |                |                  |                   |                     |
| 038.99      | 3              | 0.6402           | 1.40              | 1.35                |             |                |                  |                   |                     |
| 039.02      | 5              | 0.8755           | 2.07              | 1.13                |             |                |                  |                   |                     |