

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

- Pass 1 Results for 216 Labs - - Pass 2 Results for 216 Labs -

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

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

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

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

Feed Check Sample No. - 200830 Chicken Starter, Medicated  
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- Pass 1 Results for 216 Labs - - Pass 2 Results for 216 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 035.XX PCT                 |              |                | 90                | 0.15319       | 0.01412      | 0.00538                     | 87                | 0.15299       | 0.01403      | 0.00473                     |
| Sulfur, (Gravimetric) .....             |              | 036.00         | 1                 | 0.24000       | 0.00000      | 0.00000                     | 1                 | 0.24000       | 0.00000      | 0.00000                     |
| Sulfur, ICP .....                       |              | 036.03         | 22                | 0.23753       | 0.02139      | 0.00598                     | 22                | 0.23753       | 0.02139      | 0.00598                     |
| Sulfur, LECO .....                      |              | 036.04         | 2                 | 0.24000       | 0.01826      | 0.01000                     | 2                 | 0.24000       | 0.01826      | 0.01000                     |
| Method Group 036.XX PCT                 |              |                | 25                | 0.23783       | 0.02055      | 0.00606                     | 25                | 0.23783       | 0.02055      | 0.00606                     |
| Zinc, AA .....                          | 968.08       | 037.01         | 30                | 99.2525       | 4.97639      | 2.82062                     | 29                | 99.1577       | 4.94795      | 2.57306                     |
| Zinc, ICP, Dry Ash .....                | 968.08       | 037.03         | 29                | 98.5937       | 6.54531      | 2.50876                     | 26                | 99.3823       | 5.83595      | 1.60708                     |
| Zinc, ICP, Wet Ash .....                | 968.08       | 037.05         | 25                | 103.686       | 9.28387      | 2.55760                     | 26                | 104.718       | 10.4848      | 2.49769                     |
| Zinc, Misc .....                        |              | 037.99         | 4                 | 99.0775       | 8.40946      | 7.06000                     | 4                 | 99.0775       | 8.40946      | 7.06000                     |
| Method Group 037.XX PPM                 |              |                | 88                | 100.287       | 7.34514      | 2.83583                     | 84                | 100.571       | 7.15244      | 2.48313                     |
| Molybdenum, ICP .....                   |              | 038.00         | 6                 | 1.45000       | 0.13191      | 0.03333                     | 5                 | 1.42500       | 0.12817      | 0.01800                     |
| Molybdenum, Misc .....                  |              | 038.99         | 1                 | 1.50000       | 0.00000      | 0.00000                     | 1                 | 1.50000       | 0.00000      | 0.00000                     |
| Method Group 038.XX PPM                 |              |                | 7                 | 1.45714       | 0.12269      | 0.02857                     | 6                 | 1.43750       | 0.11955      | 0.01500                     |
| Nickel, AA .....                        |              | 039.01         | 1                 | 1.70000       | 0.00000      | 0.00000                     | 1                 | 1.70000       | 0.00000      | 0.00000                     |
| Nickel, ICP .....                       |              | 039.02         | 3                 | 2.16792       | 0.40907      | 0.24317                     | 3                 | 2.16792       | 0.40907      | 0.24317                     |
| Method Group 039.XX PPM                 |              |                | 4                 | 2.05094       | 0.40798      | 0.18237                     | 4                 | 2.05094       | 0.40798      | 0.18237                     |
| Barium, ICP .....                       |              | 040.00         | 1                 | 5.38500       | 0.00707      | 0.01000                     | 1                 | 5.38500       | 0.00707      | 0.01000                     |
| Vanadium, ICP .....                     |              | 041.00         | 3                 | 1.34242       | 0.16875      | 0.10883                     | 3                 | 1.34242       | 0.16875      | 0.10883                     |
| Method Group 041.XX PPM                 |              |                | 3                 | 1.34242       | 0.16875      | 0.10883                     | 3                 | 1.34242       | 0.16875      | 0.10883                     |
| Amprolium, Color .....                  | 961.24       | 045.00         | 8                 | 0.01024       | 0.00076      | 0.00041                     | 7                 | 0.01017       | 0.00074      | 0.00026                     |
| Amprolium, HPLC .....                   |              | 045.02         | 7                 | 0.00953       | 0.00119      | 0.00022                     | 7                 | 0.00953       | 0.00119      | 0.00022                     |
| Amprolium, Misc .....                   |              | 045.99         | 1                 | 0.01305       | 0.00007      | 0.00010                     | 1                 | 0.01305       | 0.00007      | 0.00010                     |
| Method Group 045.XX PCT                 |              |                | 16                | 0.01011       | 0.00126      | 0.00031                     | 15                | 0.01006       | 0.00128      | 0.00023                     |
| Choline Chloride, Chem .....            |              | 101.01         | 1                 | 699.000       | 12.7279      | 18.0000                     | 1                 | 699.000       | 12.7279      | 18.0000                     |
| Choline Chloride, HPLC .....            |              | 101.02         | 1                 | 486.960       | 24.6639      | 34.8800                     | 1                 | 486.960       | 24.6639      | 34.8800                     |
| Method Group 101.XX MG/LB               |              |                | 2                 | 592.980       | 123.466      | 26.4400                     | 2                 | 592.980       | 123.466      | 26.4400                     |
| Niacin, Micro .....                     | 944.13       | 102.01         | 1                 | 31.8400       | 2.05061      | 2.90000                     | 1                 | 31.8400       | 2.05061      | 2.90000                     |
| Niacin, HPLC .....                      |              | 102.02         | 1                 | 0.02100       | 0.00000      | 0.00000                     | 1                 | 0.02100       | 0.00000      | 0.00000                     |
| Method Group 102.XX PCT                 |              |                | 2                 | 15.9305       | 18.4088      | 1.45000                     | 2                 | 15.9305       | 18.4088      | 1.45000                     |
| Pantothenic Acid, Microbiological ..... | 945.74       | 103.01         | 1                 | 9.59500       | 0.79903      | 1.13000                     | 1                 | 9.59500       | 0.79903      | 1.13000                     |
| Riboflavin, Fluorometric .....          | 970.65       | 104.00         | 2                 | 5.28000       | 1.09032      | 0.32000                     | 2                 | 5.28000       | 1.09032      | 0.32000                     |
| Riboflavin, HPLC .....                  |              | 104.03         | 1                 | 4.03650       | 0.19304      | 0.27300                     | 1                 | 4.03650       | 0.19304      | 0.27300                     |
| Method Group 104.XX MG/LB               |              |                | 3                 | 4.86550       | 1.06446      | 0.30433                     | 3                 | 4.86550       | 1.06446      | 0.30433                     |
| Thiamine, HPLC .....                    |              | 105.00         | 2                 | 1.72250       | 0.07772      | 0.10300                     | 2                 | 1.72250       | 0.07772      | 0.10300                     |
| Method Group 105.XX MG/LB               |              |                | 2                 | 1.72250       | 0.07772      | 0.10300                     | 2                 | 1.72250       | 0.07772      | 0.10300                     |
| Vitamin A, Color .....                  | 974.29       | 106.00         | 1                 | 4.20000       | 0.14142      | 0.20000                     | 1                 | 4.20000       | 0.14142      | 0.20000                     |
| Vitamin A, UV .....                     |              | 106.01         | 1                 | 4.46800       | 0.30971      | 0.43800                     | 1                 | 4.46800       | 0.30971      | 0.43800                     |
| Vitamin A, HPLC .....                   |              | 106.02         | 15                | 4.63966       | 1.37417      | 0.51416                     | 15                | 4.63966       | 1.37417      | 0.51416                     |
| Vitamin A, Misc .....                   |              | 106.99         | 1                 | 3.70000       | 0.14142      | 0.20000                     | 1                 | 3.70000       | 0.14142      | 0.20000                     |

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| 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 106.XX KU/LB                          |              |                | 18                | 4.55349       | 1.27439      | 0.47502                     | 18                | 4.55349       | 1.27439      | 0.47502                     |
| Vitamin B12, .....                                 | 952.20       | 107.00         | 1                 | 15.5800       | 3.43654      | 4.86000                     | 1                 | 15.5800       | 3.43654      | 4.86000                     |
| Vitamin B12, Misc .....                            |              | 107.99         | 1                 | 13.0400       | 0.35355      | 0.50000                     | 1                 | 13.0400       | 0.35355      | 0.50000                     |
| Method Group 107.XX MCG/L                          |              |                | 2                 | 14.3100       | 2.47564      | 2.68000                     | 2                 | 14.3100       | 2.47564      | 2.68000                     |
| Vitamin D3, HPLC .....                             | 982.29       | 108.01         | 1                 | 1.07500       | 0.20506      | 0.29000                     | 1                 | 1.07500       | 0.20506      | 0.29000                     |
| Vitamin D3, HPLC .....                             |              | 108.02         | 2                 | 0.70150       | 0.33814      | 0.07100                     | 2                 | 0.70150       | 0.33814      | 0.07100                     |
| Method Group 108.XX KU/LB                          |              |                | 3                 | 0.82600       | 0.33795      | 0.14400                     | 3                 | 0.82600       | 0.33795      | 0.14400                     |
| Vitamin E, HPLC .....                              |              | 109.02         | 9                 | 40.4578       | 4.43037      | 2.61788                     | 8                 | 40.6650       | 4.20139      | 1.54511                     |
| Vitamin E, Misc .....                              |              | 109.99         | 1                 | 43.5000       | 0.70711      | 1.00000                     | 1                 | 43.5000       | 0.70711      | 1.00000                     |
| Method Group 109.XX MG/KG                          |              |                | 10                | 40.7620       | 4.29711      | 2.45609                     | 9                 | 40.9800       | 4.05523      | 1.48454                     |
| Pyridoxine, Misc .....                             |              | 112.99         | 1                 | 3.40600       | 0.06364      | 0.09000                     | 1                 | 3.40600       | 0.06364      | 0.09000                     |
| Folic Acid, .....                                  | 944.12       | 113.01         | 1                 | 0.76400       | 0.00849      | 0.01200                     | 1                 | 0.76400       | 0.00849      | 0.01200                     |
| Biotin, Microbiological .....                      |              | 114.01         | 1                 | 0.20150       | 0.04596      | 0.06500                     | 1                 | 0.20150       | 0.04596      | 0.06500                     |
| Alanine, Post-col Ninhydrin Der .....              | 994.12       | 120.00         | 8                 | 0.97794       | 0.04003      | 0.00988                     | 8                 | 0.97794       | 0.04003      | 0.00988                     |
| Alanine, Misc .....                                |              | 120.99         | 1                 | 0.94000       | 0.01697      | 0.02400                     | 1                 | 0.94000       | 0.01697      | 0.02400                     |
| Method Group 120.XX PCT                            |              |                | 9                 | 0.97372       | 0.03977      | 0.01144                     | 9                 | 0.97372       | 0.03977      | 0.01144                     |
| Arginine, Post-col Ninhydrin Der .....             | 994.12       | 121.00         | 9                 | 1.08296       | 0.06218      | 0.02660                     | 9                 | 1.08296       | 0.06218      | 0.02660                     |
| Arginine, Misc .....                               |              | 121.99         | 1                 | 1.06350       | 0.01909      | 0.02700                     | 1                 | 1.06350       | 0.01909      | 0.02700                     |
| Method Group 121.XX PCT                            |              |                | 10                | 1.08101       | 0.05928      | 0.02664                     | 10                | 1.08101       | 0.05928      | 0.02664                     |
| Aspartic, Post-col Ninhydrin Der .....             | 994.12       | 122.00         | 9                 | 1.56747       | 0.07039      | 0.01329                     | 9                 | 1.56747       | 0.07039      | 0.01329                     |
| Aspartic, Misc .....                               |              | 122.99         | 1                 | 1.56650       | 0.00071      | 0.00100                     | 1                 | 1.56650       | 0.00071      | 0.00100                     |
| Method Group 122.XX PCT                            |              |                | 10                | 1.56737       | 0.06659      | 0.01206                     | 10                | 1.56737       | 0.06659      | 0.01206                     |
| Glutamic Acid, Misc .....                          |              | 123.99         | 1                 | 3.04550       | 0.06152      | 0.08700                     | 1                 | 3.04550       | 0.06152      | 0.08700                     |
| Cysteine/Cystine, PAO Post-col Ninhydrin Der ..... | 994.12       | 124.00         | 7                 | 0.33064       | 0.01879      | 0.00671                     | 7                 | 0.33064       | 0.01879      | 0.00671                     |
| Cysteine/Cystine, PAO Post-col OPA Der .....       |              | 124.02         | 1                 | 0.28000       | 0.01414      | 0.02000                     | 1                 | 0.28000       | 0.01414      | 0.02000                     |
| Cysteine/Cystine, PAO Pre-col AQC Der .....        |              | 124.05         | 1                 | 0.35500       | 0.00707      | 0.01000                     | 1                 | 0.35500       | 0.00707      | 0.01000                     |
| Cysteine/Cystine, Misc .....                       |              | 124.99         | 1                 | 0.28250       | 0.00071      | 0.00100                     | 1                 | 0.28250       | 0.00071      | 0.00100                     |
| Method Group 124.XX PCT                            |              |                | 10                | 0.32320       | 0.02780      | 0.00780                     | 10                | 0.32320       | 0.02780      | 0.00780                     |
| Glutamic, Post-col Ninhydrin Der .....             | 994.12       | 125.00         | 9                 | 3.23061       | 0.17145      | 0.05252                     | 9                 | 3.23061       | 0.17145      | 0.05252                     |
| Method Group 125.XX PCT                            |              |                | 9                 | 3.23061       | 0.17145      | 0.05252                     | 9                 | 3.23061       | 0.17145      | 0.05252                     |
| Glycine, Post-col Ninhydrin Der .....              | 994.12       | 126.00         | 7                 | 0.75879       | 0.02796      | 0.01529                     | 7                 | 0.75879       | 0.02796      | 0.01529                     |
| Glycine, Misc .....                                |              | 126.99         | 1                 | 0.72250       | 0.00919      | 0.01300                     | 1                 | 0.72250       | 0.00919      | 0.01300                     |
| Method Group 126.XX PCT                            |              |                | 8                 | 0.75425       | 0.02893      | 0.01500                     | 8                 | 0.75425       | 0.02893      | 0.01500                     |
| Histidine, Post-col Ninhydrin Der .....            | 994.12       | 127.00         | 9                 | 0.47386       | 0.03476      | 0.01391                     | 9                 | 0.47386       | 0.03476      | 0.01391                     |
| Histidine, Misc .....                              |              | 127.99         | 1                 | 0.45250       | 0.00495      | 0.00700                     | 1                 | 0.45250       | 0.00495      | 0.00700                     |
| Method Group 127.XX PCT                            |              |                | 10                | 0.47172       | 0.03355      | 0.01322                     | 10                | 0.47172       | 0.03355      | 0.01322                     |
| Isoleucine, Post-col Ninhydrin Der .....           | 994.12       | 128.00         | 9                 | 0.66834       | 0.06848      | 0.03256                     | 8                 | 0.66814       | 0.06953      | 0.02163                     |
| Isoleucine, Misc .....                             |              | 128.99         | 1                 | 0.66200       | 0.00283      | 0.00400                     | 1                 | 0.66200       | 0.00283      | 0.00400                     |
| Method Group 128.XX PCT                            |              |                | 10                | 0.66771       | 0.06481      | 0.02970                     | 9                 | 0.66746       | 0.06535      | 0.01967                     |

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

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

- Pass 1 Results for 216 Labs - - Pass 2 Results for 216 Labs -

| <u>Method</u> | <u>AOAC</u><br><u>18th</u> | <u>Method</u><br><u>Code</u> | <u>No.</u><br><u>of</u><br><u>Labs</u> | <u>Grand</u><br><u>Avg.</u> | <u>Std.</u><br><u>Dev.</u> | <u>Average</u><br><u>Range</u><br><u>of Dups</u> | <u>No.</u><br><u>of</u><br><u>Labs</u> | <u>Grand</u><br><u>Avg.</u> | <u>Std.</u><br><u>Dev.</u> | <u>Average</u><br><u>Range</u><br><u>of Dups</u> |
|---------------|----------------------------|------------------------------|--|-----------------------------|----------------------------|--|--|-----------------------------|----------------------------|--|
|---------------|----------------------------|------------------------------|--|-----------------------------|----------------------------|--|--|-----------------------------|----------------------------|--|

Laboratory Averages & Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

Laboratory Averages & Accuracy Indexes

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

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

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

Laboratory Averages & Accuracy Indexes

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

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

Laboratory Averages & Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

Laboratory Averages & Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

## Laboratory Averages &amp; Accuracy Indexes

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

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

Laboratory Averages & Accuracy Indexes

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

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

Laboratory Averages & Accuracy Indexes

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

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

Method Evaluation - Z Values Based on 3 Reports

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