COMP CHEMISTRY

| Name | Line No. | Specimen 1 Range & Type | Specimen 1 Mean | Specimen 1 SD | Specimen 2 Range & Type | Specimen 2 Mean | Specimen 2 SD | Specimen 3 Range & Type | Specimen 3 Mean | Specimen 3 SD | Specimen 4 Range & Type | Specimen 4 Mean | Specimen 4 SD | Specimen 5 Range & Type | Specimen 5 Mean | Specimen 5 SD | No. of Labs |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Alpha-fetoprotein** | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 1 | 1.1 - 2.2 | S 1.65 | 0.18 | 0.4 - 1.7 | S 1.08 | 0.22 | 0.3 - 1.2 | S 0.77 | 0.15 | 0.8 - 2.2 | S 1.5 | 0.22 | 1.2 - 2.5 | S 1.85 | 0.23 | 4 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Roche Elecsys | 2 | 0.6 - 2.6 | S 1.6 | 0.34 | 0.2 - 1.9 | S 1.08 | 0.28 | 0 - 1.6 | S 0.8 | 0.25 | 0.4 - 2.5 | S 1.47 | 0.36 | 0.6 - 3.0 | S 1.8 | 0.39 | 9 |
| Siemens Immulite | 3 | 0.2 - 1.2 | S 0.7 | 0.16 | 0.1 - 0.8 | S 0.43 | 0.11 | 0 - 0.5 | S 0.25 | 0.09 | 0.3 - 1.0 | S 0.63 | 0.11 | 0.4 - 1.3 | S 0.88 | 0.15 | 4 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| luminometric | 4 | 0.7 - 2.5 | S 1.59 | 0.3 | 0.3 - 1.8 | S 1.05 | 0.23 | 0.1 - 1.4 | S 0.74 | 0.22 | 0.6 - 2.3 | S 1.45 | 0.3 | 0.9 - 2.8 | S 1.83 | 0.32 | 15 |
| All Siemens Methods | 5 | 0 - 4.1 | S 1.44 | 0.88 | 0 - 2.9 | S 0.97 | 0.66 | 0 - 1.8 | S 0.57 | 0.4 | 0 - 3.7 | S 1.3 | 0.79 | 0 - 4.3 | S 1.61 | 0.88 | 7 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 6 | 0 - 3.3 | S 1.48 | 0.61 | 0 - 2.3 | S 0.99 | 0.43 | 0 - 1.6 | S 0.68 | 0.31 | 0 - 3.0 | S 1.36 | 0.53 | 0 - 3.5 | S 1.7 | 0.6 | 25 |
| **Amylase** | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |
| Abbott Aeroset/Architect & Abbott Architect c, ci, i | 1 | 115 - 213 | P 164.2 | 3.4 | 66 - 122 | P 93.6 | 2.1 | 29 - 54 | P 41.6 | 1.3 | 103 - 192 | P 147.7 | 3.2 | 140 - 261 | P 200.4 | 4.6 | 18 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 108 - 201 | P 154.8 | 6.0 | 62 - 116 | P 89.0 | 4.4 | 28 - 53 | P 40.6 | 1.9 | 98 - 183 | P 140.6 | 6.0 | 132 - 244 | P 188.0 | 7.2 | 5 |
| Beckman AMY7 & Beck Coult Unicel DXC | 3 | 110 - 204 | P 156.8 | 3.7 | 64 - 118 | P 90.8 | 2.5 | 29 - 53 | P 40.9 | 1.2 | 100 - 186 | P 142.7 | 3.0 | 135 - 251 | P 192.7 | 3.8 | 15 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 4 | 81 - 151 | P 116.3 | 4.2 | 47 - 87 | P 66.6 | 2.5 | 20 - 38 | P 29.0 | 2.0 | 72 - 135 | P 103.5 | 5.4 | 97 - 181 | P 139.0 | 7.5 | 24 |
| Beckman Olympus & Beck Olympus AU 2700 | 5 | 87 - 161 | P 123.8 | 4.1 | 50 - 93 | P 71.8 | 2.3 | 22 - 41 | P 31.8 | 1.3 | 79 - 147 | P 112.8 | 4.3 | 104 - 193 | P 148.8 | 4.0 | 4 |
| Beckman Olympus & Beckman AU 480 | 6 | 84 - 156 | P 120.2 | 5.6 | 48 - 89 | P 68.8 | 3.7 | 21 - 40 | P 30.5 | 1.7 | 76 - 141 | P 108.5 | 5.2 | 101 - 188 | P 144.9 | 7.6 | 11 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 7 | 61 - 113 | P 86.8 | 6.6 | 32 - 59 | P 45.6 | 7.6 | 21 - 39 | P 30.0 | 0.0 | 58 - 107 | P 82.3 | 8.8 | 81 - 150 | P 115.5 | 9.9 | 8 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 8 | 61 - 113 | P 87.1 | 5.9 | 31 - 57 | P 43.9 | 3.6 | 22 - 41 | P 31.3 | 3.3 | 56 - 105 | P 80.4 | 3.8 | 77 - 142 | P 109.3 | 7.0 | 8 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 9 | 61 - 113 | P 87.1 | 5.5 | 31 - 58 | P 44.8 | 5.0 | 22 - 40 | P 30.8 | 2.9 | 54 - 100 | P 77.1 | 3.9 | 76 - 141 | P 108.3 | 5.9 | 14 |
| Roche Cobas & Roche Cobas 6000 | 10 | 103 - 192 | P 147.8 | 1.6 | 59 - 109 | P 83.8 | 1.1 | 26 - 49 | P 37.3 | 0.5 | 93 - 172 | P 132.5 | 1.0 | 127 - 235 | P 180.8 | 1.8 | 6 |
| Roche Cobas & Roche Cobas Integra | 11 | 100 - 186 | P 143.4 | 1.7 | 58 - 107 | P 82.4 | 0.7 | 26 - 49 | P 37.5 | 0.5 | 91 - 169 | P 129.9 | 1.4 | 123 - 228 | P 175.3 | 2.4 | 9 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 12 | 104 - 192 | P 147.9 | 4.3 | 59 - 109 | P 84.1 | 2.5 | 26 - 49 | P 37.5 | 1.2 | 93 - 173 | P 132.9 | 4.1 | 126 - 235 | P 180.6 | 5.3 | 16 |
| Sekisui & Beck Olym AU 400/600/5400 | 13 | 104 - 194 | P 149.2 | 11.6 | 60 - 112 | P 86.0 | 7.6 | 27 - 50 | P 38.6 | 3.7 | 94 - 174 | P 134.2 | 10.8 | 125 - 232 | P 178.2 | 14.6 | 5 |
| Siemens Advia & Siemens Advia | 14 | 101 - 188 | P 144.6 | 5.1 | 58 - 107 | P 82.4 | 3.7 | 26 - 48 | P 36.6 | 2.1 | 91 - 170 | P 130.6 | 4.3 | 125 - 231 | P 178.0 | 6.5 | 5 |
| Siemens Dimension & Siemens Dim RxL, RxL Max | 15 | 111 - 207 | P 159.2 | 1.7 | 64 - 119 | P 91.3 | 0.9 | 28 - 51 | P 39.5 | 1.4 | 101 - 188 | P 144.3 | 1.5 | 135 - 251 | P 193.0 | 2.6 | 6 |
| Siemens Dimension & Siemens Dimension EXL | 16 | 113 - 209 | P 160.9 | 3.0 | 65 - 120 | P 92.2 | 1.7 | 28 - 53 | P 40.4 | 0.9 | 102 - 189 | P 145.1 | 2.4 | 137 - 254 | P 195.1 | 3.0 | 53 |
| Siemens Dimension & Siemens Dimension Xpand | 17 | 114 - 212 | P 162.8 | 3.0 | 66 - 122 | P 93.7 | 2.1 | 28 - 53 | P 40.6 | 1.7 | 103 - 191 | P 146.9 | 3.0 | 139 - 257 | P 197.9 | 3.1 | 22 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott Aeroset/Architect | 18 | 115 - 213 | P 164.2 | 3.4 | 66 - 122 | P 93.6 | 2.1 | 29 - 54 | P 41.6 | 1.3 | 103 - 192 | P 147.7 | 3.2 | 140 - 261 | P 200.4 | 4.6 | 18 |
| Alfa Wassermann | 19 | 109 - 202 | P 155.2 | 5.6 | 63 - 117 | P 89.7 | 4.3 | 29 - 53 | P 40.8 | 1.8 | 99 - 183 | P 141.0 | 5.6 | 132 - 245 | P 188.8 | 6.9 | 6 |
| Beckman AMY | 20 | 98 - 182 | P 140.2 | 25.3 | 56 - 104 | P 80.0 | 15.0 | 26 - 48 | P 36.6 | 7.5 | 88 - 164 | P 126.2 | 22.4 | 119 - 221 | P 170.0 | 30.6 | 5 |
| Beckman AMY7 | 21 | 110 - 204 | P 156.8 | 3.7 | 64 - 118 | P 90.8 | 2.5 | 29 - 53 | P 40.9 | 1.2 | 100 - 186 | P 142.7 | 3.0 | 135 - 251 | P 192.7 | 3.8 | 16 |
| Beckman Olympus | 22 | 83 - 154 | P 118.3 | 5.3 | 48 - 88 | P 67.9 | 3.4 | 21 - 39 | P 29.8 | 2.1 | 74 - 138 | P 105.9 | 6.2 | 99 - 184 | P 141.8 | 8.1 | 39 |
| Carolina | 23 | 148 - 276 | P 212.0 | 0.0 | 83 - 153 | P 118.0 | 0.0 | 37 - 69 | P 53.0 | 0.0 | 132 - 244 | P 188.0 | 0.0 | 181 - 337 | P 259.0 | 0.0 | 7 |
| Ortho Vitros | 24 | 61 - 113 | P 86.8 | 5.9 | 31 - 58 | P 44.6 | 5.5 | 21 - 40 | P 30.7 | 2.6 | 55 - 103 | P 79.0 | 6.2 | 77 - 144 | P 110.4 | 8.0 | 31 |
| Roche Cobas | 25 | 103 - 191 | P 146.6 | 3.8 | 58 - 109 | P 83.5 | 2.0 | 26 - 49 | P 37.5 | 0.9 | 92 - 171 | P 131.9 | 3.3 | 125 - 233 | P 179.2 | 4.7 | 32 |
| Sekisui | 26 | 102 - 190 | P 146.0 | 9.8 | 61 - 113 | P 86.7 | 6.6 | 28 - 51 | P 39.3 | 4.9 | 93 - 173 | P 133.4 | 9.3 | 125 - 232 | P 178.1 | 11.9 | 10 |
| Siemens Advia | 27 | 101 - 188 | P 144.6 | 5.1 | 58 - 107 | P 82.4 | 3.7 | 26 - 48 | P 36.6 | 2.1 | 91 - 170 | P 130.6 | 4.3 | 125 - 231 | P 178.0 | 6.5 | 5 |
| Siemens Dimension | 28 | 113 - 210 | P 161.3 | 3.1 | 65 - 120 | P 92.5 | 1.9 | 28 - 53 | P 40.4 | 1.2 | 102 - 189 | P 145.5 | 2.6 | 137 - 254 | P 195.7 | 3.3 | 82 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 29 | 98 - 182 | P 139.9 | 11.9 | 58 - 107 | P 82.3 | 8.6 | 27 - 51 | P 38.9 | 4.7 | 90 - 167 | P 128.2 | 10.8 | 118 - 219 | P 168.4 | 18.0 | 20 |
| High moderate recovery meth | 30 | 113 - 209 | P 161.0 | 9.0 | 65 - 120 | P 92.2 | 5.5 | 28 - 53 | P 40.5 | 2.6 | 102 - 189 | P 145.1 | 8.5 | 137 - 254 | P 195.6 | 11.6 | 117 |
| All Beckman | 31 | 91 - 170 | P 130.6 | 19.2 | 53 - 98 | P 75.1 | 11.4 | 23 - 43 | P 33.2 | 5.7 | 82 - 153 | P 117.4 | 18.2 | 110 - 205 | P 157.7 | 25.1 | 60 |
| Very low recovery methods | 32 | 61 - 113 | P 86.8 | 5.9 | 31 - 58 | P 44.6 | 5.5 | 21 - 40 | P 30.7 | 2.6 | 55 - 103 | P 79.0 | 6.2 | 77 - 144 | P 110.4 | 8.0 | 31 |
| All other methods | 33 | 103 - 191 | P 146.6 | 3.8 | 58 - 109 | P 83.5 | 2.0 | 26 - 49 | P 37.5 | 0.9 | 92 - 171 | P 131.9 | 3.3 | 125 - 233 | P 179.2 | 4.7 | 32 |
| Low moderate recovery meth | 34 | 101 - 188 | P 144.6 | 5.1 | 58 - 107 | P 82.4 | 3.7 | 26 - 48 | P 36.6 | 2.1 | 91 - 170 | P 130.6 | 4.3 | 125 - 231 | P 178.0 | 6.5 | 5 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Total Population** | | | | | | | | | | | | | | | | |
| Whole Population | 35 | 99 - 184 | P 141.4 | 26.4 | 56 - 105 | P 80.5 | 16.6 | 26 - 48 | P 37.1 | 5.1 | 89 - 166 | P 127.7 | 23.7 | 121 - 224 | P 172.2 | 31.4 | 268 |
| **Bilirubin, Direct Comprehensive** | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |
| Abbott acid diazo & Abbott Architect c, ci, i | 1 | 1.1 - 1.9 | C 1.48 | 0.08 | 0.4 - 1.2 | C 0.84 | 0.05 | 0 - 0.7 | C 0.28 | 0.04 | 1.0 - 1.8 | C 1.37 | 0.08 | 1.4 - 2.2 | C 1.79 | 0.12 | 9 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 1.1 - 1.9 | C 1.48 | 0.16 | 0.5 - 1.3 | C 0.9 | 0.07 | 0 - 0.7 | C 0.33 | 0.04 | 1.0 - 1.8 | C 1.4 | 0.19 | 1.3 - 2.1 | C 1.73 | 0.19 | 4 |
| Beckman Coulter & Beck Coult Unicel DXC | 3 | 0.6 - 1.4 | C 1.0 | 0.09 | 0.2 - 1.0 | C 0.58 | 0.06 | 0 - 0.6 | C 0.19 | 0.05 | 0.5 - 1.3 | C 0.94 | 0.08 | 0.8 - 1.6 | C 1.19 | 0.09 | 10 |
| Beckman Coulter & Beckman AU 480 | 4 | 0.9 - 1.7 | C 1.3 | 0.07 | 0.3 - 1.1 | C 0.72 | 0.04 | 0 - 0.6 | C 0.23 | 0.04 | 0.8 - 1.6 | C 1.18 | 0.11 | 1.1 - 1.9 | C 1.53 | 0.08 | 4 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 5 | 0.9 - 1.7 | C 1.25 | 0.09 | 0.3 - 1.1 | C 0.69 | 0.05 | 0 - 0.6 | C 0.21 | 0.03 | 0.7 - 1.5 | C 1.14 | 0.08 | 1.1 - 1.9 | C 1.51 | 0.11 | 11 |
| Beckman Olympus & Beckman AU 480 | 6 | 0.9 - 1.7 | C 1.32 | 0.07 | 0.4 - 1.2 | C 0.76 | 0.05 | 0 - 0.6 | C 0.22 | 0.04 | 0.8 - 1.6 | C 1.22 | 0.07 | 1.2 - 2.0 | C 1.58 | 0.07 | 5 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 7 | 1.0 - 1.9 | C 1.45 | 0.11 | 0.4 - 1.2 | C 0.75 | 0.05 | 0 - 0.7 | C 0.32 | 0.04 | 0.9 - 1.7 | C 1.25 | 0.15 | 1.4 - 2.2 | C 1.78 | 0.13 | 4 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 8 | 0.8 - 1.6 | C 1.22 | 0.6 | 0.1 - 0.9 | C 0.48 | 0.4 | 0 - 0.6 | C 0.18 | 0.18 | 0.6 - 1.4 | C 0.98 | 0.48 | 1.1 - 1.9 | C 1.52 | 0.69 | 5 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 9 | 0.1 - 0.9 | C 0.48 | 0.13 | 0 - 0.5 | C 0.13 | 0.13 | 0 - 0.4 | C 0.0 | 0.0 | 0 - 0.9 | C 0.45 | 0.15 | 0.3 - 1.1 | C 0.7 | 0.19 | 4 |
| Roche acid diazo & Roche Cobas 6000 | 10 | 0.3 - 1.1 | C 0.66 | 0.24 | 0.1 - 0.9 | C 0.46 | 0.05 | 0 - 0.6 | C 0.18 | 0.04 | 0.4 - 1.2 | C 0.76 | 0.05 | 0.6 - 1.4 | C 0.96 | 0.1 | 5 |
| Roche acid diazo & Roche Cobas Integra | 11 | 0.5 - 1.3 | C 0.94 | 0.05 | 0.1 - 0.9 | C 0.52 | 0.04 | 0 - 0.6 | C 0.18 | 0.04 | 0.5 - 1.3 | C 0.88 | 0.04 | 0.8 - 1.6 | C 1.22 | 0.07 | 5 |
| Roche acid diazo & Roche e/c, 1XX, X000, Elec series | 12 | 0.4 - 1.2 | C 0.78 | 0.07 | 0 - 0.8 | C 0.44 | 0.05 | 0 - 0.6 | C 0.2 | 0.0 | 0.3 - 1.1 | C 0.72 | 0.04 | 0.5 - 1.3 | C 0.9 | 0.06 | 5 |
| Siemens Dimension DBI & Siemens Dim RxL, RxL Max | 13 | 0.6 - 1.4 | C 0.96 | 0.05 | 0.1 - 0.9 | C 0.52 | 0.04 | 0 - 0.6 | C 0.16 | 0.05 | 0.4 - 1.2 | C 0.84 | 0.05 | 0.7 - 1.5 | C 1.08 | 0.04 | 5 |
| Siemens Dimension DBI & Siemens Dimension EXL | 14 | 0.5 - 1.3 | C 0.89 | 0.05 | 0.1 - 0.9 | C 0.49 | 0.04 | 0 - 0.6 | C 0.15 | 0.05 | 0.4 - 1.2 | C 0.82 | 0.06 | 0.7 - 1.5 | C 1.08 | 0.07 | 31 |
| Siemens Dimension DBI & Siemens Dimension Xpand | 15 | 0.5 - 1.3 | C 0.93 | 0.11 | 0.1 - 0.9 | C 0.5 | 0.04 | 0 - 0.6 | C 0.16 | 0.05 | 0.4 - 1.2 | C 0.82 | 0.06 | 0.7 - 1.5 | C 1.1 | 0.08 | 10 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott acid diazo | 16 | 1.1 - 1.9 | C 1.48 | 0.08 | 0.4 - 1.2 | C 0.84 | 0.05 | 0 - 0.7 | C 0.28 | 0.04 | 1.0 - 1.8 | C 1.37 | 0.08 | 1.4 - 2.2 | C 1.79 | 0.12 | 9 |
| Alfa Wassermann | 17 | 1.1 - 1.9 | C 1.48 | 0.16 | 0.5 - 1.3 | C 0.9 | 0.07 | 0 - 0.7 | C 0.33 | 0.04 | 1.0 - 1.8 | C 1.4 | 0.19 | 1.3 - 2.1 | C 1.73 | 0.19 | 4 |
| Beckman Coulter | 18 | 0.7 - 1.5 | C 1.07 | 0.17 | 0.2 - 1.0 | C 0.61 | 0.1 | 0 - 0.6 | C 0.19 | 0.06 | 0.6 - 1.4 | C 1.0 | 0.15 | 0.9 - 1.7 | C 1.27 | 0.18 | 18 |
| Beckman Olympus | 19 | 0.9 - 1.7 | C 1.27 | 0.09 | 0.3 - 1.1 | C 0.72 | 0.06 | 0 - 0.6 | C 0.21 | 0.03 | 0.8 - 1.6 | C 1.17 | 0.08 | 1.1 - 1.9 | C 1.54 | 0.11 | 17 |
| Carolina | 20 | 0.5 - 1.3 | C 0.9 | 0.21 | 0.1 - 0.9 | C 0.5 | 0.14 | 0 - 0.6 | C 0.15 | 0.08 | 0.4 - 1.2 | C 0.78 | 0.2 | 0.6 - 1.4 | C 1.0 | 0.24 | 6 |
| Ortho Vitros | 21 | 0.6 - 1.4 | C 1.01 | 0.56 | 0 - 0.8 | C 0.42 | 0.36 | 0 - 0.6 | C 0.16 | 0.17 | 0.5 - 1.3 | C 0.86 | 0.45 | 0.9 - 1.7 | C 1.3 | 0.63 | 14 |
| Roche acid diazo | 22 | 0.4 - 1.2 | C 0.79 | 0.19 | 0.1 - 0.9 | C 0.47 | 0.06 | 0 - 0.6 | C 0.19 | 0.03 | 0.4 - 1.2 | C 0.79 | 0.08 | 0.6 - 1.4 | C 1.03 | 0.16 | 15 |
| Siemens Dimension DBI | 23 | 0.5 - 1.3 | C 0.91 | 0.08 | 0.1 - 0.9 | C 0.5 | 0.04 | 0 - 0.6 | C 0.15 | 0.05 | 0.4 - 1.2 | C 0.82 | 0.06 | 0.7 - 1.5 | C 1.09 | 0.07 | 46 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Acid diazo methods | 24 | 0.6 - 1.4 | C 1.03 | 0.33 | 0.2 - 1.0 | C 0.56 | 0.2 | 0 - 0.6 | C 0.19 | 0.09 | 0.5 - 1.3 | C 0.94 | 0.28 | 0.8 - 1.6 | C 1.24 | 0.37 | 118 |
| Diazonium ion methods | 25 | 0.9 - 1.7 | C 1.26 | 0.16 | 0.3 - 1.1 | C 0.71 | 0.08 | 0 - 0.6 | C 0.21 | 0.04 | 0.7 - 1.5 | C 1.15 | 0.13 | 1.1 - 1.9 | C 1.51 | 0.19 | 23 |
| TOTAL POPULATION | 26 | 0.7 - 1.5 | C 1.12 | 0.29 | 0.2 - 1.0 | C 0.64 | 0.17 | 0 - 0.6 | C 0.22 | 0.06 | 0.6 - 1.4 | C 1.02 | 0.29 | 0.9 - 1.7 | C 1.31 | 0.36 | 39 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 27 | 0.7 - 1.5 | C 1.08 | 0.31 | 0.2 - 1.0 | C 0.6 | 0.19 | 0 - 0.6 | C 0.2 | 0.12 | 0.6 - 1.4 | C 0.98 | 0.28 | 0.9 - 1.7 | C 1.29 | 0.36 | 185 |
| **Cortisol** | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |
| Abbott Architect & Abbott Architect c, ci, i | 1 | 18 - 31 | P 24.5 | 0.5 | 11 - 19 | P 15.0 | 0.7 | 6 - 10 | P 8.0 | 0.0 | 17 - 28 | P 22.0 | 0.7 | 22 - 36 | P 29.0 | 1.0 | 4 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 21 - 35 | P 27.8 | 2.0 | 13 - 21 | P 17.2 | 1.1 | 7 - 11 | P 8.8 | 0.7 | 19 - 31 | P 24.7 | 1.1 | 24 - 39 | P 31.5 | 1.5 | 6 |
| Beckman Coulter Access & Beckman Coulter Dxl | 3 | 20 - 34 | P 27.3 | 1.3 | 13 - 22 | P 17.6 | 1.3 | 7 - 11 | P 9.1 | 0.6 | 19 - 31 | P 25.1 | 1.8 | 24 - 40 | P 32.3 | 2.5 | 7 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 4 | 26 - 43 | P 34.0 | 2.1 | 15 - 26 | P 20.4 | 1.8 | 7 - 11 | P 9.1 | 0.6 | 23 - 39 | P 31.0 | 1.6 | 30 - 51 | P 40.4 | 2.6 | 8 |
| Siemens Immulite & Siemens Immulite 1000 | 5 | 22 - 37 | P 29.3 | 1.9 | 12 - 20 | P 16.3 | 1.7 | 7 - 12 | P 9.3 | 0.5 | 21 - 35 | P 27.7 | 0.5 | 24 - 40 | P 32.3 | 0.5 | 4 |
| Siemens Immulite & Siemens Immulite 2000 | 6 | 21 - 35 | P 28.3 | 1.6 | 14 - 23 | P 18.4 | 1.2 | 7 - 12 | P 9.5 | 0.5 | 20 - 33 | P 26.0 | 2.2 | 25 - 42 | P 33.4 | 1.3 | 9 |
| Tosoh AIA & Tosoh AIA | 7 | 23 - 38 | P 30.8 | 1.1 | 15 - 24 | P 19.5 | 1.1 | 7 - 12 | P 9.8 | 1.1 | 22 - 36 | P 28.8 | 1.5 | 28 - 46 | P 36.8 | 0.8 | 4 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott Architect | 8 | 18 - 31 | P 24.5 | 0.5 | 11 - 19 | P 15.0 | 0.7 | 6 - 10 | P 8.0 | 0.0 | 17 - 28 | P 22.0 | 0.7 | 22 - 36 | P 29.0 | 1.0 | 4 |
| Beckman Coulter Access | 9 | 21 - 34 | P 27.5 | 1.6 | 13 - 22 | P 17.4 | 1.2 | 7 - 11 | P 9.0 | 0.7 | 19 - 31 | P 24.9 | 1.5 | 24 - 40 | P 31.9 | 2.1 | 13 |
| Roche Elecsys | 10 | 26 - 43 | P 34.7 | 2.3 | 16 - 26 | P 20.7 | 1.9 | 7 - 12 | P 9.3 | 0.7 | 24 - 39 | P 31.5 | 1.9 | 31 - 51 | P 40.8 | 3.0 | 14 |
| Siemens Immulite | 11 | 21 - 36 | P 28.5 | 1.7 | 13 - 22 | P 17.7 | 1.6 | 7 - 12 | P 9.5 | 0.5 | 20 - 33 | P 26.2 | 2.1 | 25 - 41 | P 33.1 | 1.2 | 14 |
| Tosoh AIA | 12 | 23 - 38 | P 30.0 | 1.4 | 14 - 24 | P 19.2 | 1.1 | 7 - 12 | P 9.7 | 0.9 | 21 - 35 | P 27.7 | 2.0 | 26 - 44 | P 35.3 | 2.1 | 6 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Immuno-not FPIA | 13 | 21 - 35 | P 27.9 | 2.8 | 13 - 22 | P 17.6 | 2.2 | 7 - 11 | P 9.1 | 1.1 | 19 - 32 | P 25.5 | 3.1 | 25 - 41 | P 32.8 | 3.4 | 11 |
| luminometric | 14 | 23 - 38 | P 30.4 | 3.7 | 14 - 23 | P 18.7 | 2.2 | 7 - 12 | P 9.3 | 0.7 | 21 - 35 | P 27.6 | 3.3 | 27 - 44 | P 35.4 | 4.5 | 43 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 15 | 22 - 37 | P 29.7 | 3.7 | 14 - 23 | P 18.4 | 2.3 | 7 - 12 | P 9.2 | 0.9 | 20 - 34 | P 27.2 | 3.3 | 26 - 43 | P 34.6 | 4.5 | 57 |
| **Creatine Kinase, Total** | | | | | | | | | | | | | | | | | |
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abbott & Abbott Architect c, ci, i | 1 | 244 - 453 | P 348.6 | 4.5 | 132 - 245 | P 188.5 | 3.1 | 47 - 87 | P 67.1 | 1.6 | 220 - 408 | P 313.8 | 5.1 | 302 - 561 | P 431.9 | 7.2 | 19 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 213 - 395 | P 304.0 | 9.4 | 120 - 223 | P 171.7 | 5.1 | 45 - 84 | P 64.7 | 3.2 | 195 - 363 | P 278.9 | 12.0 | 261 - 484 | P 372.3 | 11.6 | 7 |
| Beckman Coulter & Beck Coult Unicel DXC | 3 | 235 - 436 | P 335.6 | 12.3 | 130 - 242 | P 185.8 | 7.3 | 48 - 90 | P 69.0 | 2.7 | 213 - 396 | P 304.5 | 10.9 | 293 - 544 | P 418.8 | 9.7 | 21 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 4 | 208 - 385 | P 296.5 | 19.9 | 111 - 207 | P 159.2 | 10.7 | 39 - 72 | P 55.7 | 3.1 | 186 - 346 | P 265.9 | 18.2 | 257 - 477 | P 366.6 | 26.1 | 27 |
| Beckman Olympus & Beck Olympus AU 2700 | 5 | 214 - 398 | P 306.0 | 12.2 | 115 - 214 | P 164.8 | 6.6 | 41 - 76 | P 58.8 | 3.7 | 193 - 359 | P 275.8 | 12.7 | 260 - 482 | P 370.8 | 15.5 | 4 |
| Beckman Olympus & Beckman AU 480 | 6 | 213 - 396 | P 304.9 | 11.8 | 114 - 212 | P 163.0 | 6.9 | 41 - 76 | P 58.1 | 2.5 | 192 - 356 | P 273.9 | 11.3 | 263 - 488 | P 375.1 | 12.7 | 9 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 7 | 193 - 359 | P 276.4 | 12.5 | 118 - 218 | P 168.0 | 8.4 | 44 - 81 | P 62.4 | 4.0 | 180 - 334 | P 257.1 | 12.8 | 224 - 415 | P 319.5 | 19.8 | 8 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 8 | 199 - 369 | P 283.7 | 22.0 | 122 - 227 | P 174.9 | 9.9 | 48 - 88 | P 68.0 | 2.9 | 187 - 347 | P 267.0 | 8.7 | 230 - 428 | P 329.1 | 13.0 | 7 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 9 | 193 - 359 | P 275.8 | 22.0 | 120 - 223 | P 171.9 | 12.1 | 45 - 84 | P 64.3 | 5.2 | 185 - 343 | P 264.0 | 17.5 | 231 - 429 | P 330.0 | 19.3 | 14 |
| Roche Cobas & Roche Cobas 6000 | 10 | 242 - 449 | P 345.1 | 9.3 | 130 - 242 | P 186.4 | 4.8 | 47 - 87 | P 67.0 | 2.0 | 220 - 408 | P 313.6 | 7.9 | 298 - 554 | P 426.1 | 10.4 | 7 |
| Roche Cobas & Roche Cobas Integra | 11 | 236 - 439 | P 337.5 | 15.5 | 129 - 240 | P 184.6 | 8.4 | 48 - 88 | P 67.9 | 3.4 | 213 - 396 | P 304.4 | 15.2 | 289 - 536 | P 412.6 | 18.4 | 9 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 12 | 243 - 451 | P 347.3 | 10.7 | 130 - 242 | P 186.4 | 5.7 | 47 - 87 | P 67.1 | 2.1 | 220 - 408 | P 313.8 | 9.0 | 300 - 557 | P 428.2 | 13.8 | 16 |
| SDI Biomed & SDI CA-240, 480 | 13 | 204 - 380 | P 292.0 | 5.1 | 107 - 199 | P 153.3 | 3.4 | 40 - 75 | P 57.8 | 1.6 | 182 - 338 | P 260.2 | 5.8 | 248 - 460 | P 354.0 | 5.3 | 7 |
| Siemens Advia & Siemens Advia | 14 | 220 - 408 | P 313.7 | 9.3 | 118 - 219 | P 168.2 | 5.1 | 42 - 77 | P 59.5 | 2.0 | 199 - 369 | P 283.8 | 9.0 | 272 - 505 | P 388.7 | 10.7 | 6 |
| Siemens Dimension & Siemens Dimension EXL | 15 | 237 - 440 | P 338.1 | 5.7 | 128 - 237 | P 182.6 | 3.1 | 45 - 83 | P 64.2 | 2.3 | 212 - 395 | P 303.5 | 5.2 | 293 - 545 | P 419.1 | 8.6 | 19 |
| Siemens Dimension & Siemens Dimension Xpand | 16 | 234 - 435 | P 334.6 | 7.5 | 126 - 234 | P 180.2 | 5.6 | 45 - 83 | P 63.6 | 2.8 | 211 - 392 | P 301.6 | 8.6 | 289 - 538 | P 413.5 | 11.5 | 11 |
| Siemens Dimension IFCC & Siemens Dimension EXL | 17 | 234 - 434 | P 334.2 | 7.4 | 127 - 235 | P 180.8 | 4.3 | 45 - 83 | P 64.1 | 1.8 | 212 - 394 | P 302.8 | 7.2 | 291 - 540 | P 415.7 | 10.3 | 33 |
| Siemens Dimension IFCC & Siemens Dimension Xpand | 18 | 235 - 436 | P 335.3 | 7.3 | 127 - 235 | P 181.1 | 3.8 | 44 - 82 | P 63.3 | 2.7 | 211 - 392 | P 301.9 | 7.1 | 289 - 536 | P 412.5 | 10.9 | 15 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott | 19 | 244 - 453 | P 348.6 | 4.5 | 132 - 245 | P 188.5 | 3.1 | 47 - 87 | P 67.1 | 1.6 | 220 - 408 | P 313.8 | 5.1 | 302 - 561 | P 431.9 | 7.2 | 19 |
| Alfa Wassermann | 20 | 213 - 395 | P 304.0 | 9.4 | 120 - 223 | P 171.7 | 5.1 | 45 - 84 | P 64.7 | 3.2 | 195 - 363 | P 278.9 | 12.0 | 261 - 484 | P 372.3 | 11.6 | 7 |
| Beckman Coulter | 21 | 230 - 428 | P 329.2 | 17.7 | 127 - 235 | P 180.8 | 11.5 | 47 - 87 | P 66.9 | 4.7 | 208 - 387 | P 297.7 | 16.4 | 285 - 530 | P 407.8 | 22.6 | 28 |
| Beckman Olympus | 22 | 209 - 389 | P 299.2 | 18.0 | 112 - 209 | P 160.6 | 9.7 | 40 - 73 | P 56.5 | 3.3 | 188 - 349 | P 268.5 | 16.7 | 258 - 479 | P 368.8 | 22.8 | 41 |
| Carolina | 23 | 192 - 357 | P 274.3 | 8.7 | 105 - 195 | P 150.3 | 7.8 | 39 - 72 | P 55.7 | 5.2 | 170 - 316 | P 243.0 | 13.5 | 236 - 438 | P 336.7 | 14.6 | 5 |
| Ortho Vitros | 24 | 194 - 360 | P 277.3 | 20.1 | 120 - 223 | P 171.2 | 11.0 | 45 - 84 | P 64.6 | 4.8 | 184 - 341 | P 262.3 | 15.4 | 228 - 424 | P 326.0 | 19.4 | 31 |
| Pointe Scientific | 25 | 240 - 446 | P 343.4 | 18.3 | 128 - 238 | P 183.2 | 8.5 | 46 - 86 | P 66.2 | 4.0 | 215 - 400 | P 307.6 | 16.7 | 294 - 545 | P 419.6 | 22.9 | 5 |
| Roche Cobas | 26 | 241 - 448 | P 344.6 | 12.5 | 130 - 242 | P 186.2 | 6.4 | 47 - 87 | P 67.0 | 2.8 | 218 - 405 | P 311.7 | 11.5 | 297 - 551 | P 424.2 | 15.9 | 34 |
| SDI Biomed | 27 | 208 - 387 | P 297.7 | 14.8 | 111 - 205 | P 158.0 | 11.9 | 41 - 77 | P 59.1 | 3.5 | 187 - 347 | P 266.9 | 17.2 | 254 - 472 | P 363.1 | 22.9 | 8 |
| Sekisui | 28 | 209 - 387 | P 298.0 | 17.0 | 113 - 211 | P 162.0 | 8.5 | 41 - 75 | P 58.0 | 3.6 | 186 - 345 | P 265.3 | 16.7 | 255 - 473 | P 363.7 | 25.2 | 4 |
| Siemens Advia | 29 | 220 - 408 | P 313.7 | 9.3 | 118 - 219 | P 168.2 | 5.1 | 42 - 77 | P 59.5 | 2.0 | 199 - 369 | P 283.8 | 9.0 | 272 - 505 | P 388.7 | 10.7 | 6 |
| Siemens Dimension | 30 | 236 - 437 | P 336.5 | 6.5 | 127 - 236 | P 181.4 | 4.3 | 45 - 83 | P 63.8 | 2.4 | 212 - 393 | P 302.5 | 6.5 | 292 - 541 | P 416.5 | 9.8 | 33 |
| Siemens Dimension IFCC | 31 | 234 - 435 | P 334.7 | 7.4 | 127 - 235 | P 181.1 | 4.3 | 45 - 83 | P 63.8 | 2.3 | 212 - 394 | P 302.8 | 7.7 | 290 - 539 | P 414.8 | 10.7 | 51 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| IFCC standardized methods | 32 | 235 - 437 | P 336.3 | 14.1 | 128 - 237 | P 182.3 | 7.7 | 46 - 85 | P 65.1 | 3.5 | 213 - 395 | P 303.7 | 13.2 | 291 - 541 | P 416.0 | 18.4 | 174 |
| High moderate recovery meth | 33 | 203 - 378 | P 290.5 | 27.3 | 119 - 222 | P 170.6 | 12.0 | 45 - 83 | P 64.0 | 4.8 | 189 - 351 | P 269.8 | 20.7 | 243 - 451 | P 347.0 | 36.1 | 51 |
| Moderate recovery methods | 34 | 208 - 386 | P 296.7 | 18.5 | 112 - 209 | P 160.5 | 10.1 | 40 - 73 | P 56.5 | 3.5 | 186 - 346 | P 266.4 | 17.4 | 255 - 474 | P 364.6 | 24.8 | 48 |
| Low moderate recovery meths | 35 | 220 - 408 | P 313.7 | 9.3 | 118 - 219 | P 168.2 | 5.1 | 42 - 77 | P 59.5 | 2.0 | 199 - 369 | P 283.8 | 9.0 | 272 - 505 | P 388.7 | 10.7 | 6 |
| Very high recovery methods | 36 | 233 - 433 | P 333.3 | 15.8 | 122 - 226 | P 173.8 | 10.8 | 44 - 82 | P 63.3 | 1.5 | 209 - 389 | P 299.0 | 8.3 | 294 - 546 | P 420.0 | 15.4 | 4 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 37 | 224 - 417 | P 320.5 | 27.4 | 123 - 229 | P 175.8 | 12.7 | 45 - 83 | P 63.6 | 5.4 | 203 - 378 | P 290.5 | 23.2 | 276 - 512 | P 393.7 | 37.9 | 287 |

## Gamma-Glutamyltransferase (GGT)

| | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | |
| Abbott & Abbott Architect c, ci, i | 1 | 129 - 193 | P 161.2 | 6.0 | 75 - 112 | P 93.4 | 5.4 | 29 - 49 | C 39.1 | 1.4 | 116 - 174 | P 145.1 | 4.7 | 157 - 235 | P 195.7 | 7.2 | 10 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 91 - 136 | P 113.6 | 3.8 | 55 - 83 | P 69.0 | 3.1 | 23 - 43 | C 33.0 | 2.1 | 84 - 126 | P 105.4 | 4.1 | 111 - 167 | P 138.9 | 3.3 | 7 |
| Beckman Coulter & Beck Coult Unicel DXC | 3 | 128 - 192 | P 160.3 | 4.3 | 74 - 111 | P 92.6 | 2.6 | 31 - 51 | C 41.0 | 1.9 | 116 - 174 | P 144.9 | 4.2 | 155 - 233 | P 194.0 | 5.6 | 13 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 4 | 100 - 149 | P 124.4 | 4.8 | 57 - 86 | P 71.3 | 2.5 | 21 - 41 | C 31.3 | 1.3 | 90 - 135 | P 112.2 | 4.5 | 120 - 180 | P 150.4 | 5.8 | 21 |
| Beckman Olympus & Beck Olympus AU 2700 | 5 | 103 - 154 | P 128.3 | 2.9 | 60 - 91 | P 75.5 | 1.7 | 23 - 43 | C 33.3 | 0.8 | 93 - 140 | P 116.5 | 4.0 | 124 - 185 | P 154.5 | 4.1 | 4 |
| Beckman Olympus & Beckman AU 480 | 6 | 101 - 151 | P 125.8 | 2.8 | 58 - 87 | P 72.2 | 1.3 | 22 - 42 | C 32.0 | 0.8 | 91 - 136 | P 113.5 | 2.1 | 122 - 183 | P 152.2 | 3.0 | 10 |
| Carolina & Beck Olym AU 400/600/5400 | 7 | 100 - 150 | P 124.8 | 8.9 | 58 - 86 | P 72.0 | 5.5 | 22 - 42 | C 32.3 | 2.4 | 90 - 135 | P 112.8 | 7.9 | 121 - 182 | P 151.3 | 11.3 | 4 |
| Carolina & Beckman Synchron CX3/7/9/L | 8 | 85 - 128 | P 106.4 | 8.0 | 49 - 74 | P 61.4 | 4.0 | 18 - 38 | C 27.6 | 2.6 | 77 - 115 | P 96.2 | 6.6 | 103 - 155 | P 128.8 | 9.3 | 5 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 9 | 173 - 259 | P 216.0 | 4.6 | 109 - 163 | P 135.8 | 3.3 | 50 - 75 | P 62.8 | 1.2 | 159 - 238 | P 198.5 | 3.7 | 201 - 302 | P 251.7 | 4.9 | 7 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 10 | 170 - 256 | P 213.0 | 3.6 | 107 - 161 | P 133.9 | 3.3 | 49 - 73 | P 60.9 | 1.7 | 159 - 239 | P 199.0 | 6.2 | 203 - 305 | P 254.3 | 8.3 | 8 |
| Roche Cobas & Roche Cobas 6000 | 11 | 111 - 167 | P 139.0 | 3.5 | 63 - 94 | P 78.4 | 1.2 | 25 - 45 | C 34.8 | 1.2 | 100 - 150 | P 125.0 | 3.5 | 134 - 201 | P 167.4 | 3.9 | 5 |
| Roche Cobas & Roche Cobas Integra | 12 | 114 - 172 | P 143.0 | 1.6 | 65 - 98 | P 81.8 | 0.8 | 26 - 46 | C 35.5 | 1.5 | 103 - 154 | P 128.5 | 1.5 | 138 - 207 | P 172.5 | 2.3 | 4 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 13 | 111 - 167 | P 139.2 | 5.3 | 64 - 96 | P 79.9 | 3.1 | 26 - 46 | C 35.6 | 2.2 | 101 - 151 | P 125.9 | 5.2 | 136 - 204 | P 169.8 | 8.0 | 13 |
| SDI Biomed & SDI CA-240, 480 | 14 | 112 - 168 | P 140.0 | 19.4 | 64 - 97 | P 80.6 | 12.4 | 32 - 52 | C 42.0 | 10.0 | 102 - 153 | P 127.4 | 15.0 | 129 - 194 | P 161.8 | 21.2 | 5 |
| Siemens Advia & Siemens Advia | 15 | 118 - 177 | P 147.8 | 7.3 | 67 - 100 | P 83.5 | 3.8 | 27 - 47 | C 36.8 | 1.5 | 107 - 161 | P 133.8 | 5.8 | 145 - 217 | P 180.8 | 8.7 | 4 |
| Siemens Dimension & Siemens Dimension EXL | 16 | 148 - 222 | P 185.0 | 5.3 | 88 - 132 | P 109.7 | 3.7 | 42 - 63 | P 52.2 | 2.4 | 135 - 202 | P 168.3 | 5.4 | 179 - 269 | P 224.1 | 7.3 | 23 |
| Siemens Dimension & Siemens Dimension Xpand | 17 | 152 - 228 | P 190.4 | 4.8 | 90 - 135 | P 112.8 | 3.5 | 43 - 65 | P 54.1 | 2.8 | 138 - 208 | P 173.0 | 4.2 | 183 - 275 | P 229.3 | 6.8 | 8 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abbott | 18 | 129 - 193 | P | 161.2 | 6.0 | 75 - 112 | P | 93.4 | 5.4 | 29 - 49 | C | 39.1 | 1.4 | 116 - 174 | P | 145.1 | 4.7 | 157 - 235 | P | 195.7 | 7.2 | 10 |
| Alfa Wassermann | 19 | 91 - 136 | P | 113.6 | 3.8 | 55 - 83 | P | 69.0 | 3.1 | 23 - 43 | C | 33.0 | 2.1 | 84 - 126 | P | 105.4 | 4.1 | 111 - 167 | P | 138.9 | 3.3 | 7 |
| Beckman Coulter | 20 | 123 - 184 | P | 153.4 | 15.2 | 70 - 105 | P | 87.7 | 9.3 | 29 - 49 | C | 38.8 | 4.4 | 110 - 165 | P | 137.3 | 14.5 | 147 - 220 | P | 183.7 | 19.6 | 17 |
| Beckman Olympus | 21 | 100 - 150 | P | 125.0 | 4.4 | 58 - 86 | P | 71.9 | 2.5 | 22 - 42 | C | 31.7 | 1.3 | 90 - 135 | P | 112.9 | 4.1 | 121 - 181 | P | 151.2 | 5.2 | 36 |
| Carolina | 22 | 90 - 136 | P | 113.0 | 11.8 | 52 - 78 | P | 65.4 | 6.7 | 20 - 40 | C | 29.5 | 3.2 | 82 - 123 | P | 102.1 | 10.4 | 109 - 164 | P | 136.5 | 14.6 | 12 |
| Ortho Vitros | 23 | 171 - 256 | P | 213.7 | 5.7 | 108 - 161 | P | 134.4 | 4.0 | 49 - 74 | P | 61.4 | 1.9 | 159 - 238 | P | 198.2 | 6.5 | 202 - 302 | P | 252.0 | 8.3 | 18 |
| Pointe Scientific | 24 | 100 - 150 | P | 125.3 | 5.7 | 57 - 86 | P | 71.8 | 2.9 | 22 - 42 | C | 31.5 | 1.1 | 90 - 135 | P | 112.8 | 4.6 | 121 - 182 | P | 151.3 | 7.2 | 4 |
| Roche Cobas | 25 | 112 - 168 | P | 139.8 | 4.7 | 64 - 96 | P | 79.9 | 2.7 | 25 - 45 | C | 35.4 | 1.9 | 101 - 151 | P | 126.2 | 4.5 | 136 - 204 | P | 169.8 | 6.7 | 22 |
| SDI Biomed | 26 | 112 - 168 | P | 140.0 | 19.4 | 64 - 97 | P | 80.6 | 12.4 | 32 - 52 | C | 42.0 | 10.0 | 102 - 153 | P | 127.4 | 15.0 | 129 - 194 | P | 161.8 | 21.2 | 5 |
| Sekisui | 27 | 107 - 160 | P | 133.6 | 18.7 | 63 - 94 | P | 78.4 | 12.5 | 23 - 43 | C | 33.1 | 3.5 | 96 - 144 | P | 120.0 | 15.4 | 129 - 194 | P | 161.6 | 20.4 | 7 |
| Siemens Advia | 28 | 118 - 177 | P | 147.8 | 7.3 | 67 - 100 | P | 83.5 | 3.8 | 27 - 47 | C | 36.8 | 1.5 | 107 - 161 | P | 133.8 | 5.8 | 145 - 217 | P | 180.8 | 8.7 | 4 |
| Siemens Dimension | 29 | 148 - 223 | P | 185.5 | 6.1 | 88 - 132 | P | 110.1 | 4.0 | 42 - 63 | P | 52.4 | 2.7 | 135 - 203 | P | 168.8 | 5.8 | 180 - 269 | P | 224.4 | 8.0 | 35 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 30 | 104 - 156 | P | 129.9 | 13.1 | 60 - 90 | P | 74.7 | 7.7 | 23 - 43 | C | 33.3 | 4.3 | 94 - 141 | P | 117.3 | 11.5 | 125 - 188 | P | 156.8 | 15.5 | 87 |
| High recovery methods | 31 | 125 - 187 | P | 156.2 | 12.6 | 72 - 107 | P | 89.4 | 8.3 | 29 - 49 | C | 38.7 | 3.7 | 112 - 168 | P | 140.1 | 11.9 | 150 - 225 | P | 187.2 | 17.5 | 30 |
| Low moderate recovery meth | 32 | 96 - 144 | P | 119.8 | 9.1 | 56 - 84 | P | 69.6 | 6.9 | 23 - 43 | C | 33.1 | 3.0 | 86 - 128 | P | 106.9 | 11.6 | 116 - 175 | P | 145.5 | 10.3 | 14 |
| High moderate recovery meth | 33 | 119 - 179 | P | 148.8 | 6.9 | 68 - 102 | P | 84.8 | 4.3 | 27 - 47 | C | 37.0 | 1.4 | 108 - 162 | P | 135.4 | 6.2 | 146 - 219 | P | 182.2 | 8.3 | 5 |
| Very high recovery methods | 34 | 156 - 233 | P | 194.4 | 14.4 | 94 - 142 | P | 118.0 | 12.1 | 44 - 66 | P | 55.3 | 4.9 | 143 - 214 | P | 178.4 | 15.1 | 187 - 280 | P | 233.4 | 15.3 | 53 |
| **Total Population** | | | | | | | | | | | | | | | | | | | | | | |
| Whole Population | 35 | 121 - 181 | P | 150.9 | 33.2 | 71 - 107 | P | 88.9 | 20.9 | 30 - 50 | C | 40.3 | 10.4 | 110 - 165 | P | 137.5 | 29.7 | 146 - 218 | P | 181.9 | 38.2 | 190 |

## Human Chorionic Gonadotropin (hCG)

| | | | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | | | | | | |
| Abbott Architect & Abbott Architect c, ci, i | 1 | 1286 - 1605 | S | 1445.5 | 53.1 | 679 - 822 | S | 750.5 | 23.8 | 216 - 280 | S | 248.3 | 10.7 | 1129 - 1443 | S | 1286.0 | 52.3 | 1577 - 2022 | S | 1799.2 | 74.1 | 10 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 908 - 1559 | S | 1233.1 | 108.5 | 790 - 977 | S | 883.4 | 31.1 | 305 - 366 | S | 335.7 | 10.2 | 1029 - 1505 | S | 1266.8 | 79.2 | 1203 - 1746 | S | 1474.4 | 90.4 | 31 |
| Beckman Coulter Access & Beckman Coulter Dxl | 3 | 783 - 1725 | S | 1254.0 | 157.0 | 728 - 1074 | S | 901.1 | 57.6 | 274 - 395 | S | 334.1 | 20.2 | 742 - 1796 | S | 1269.1 | 175.7 | 998 - 1919 | S | 1458.3 | 153.4 | 7 |
| Ortho Vitros ECi & Ortho Vitros 3600, 5600 | 4 | 2203 - 3051 | S | 2627.0 | 141.3 | 1311 - 1622 | S | 1466.5 | 51.9 | 505 - 639 | S | 572.0 | 22.3 | 2041 - 2599 | S | 2320.0 | 92.9 | 2698 - 3415 | S | 3056.8 | 119.5 | 4 |
| Ortho Vitros ECi & Ortho Vitros ECi | 5 | 2266 - 2689 | S | 2477.3 | 70.5 | 1230 - 1633 | S | 1431.7 | 67.2 | 480 - 595 | S | 537.4 | 19.2 | 2050 - 2501 | S | 2275.9 | 75.2 | 2700 - 3071 | S | 2885.1 | 61.8 | 7 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 6 | 1965 - 2557 | S | 2261.1 | 98.7 | 373 - 2347 | S | 1360.0 | 329.1 | 423 - 517 | S | 470.3 | 15.7 | 1816 - 2268 | S | 2041.8 | 75.3 | 2456 - 3033 | S | 2744.4 | 96.1 | 8 |
| Roche Elecsys & Roche e411/e601/E170/E2010 | 7 | 2001 - 2591 | S | 2295.7 | 98.3 | 1099 - 1440 | S | 1269.6 | 56.9 | 421 - 551 | S | 485.9 | 21.7 | 1755 - 2363 | S | 2058.7 | 101.3 | 2360 - 3212 | S | 2785.9 | 142.0 | 17 |
| Roche HCG+b & Roche e/c, 1XX, X000, Elec series | 8 | 1809 - 2625 | S | 2217.0 | 136.1 | 1043 - 1380 | S | 1211.5 | 56.1 | 383 - 533 | S | 458.3 | 25.0 | 1673 - 2262 | S | 1967.5 | 98.3 | 2283 - 3219 | S | 2751.0 | 156.0 | 8 |
| Roche HCG+b & Roche e411/e601/E170/E2010 | 9 | 1495 - 3255 | S | 2375.0 | 293.2 | 796 - 1816 | S | 1306.1 | 169.9 | 313 - 685 | S | 498.9 | 62.1 | 1295 - 2948 | S | 2121.5 | 275.5 | 1703 - 4096 | S | 2899.5 | 398.9 | 8 |
| Siemens Advia & Siemens Centaur/Centaur CP | 10 | 745 - 1099 | S | 921.6 | 59.0 | 553 - 688 | S | 620.5 | 22.5 | 233 - 307 | S | 270.0 | 12.4 | 763 - 972 | S | 867.3 | 34.8 | 25 - 1960 | S | 992.5 | 322.6 | 11 |
| Siemens Dimension & Siemens Dimension EXL | 11 | 1243 - 2451 | S | 1846.7 | 201.3 | 745 - 1314 | S | 1029.4 | 94.7 | 355 - 452 | S | 403.4 | 16.3 | 552 - 2619 | S | 1585.3 | 344.6 | 1516 - 2919 | S | 2217.5 | 233.7 | 26 |
| Siemens Dimension & Siemens Dimension Xpand | 12 | 1627 - 2069 | S | 1848.0 | 73.6 | 136 - 2285 | S | 1210.5 | 358.2 | 342 - 481 | S | 411.8 | 23.1 | 1491 - 1905 | S | 1698.0 | 69.1 | 919 - 3966 | S | 2442.3 | 507.8 | 7 |
| Siemens Dimension LOCI & Siemens Dimension EXL | 13 | 799 - 2698 | S | 1748.9 | 316.5 | 810 - 1181 | S | 995.6 | 61.8 | 334 - 462 | S | 397.8 | 21.3 | 1086 - 2193 | S | 1639.3 | 184.6 | 1392 - 3249 | S | 2320.5 | 309.6 | 8 |
| Siemens Immulite & Siemens Immulite 1000 | 14 | 1854 - 4086 | S | 2970.1 | 372.1 | 1096 - 2299 | S | 1697.4 | 200.6 | 431 - 943 | S | 686.7 | 85.4 | 1939 - 3507 | S | 2723.0 | 261.3 | 2111 - 5216 | S | 3663.1 | 517.5 | 34 |
| Siemens Immulite 2000 & Siemens Immulite 2000 | 15 | 2204 - 3359 | S | 2781.4 | 192.5 | 1211 - 2123 | S | 1666.9 | 151.9 | 552 - 841 | S | 696.7 | 48.2 | 1991 - 2968 | S | 2479.7 | 162.7 | 2422 - 3815 | S | 3118.4 | 232.2 | 7 |
| Tosoh Total b-hCG & Tosoh AIA ST | 16 | 1794 - 3795 | S | 2794.7 | 333.4 | 1403 - 1744 | S | 1573.3 | 56.9 | 497 - 732 | S | 614.7 | 39.2 | 1939 - 3117 | S | 2528.0 | 196.5 | 2320 - 4511 | S | 3415.4 | 365.3 | 17 |
| Tosoh beta-hCG & Tosoh AIA | 17 | 1988 - 3887 | S | 2937.3 | 316.5 | 1146 - 1999 | S | 1572.5 | 142.1 | 462 - 743 | S | 602.7 | 46.9 | 1866 - 3425 | S | 2645.3 | 259.9 | 2586 - 4613 | S | 3599.2 | 337.9 | 6 |
| Tosoh beta-hCG & Tosoh AIA ST | 18 | 1858 - 3679 | S | 2768.3 | 303.6 | 1008 - 2006 | S | 1507.0 | 166.2 | 324 - 838 | S | 581.0 | 85.7 | 1896 - 3103 | S | 2499.4 | 201.1 | 2331 - 4246 | S | 3288.6 | 319.0 | 8 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 19 | 944 - 2784 | S | 1863.8 | 306.7 | 853 - 1542 | S | 1197.6 | 114.9 | 396 - 510 | S | 452.9 | 18.9 | 1121 - 2390 | S | 1755.8 | 211.5 | 547 - 3851 | S | 2198.7 | 550.6 | 12 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | | | | | | |
| Abbott Architect | 20 | 1286 - 1605 | S | 1445.5 | 53.1 | 679 - 822 | S | 750.5 | 23.8 | 216 - 280 | S | 248.3 | 10.7 | 1129 - 1443 | S | 1286.0 | 52.3 | 1577 - 2022 | S | 1799.2 | 74.1 | 10 |
| Beckman Coulter Access | 21 | 887 - 1601 | S | 1244.1 | 119.1 | 765 - 1012 | S | 888.9 | 41.2 | 295 - 377 | S | 336.0 | 13.8 | 945 - 1580 | S | 1262.2 | 105.8 | 1165 - 1771 | S | 1467.8 | 101.0 | 42 |
| Ortho Vitros ECi | 22 | 2157 - 2907 | S | 2531.7 | 125.0 | 1252 - 1637 | S | 1444.4 | 64.3 | 471 - 629 | S | 550.0 | 26.3 | 2038 - 2546 | S | 2291.9 | 84.8 | 2587 - 3308 | S | 2947.5 | 120.1 | 11 |
| Roche Elecsys | 23 | 2010 - 2563 | S | 2286.2 | 92.2 | 746 - 1832 | S | 1289.1 | 180.9 | 419 - 542 | S | 480.2 | 20.5 | 1780 - 2318 | S | 2048.7 | 89.7 | 2405 - 3140 | S | 2772.4 | 122.5 | 30 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Roche HCG Stat | 24 | 2018 - 2748 | S | 2382.8 | 121.8 | 1163 - 1490 | S | 1326.3 | 54.5 | 419 - 593 | S | 505.7 | 29.0 | 1706 - 2606 | S | 2155.8 | 150.1 | 2335 - 3474 | S | 2904.5 | 189.9 | 6 |
| Roche HCG+b | 25 | 1586 - 2979 | S | 2282.1 | 232.2 | 853 - 1643 | S | 1247.9 | 131.6 | 328 - 624 | S | 475.8 | 49.4 | 1402 - 2666 | S | 2034.1 | 210.6 | 1894 - 3710 | S | 2802.1 | 302.6 | 18 |
| Siemens Advia | 26 | 745 - 1099 | S | 921.6 | 59.0 | 553 - 688 | S | 620.5 | 22.5 | 233 - 307 | S | 270.0 | 12.4 | 763 - 972 | S | 867.3 | 34.8 | 25 - 1960 | S | 992.5 | 322.6 | 11 |
| Siemens Dimension | 27 | 1312 - 2392 | S | 1852.2 | 180.0 | 505 - 1617 | S | 1061.1 | 185.4 | 353 - 458 | S | 405.3 | 17.6 | 690 - 2527 | S | 1608.4 | 306.1 | 1251 - 3229 | S | 2240.3 | 329.7 | 35 |
| Siemens Dimension LOCI | 28 | 823 - 2762 | S | 1792.8 | 323.2 | 807 - 1207 | S | 1007.1 | 66.7 | 336 - 458 | S | 396.8 | 20.3 | 1115 - 2197 | S | 1656.1 | 180.4 | 1444 - 3246 | S | 2345.4 | 300.3 | 9 |
| Siemens Immulite | 29 | 1836 - 4062 | S | 2949.2 | 370.9 | 1092 - 2285 | S | 1688.9 | 198.9 | 433 - 936 | S | 684.5 | 83.9 | 1897 - 3517 | S | 2707.2 | 270.0 | 2063 - 5202 | S | 3632.3 | 523.1 | 36 |
| Siemens Immulite 2000 | 30 | 2245 - 3333 | S | 2789.0 | 181.2 | 1244 - 2108 | S | 1675.8 | 144.0 | 562 - 833 | S | 697.8 | 45.2 | 2002 - 2934 | S | 2467.9 | 155.4 | 2462 - 3767 | S | 3114.6 | 217.5 | 8 |
| Tosoh Total b-hCG | 31 | 1849 - 3732 | S | 2790.1 | 313.8 | 1405 - 1734 | S | 1569.4 | 55.0 | 500 - 725 | S | 612.4 | 37.5 | 1971 - 3083 | S | 2527.2 | 185.3 | 2307 - 4476 | S | 3391.7 | 361.6 | 19 |
| Tosoh beta-hCG | 32 | 1512 - 4019 | S | 2765.7 | 417.8 | 867 - 2127 | S | 1497.0 | 210.0 | 227 - 906 | S | 566.5 | 113.1 | 1424 - 3555 | S | 2489.9 | 355.2 | 2136 - 4593 | S | 3364.6 | 409.5 | 15 |
| bioMerieux Vidas | 33 | 944 - 2784 | S | 1863.8 | 306.7 | 853 - 1542 | S | 1197.6 | 114.9 | 396 - 510 | S | 452.9 | 18.9 | 1121 - 2390 | S | 1755.8 | 211.5 | 547 - 3851 | S | 2198.7 | 550.6 | 12 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 34 | 411 - 3588 | S | 1999.8 | 529.5 | 274 - 1995 | S | 1134.4 | 286.9 | 137 - 725 | S | 431.1 | 98.1 | 400 - 3206 | S | 1803.2 | 467.6 | 461 - 4426 | S | 2443.6 | 660.9 | 147 |
| High recovery methods | 35 | 1170 - 4139 | S | 2654.6 | 494.8 | 729 - 2241 | S | 1484.9 | 252.0 | 235 - 918 | S | 576.4 | 113.9 | 1194 - 3619 | S | 2406.1 | 404.1 | 1502 - 4972 | S | 3236.8 | 578.3 | 21 |
| All other methods | 36 | 0 - 3151 | S | 1521.8 | 543.1 | 311 - 1701 | S | 1006.4 | 231.7 | 114 - 649 | S | 381.2 | 89.1 | 182 - 2778 | S | 1480.0 | 432.6 | 0 - 3621 | S | 1780.8 | 613.5 | 53 |
| Very high recovery methods | 37 | 1873 - 3965 | S | 2918.7 | 348.7 | 1117 - 2256 | S | 1686.4 | 189.9 | 452 - 922 | S | 687.0 | 78.3 | 1855 - 3470 | S | 2662.7 | 269.3 | 1971 - 5101 | S | 3536.0 | 521.6 | 44 |
| **Total Population** | | | | | | | | | | | | | | | | | | | | | | |
| Whole Population | 38 | 0 - 4276 | S | 2095.3 | 727.0 | 123 - 2318 | S | 1220.3 | 365.9 | 51 - 900 | S | 475.2 | 141.5 | 141 - 3713 | S | 1927.3 | 595.4 | 0 - 5134 | S | 2553.0 | 860.3 | 269 |

## Iron

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | | | | |
| Abbott Architect & Abbott Architect c, ci, i | 1 | 147 - 220 | P | 183.3 | 2.3 | 90 - 135 | P | 112.4 | 1.8 | 48 - 72 | P | 59.8 | 1.3 | 133 - 200 | P | 166.6 | 2.1 | 175 - 262 | P | 218.4 | 2.8 | 13 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 142 - 213 | P | 177.5 | 6.2 | 90 - 134 | P | 112.0 | 6.2 | 46 - 69 | P | 57.3 | 4.3 | 128 - 192 | P | 160.0 | 2.9 | 170 - 255 | P | 212.5 | 1.7 | 4 |
| Beck Oly tripyridyltriazine & Beck Olym AU 400/600/5400 | 3 | 162 - 243 | P | 202.2 | 5.6 | 98 - 147 | P | 122.1 | 4.5 | 51 - 76 | P | 63.2 | 4.1 | 150 - 225 | P | 187.4 | 7.2 | 194 - 290 | P | 241.9 | 8.2 | 11 |
| Beck Oly tripyridyltriazine & Beckman AU 480 | 4 | 164 - 246 | P | 204.8 | 3.7 | 98 - 148 | P | 123.0 | 2.6 | 51 - 77 | P | 63.8 | 1.8 | 147 - 221 | P | 183.8 | 3.7 | 197 - 296 | P | 246.4 | 4.6 | 5 |
| Beckman Coulter & Beck Coult Unicel DXC | 5 | 153 - 230 | P | 191.5 | 4.9 | 93 - 140 | P | 116.7 | 3.1 | 49 - 74 | P | 61.8 | 2.2 | 139 - 208 | P | 173.5 | 4.6 | 184 - 276 | P | 229.6 | 5.6 | 14 |
| Beckman Coulter & Beck Olym AU 400/600/5400 | 6 | 163 - 244 | P | 203.4 | 4.2 | 99 - 148 | P | 123.2 | 3.8 | 51 - 77 | P | 64.2 | 3.1 | 148 - 222 | P | 184.8 | 4.5 | 197 - 295 | P | 245.8 | 4.5 | 5 |
| Beckman Coulter & Beckman AU 480 | 7 | 160 - 240 | P | 200.2 | 5.6 | 98 - 148 | P | 123.0 | 1.3 | 51 - 76 | P | 63.4 | 0.8 | 144 - 217 | P | 180.6 | 5.6 | 191 - 287 | P | 239.0 | 8.0 | 6 |
| Beckman Olympus Ferene & Beck Olym AU 400/600/5400 | 8 | 159 - 239 | P | 199.2 | 7.1 | 97 - 146 | P | 121.8 | 3.7 | 51 - 76 | P | 63.7 | 4.0 | 144 - 217 | P | 180.6 | 5.9 | 191 - 287 | P | 239.0 | 8.6 | 9 |
| Beckman Olympus Ferene & Beckman AU 480 | 9 | 167 - 251 | P | 209.3 | 4.0 | 102 - 153 | P | 127.3 | 2.9 | 54 - 81 | P | 67.8 | 2.7 | 152 - 227 | P | 189.5 | 4.3 | 201 - 301 | P | 251.0 | 4.6 | 4 |
| Carolina & Beck Olym AU 400/600/5400 | 10 | 147 - 221 | P | 184.0 | 8.2 | 92 - 138 | P | 114.8 | 6.4 | 48 - 71 | P | 59.4 | 2.4 | 133 - 200 | P | 166.6 | 7.9 | 177 - 265 | P | 220.8 | 10.6 | 6 |
| Carolina & Beckman Synchron CX3/7/9/L | 11 | 143 - 215 | P | 178.8 | 4.3 | 88 - 132 | P | 110.4 | 4.9 | 48 - 72 | P | 60.0 | 2.0 | 131 - 196 | P | 163.6 | 5.0 | 172 - 259 | P | 215.6 | 8.6 | 5 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 12 | 173 - 259 | P | 215.7 | 17.5 | 99 - 149 | P | 124.3 | 10.0 | 49 - 74 | P | 61.3 | 6.8 | 155 - 232 | P | 193.3 | 11.9 | 211 - 317 | P | 263.8 | 13.8 | 6 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 13 | 176 - 264 | P | 220.4 | 7.1 | 103 - 154 | P | 128.7 | 7.5 | 52 - 78 | P | 65.1 | 4.4 | 158 - 236 | P | 197.0 | 6.4 | 211 - 316 | P | 263.7 | 7.7 | 7 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 14 | 181 - 271 | P | 225.8 | 9.3 | 101 - 152 | P | 126.8 | 5.7 | 49 - 73 | P | 61.0 | 3.1 | 162 - 243 | P | 202.5 | 7.9 | 215 - 323 | P | 269.3 | 10.5 | 6 |
| Roche Cobas & Roche Cobas 6000 | 15 | 157 - 235 | P | 195.8 | 3.8 | 97 - 146 | P | 121.8 | 3.8 | 53 - 79 | P | 65.9 | 3.4 | 142 - 214 | P | 178.0 | 3.7 | 186 - 280 | P | 233.0 | 5.1 | 8 |
| Roche Cobas & Roche Cobas Integra | 16 | 150 - 225 | P | 187.3 | 3.1 | 92 - 138 | P | 115.0 | 6.3 | 49 - 73 | P | 60.8 | 4.8 | 137 - 206 | P | 171.8 | 3.6 | 181 - 272 | P | 226.8 | 5.0 | 4 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 17 | 155 - 233 | P | 194.2 | 4.9 | 97 - 145 | P | 121.2 | 3.4 | 52 - 78 | P | 65.4 | 2.5 | 142 - 213 | P | 177.3 | 4.5 | 185 - 278 | P | 231.8 | 6.2 | 15 |
| Sekisui & Beck Olym AU 400/600/5400 | 18 | 138 - 206 | P | 172.0 | 9.2 | 81 - 122 | P | 101.8 | 3.3 | 46 - 68 | P | 57.0 | 9.1 | 121 - 181 | P | 151.0 | 5.3 | 164 - 246 | P | 204.8 | 8.3 | 4 |
| Siemens Advia Iron 2 & Siemens Advia | 19 | 154 - 232 | P | 193.1 | 3.8 | 94 - 142 | P | 118.1 | 2.0 | 50 - 75 | P | 62.7 | 0.9 | 141 - 211 | P | 175.7 | 4.0 | 184 - 275 | P | 229.4 | 4.2 | 7 |
| Siemens Dimension & Siemens Dim RxL, RxL Max | 20 | 146 - 219 | P | 182.6 | 3.6 | 90 - 135 | P | 112.4 | 2.3 | 48 - 72 | P | 59.8 | 1.5 | 133 - 199 | P | 165.8 | 3.3 | 173 - 259 | P | 215.8 | 3.3 | 5 |
| Siemens Dimension & Siemens Dimension EXL | 21 | 145 - 217 | P | 181.2 | 1.7 | 89 - 134 | P | 111.6 | 1.2 | 47 - 71 | P | 59.2 | 0.8 | 132 - 198 | P | 164.9 | 1.5 | 173 - 259 | P | 216.1 | 2.0 | 30 |
| Siemens Dimension & Siemens Dimension Xpand | 22 | 145 - 217 | P | 180.7 | 2.6 | 89 - 133 | P | 111.1 | 1.7 | 47 - 71 | P | 59.1 | 1.4 | 132 - 198 | P | 165.3 | 1.8 | 174 - 261 | P | 217.3 | 2.1 | 8 |
| Sterling Diagnostic & Other spectrophotometers | 23 | 139 - 209 | P | 174.0 | 10.4 | 91 - 137 | P | 114.2 | 7.9 | 44 - 67 | P | 55.6 | 3.7 | 138 - 208 | P | 173.1 | 17.5 | 169 - 254 | P | 211.6 | 13.3 | 9 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | | | | |
| Abbott Architect | 24 | 147 - 220 | P | 183.3 | 2.3 | 90 - 135 | P | 112.4 | 1.8 | 48 - 72 | P | 59.8 | 1.3 | 133 - 200 | P | 166.6 | 2.1 | 175 - 262 | P | 218.4 | 2.8 | 13 |
| Alfa Wassermann | 25 | 142 - 213 | P | 177.5 | 6.2 | 90 - 134 | P | 112.0 | 6.2 | 46 - 69 | P | 57.3 | 4.3 | 128 - 192 | P | 160.0 | 2.9 | 170 - 255 | P | 212.5 | 1.7 | 4 |
| Beck Oly tripyridyltriazine | 26 | 162 - 243 | P | 202.7 | 5.2 | 98 - 147 | P | 122.3 | 4.0 | 51 - 76 | P | 63.5 | 3.4 | 149 - 223 | P | 185.8 | 6.6 | 194 - 291 | P | 242.9 | 7.5 | 17 |
| Beckman Coulter | 27 | 156 - 234 | P | 194.9 | 8.1 | 95 - 143 | P | 118.8 | 4.7 | 50 - 75 | P | 62.2 | 3.0 | 141 - 212 | P | 176.5 | 7.4 | 187 - 280 | P | 233.6 | 10.1 | 27 |
| Beckman Olympus Ferene | 28 | 162 - 242 | P | 202.0 | 7.0 | 99 - 148 | P | 123.2 | 3.9 | 52 - 77 | P | 64.5 | 3.7 | 146 - 219 | P | 182.9 | 6.4 | 194 - 290 | P | 242.0 | 8.6 | 17 |
| Carolina | 29 | 145 - 217 | P | 181.2 | 7.0 | 89 - 134 | P | 111.4 | 6.1 | 47 - 71 | P | 58.9 | 3.8 | 131 - 197 | P | 164.1 | 6.4 | 173 - 260 | P | 216.6 | 9.3 | 15 |
| Ortho Vitros | 30 | 176 - 264 | P | 220.0 | 12.8 | 101 - 152 | P | 126.7 | 8.4 | 50 - 75 | P | 62.8 | 5.5 | 158 - 236 | P | 197.0 | 9.7 | 212 - 318 | P | 265.1 | 11.1 | 19 |
| Pointe Scientific | 31 | 152 - 228 | P | 189.7 | 12.8 | 93 - 140 | P | 116.7 | 5.3 | 49 - 73 | P | 61.0 | 2.4 | 137 - 205 | P | 170.7 | 10.5 | 179 - 268 | P | 223.3 | 15.2 | 5 |
| Roche Cobas | 32 | 155 - 232 | P | 193.6 | 5.2 | 96 - 144 | P | 120.4 | 4.7 | 52 - 78 | P | 64.9 | 3.6 | 141 - 212 | P | 176.7 | 4.6 | 185 - 278 | P | 231.4 | 6.0 | 27 |

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sekisui | 33 | 138 - 206 | P 172.0 | 8.2 | 82 - 123 | P 102.4 | 3.2 | 46 - 68 | P 57.0 | 8.1 | 121 - 182 | P 151.8 | 5.0 | 163 - 245 | P 204.2 | 7.5 | 6 |
| Siemens Advia Iron 2 | 34 | 154 - 232 | P 193.1 | 3.8 | 94 - 142 | P 118.1 | 2.0 | 50 - 75 | P 62.7 | 0.9 | 141 - 211 | P 175.7 | 4.0 | 184 - 275 | P 229.4 | 4.2 | 7 |
| Siemens Dimension | 35 | 145 - 218 | P 181.3 | 2.3 | 89 - 134 | P 111.6 | 1.5 | 47 - 71 | P 59.3 | 1.0 | 132 - 198 | P 165.1 | 1.9 | 173 - 260 | P 216.3 | 2.3 | 44 |
| Sterling Diagnostic | 36 | 140 - 210 | P 174.9 | 10.5 | 92 - 138 | P 115.2 | 8.5 | 45 - 67 | P 55.9 | 3.6 | 139 - 209 | P 173.9 | 18.6 | 171 - 256 | P 213.7 | 12.8 | 11 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Ferene-based | 37 | 148 - 222 | P 185.1 | 9.8 | 91 - 136 | P 113.4 | 6.1 | 48 - 72 | P 60.2 | 3.7 | 134 - 201 | P 167.9 | 9.0 | 177 - 265 | P 221.0 | 12.1 | 95 |
| Ferrozine-based | 38 | 152 - 227 | P 189.4 | 11.0 | 94 - 141 | P 117.7 | 6.3 | 49 - 74 | P 61.6 | 4.6 | 139 - 209 | P 174.1 | 10.3 | 182 - 272 | P 227.0 | 12.5 | 86 |
| Tripyridyltriazine (TPTZ) | 39 | 162 - 243 | P 202.7 | 5.2 | 98 - 147 | P 122.3 | 4.0 | 51 - 76 | P 63.5 | 3.4 | 149 - 223 | P 185.8 | 6.6 | 194 - 291 | P 242.9 | 7.5 | 17 |
| All other methods | 40 | 176 - 264 | P 220.0 | 12.8 | 101 - 152 | P 126.7 | 8.4 | 50 - 75 | P 62.8 | 5.5 | 158 - 236 | P 197.0 | 9.7 | 212 - 318 | P 265.1 | 11.1 | 19 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 41 | 153 - 229 | P 191.2 | 14.2 | 94 - 140 | P 117.0 | 7.4 | 49 - 74 | P 61.3 | 4.4 | 139 - 209 | P 174.2 | 12.6 | 183 - 274 | P 228.7 | 17.1 | 219 |

## Lactic Acid

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott Architect & Abbott Architect c, ci, i | 1 | 4.4 - 7.3 | P 5.84 | 0.24 | 2.6 - 4.4 | P 3.53 | 0.15 | 1.3 - 2.2 | P 1.74 | 0.12 | 4.0 - 6.7 | P 5.34 | 0.24 | 5.3 - 8.8 | P 7.03 | 0.23 | 9 |
| Beckman Coulter Synchron Dx & Beck Coult Unicel DXC | 2 | 4.1 - 6.8 | P 5.48 | 0.16 | 2.4 - 4.1 | P 3.25 | 0.11 | 1.2 - 2.0 | P 1.63 | 0.08 | 3.7 - 6.2 | P 4.93 | 0.15 | 5.0 - 8.3 | P 6.62 | 0.29 | 5 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 3 | 4.3 - 7.1 | P 5.67 | 0.19 | 2.5 - 4.2 | P 3.33 | 0.09 | 1.2 - 2.0 | P 1.63 | 0.09 | 3.9 - 6.5 | P 5.17 | 0.19 | 5.1 - 8.5 | P 6.83 | 0.31 | 4 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 4 | 4.1 - 6.8 | P 5.4 | 0.23 | 2.4 - 4.1 | P 3.25 | 0.21 | 1.1 - 1.8 | P 1.45 | 0.09 | 3.7 - 6.2 | P 4.98 | 0.31 | 4.8 - 8.0 | P 6.38 | 0.31 | 5 |
| Siemens Dimension & Siemens Dimension EXL | 5 | 4.4 - 7.4 | P 5.91 | 0.18 | 2.5 - 4.2 | P 3.39 | 0.15 | 1.1 - 1.8 | P 1.45 | 0.21 | 4.0 - 6.6 | P 5.31 | 0.15 | 5.4 - 9.0 | P 7.16 | 0.15 | 35 |
| Siemens Dimension & Siemens Dimension Xpand | 6 | 4.4 - 7.4 | P 5.93 | 0.19 | 2.6 - 4.3 | P 3.45 | 0.19 | 1.1 - 1.8 | P 1.42 | 0.22 | 4.0 - 6.7 | P 5.34 | 0.19 | 5.4 - 9.0 | P 7.2 | 0.19 | 8 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott Architect | 7 | 4.4 - 7.3 | P 5.84 | 0.24 | 2.6 - 4.4 | P 3.53 | 0.15 | 1.3 - 2.2 | P 1.74 | 0.12 | 4.0 - 6.7 | P 5.34 | 0.24 | 5.3 - 8.8 | P 7.03 | 0.23 | 9 |
| Beckman Coulter Synchron Dx | 8 | 4.1 - 6.8 | P 5.48 | 0.16 | 2.4 - 4.1 | P 3.25 | 0.11 | 1.2 - 2.0 | P 1.63 | 0.08 | 3.7 - 6.2 | P 4.93 | 0.15 | 5.0 - 8.3 | P 6.62 | 0.29 | 5 |
| Beckman Olympus | 9 | 4.3 - 7.1 | P 5.68 | 0.16 | 2.5 - 4.2 | P 3.35 | 0.09 | 1.2 - 2.0 | P 1.63 | 0.08 | 3.8 - 6.4 | P 5.13 | 0.18 | 5.1 - 8.5 | P 6.8 | 0.27 | 5 |
| Ortho Vitros | 10 | 4.1 - 6.8 | P 5.41 | 0.18 | 2.5 - 4.1 | P 3.29 | 0.17 | 1.1 - 1.8 | P 1.48 | 0.06 | 3.8 - 6.3 | P 5.0 | 0.23 | 4.8 - 8.0 | P 6.39 | 0.22 | 11 |
| Roche Cobas | 11 | 4.4 - 7.3 | P 5.88 | 0.04 | 2.7 - 4.5 | P 3.58 | 0.04 | 1.3 - 2.1 | P 1.7 | 0.0 | 4.0 - 6.7 | P 5.38 | 0.04 | 5.4 - 9.0 | P 7.2 | 0.12 | 4 |
| Siemens Dimension | 12 | 4.4 - 7.4 | P 5.92 | 0.18 | 2.5 - 4.3 | P 3.4 | 0.15 | 1.1 - 1.8 | P 1.44 | 0.21 | 4.0 - 6.7 | P 5.32 | 0.16 | 5.4 - 9.0 | P 7.17 | 0.16 | 45 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Spectrophotometric-Other | 13 | 4.3 - 7.1 | P 5.71 | 0.34 | 2.6 - 4.3 | P 3.44 | 0.22 | 1.3 - 2.1 | P 1.7 | 0.13 | 3.9 - 6.5 | P 5.23 | 0.3 | 5.2 - 8.6 | P 6.88 | 0.37 | 11 |
| Beckman methods | 14 | 4.2 - 7.0 | P 5.57 | 0.19 | 2.5 - 4.1 | P 3.3 | 0.11 | 1.2 - 2.0 | P 1.62 | 0.08 | 3.8 - 6.3 | P 5.03 | 0.19 | 5.0 - 8.4 | P 6.71 | 0.29 | 10 |
| luminometric | 15 | 4.4 - 7.3 | P 5.83 | 0.26 | 2.5 - 4.2 | P 3.38 | 0.16 | 1.1 - 1.8 | P 1.45 | 0.2 | 4.0 - 6.6 | P 5.27 | 0.21 | 5.3 - 8.8 | P 7.04 | 0.34 | 56 |
| Roche methods | 16 | 4.4 - 7.3 | P 5.88 | 0.04 | 2.7 - 4.5 | P 3.58 | 0.04 | 1.3 - 2.1 | P 1.7 | 0.0 | 4.0 - 6.7 | P 5.38 | 0.04 | 5.4 - 9.0 | P 7.2 | 0.12 | 4 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 17 | 4.3 - 7.2 | P 5.79 | 0.27 | 2.5 - 4.2 | P 3.39 | 0.17 | 1.1 - 1.9 | P 1.51 | 0.2 | 3.9 - 6.6 | P 5.24 | 0.23 | 5.2 - 8.7 | P 6.99 | 0.35 | 84 |

## Lactate Dehydrogenase, Total (LDH)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott & Abbott Architect c, ci, i | 1 | 428 - 642 | P 534.6 | 9.1 | 244 - 366 | P 305.4 | 5.1 | 104 - 156 | P 130.0 | 5.1 | 385 - 578 | P 481.4 | 7.9 | 522 - 783 | P 652.8 | 13.0 | 5 |
| Abbott Architect & Abbott Architect c, ci, i | 2 | 426 - 639 | P 532.2 | 11.0 | 241 - 362 | P 301.4 | 7.1 | 103 - 154 | P 128.7 | 5.7 | 382 - 573 | P 477.8 | 11.0 | 517 - 776 | P 646.7 | 11.4 | 9 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 3 | 292 - 438 | P 365.0 | 13.9 | 176 - 264 | P 220.2 | 8.8 | 80 - 120 | P 100.2 | 4.5 | 270 - 405 | P 337.3 | 12.1 | 360 - 540 | P 449.8 | 16.9 | 6 |
| Beckman Coulter & Beck Coult Unicel DXC | 4 | 355 - 533 | P 444.3 | 11.9 | 210 - 314 | P 261.9 | 6.4 | 93 - 140 | P 116.3 | 2.7 | 324 - 485 | P 404.5 | 9.4 | 425 - 638 | P 531.7 | 13.1 | 15 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 5 | 354 - 531 | P 442.1 | 26.8 | 203 - 305 | P 253.8 | 15.8 | 89 - 133 | P 110.7 | 7.2 | 318 - 477 | P 397.6 | 24.8 | 425 - 637 | P 531.1 | 31.4 | 17 |
| Beckman Olympus & Beck Olympus AU 2700 | 6 | 374 - 562 | P 468.0 | 23.3 | 216 - 323 | P 269.5 | 18.4 | 96 - 144 | P 119.8 | 5.4 | 341 - 511 | P 425.8 | 23.8 | 451 - 676 | P 563.3 | 23.8 | 4 |
| Beckman Olympus & Beckman AU 480 | 7 | 357 - 536 | P 446.5 | 7.5 | 207 - 310 | P 258.5 | 4.9 | 91 - 136 | P 113.2 | 2.3 | 325 - 487 | P 405.7 | 6.7 | 432 - 649 | P 540.5 | 9.3 | 6 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 8 | 1287 - 1931 | P 1609.2 | 56.1 | 771 - 1157 | P 964.2 | 39.2 | 345 - 518 | P 431.3 | 21.3 | 1172 - 1759 | P 1465.5 | 60.8 | 1485 - 2228 | P 1856.7 | 61.7 | 6 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 9 | 1283 - 1925 | P 1604.1 | 49.9 | 770 - 1155 | P 962.4 | 13.9 | 352 - 528 | P 439.7 | 16.1 | 1167 - 1751 | P 1459.1 | 29.8 | 1501 - 2251 | P 1876.0 | 65.0 | 7 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 10 | 1303 - 1954 | P 1628.5 | 46.4 | 762 - 1143 | P 952.2 | 13.8 | 342 - 513 | P 427.1 | 15.8 | 1180 - 1770 | P 1475.1 | 34.0 | 1570 - 2355 | P 1962.1 | 97.9 | 15 |
| Roche Cobas & Roche Cobas 6000 | 11 | 417 - 626 | P 521.3 | 21.9 | 239 - 358 | P 298.3 | 14.4 | 106 - 158 | P 132.0 | 7.0 | 378 - 567 | P 472.8 | 18.1 | 499 - 748 | P 623.5 | 25.5 | 4 |
| Roche Cobas & Roche Cobas Integra | 12 | 417 - 626 | P 521.5 | 6.0 | 245 - 368 | P 306.8 | 2.7 | 108 - 162 | P 135.3 | 1.3 | 378 - 567 | P 472.3 | 5.0 | 498 - 747 | P 622.8 | 7.8 | 4 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 13 | 416 - 624 | P 519.7 | 12.3 | 241 - 361 | P 301.0 | 9.2 | 106 - 159 | P 132.5 | 4.6 | 376 - 565 | P 470.5 | 13.8 | 503 - 755 | P 629.1 | 19.5 | 11 |
| Roche Cobas Integra & Roche Cobas Integra | 14 | 433 - 650 | P 541.5 | 8.0 | 253 - 380 | P 316.3 | 1.9 | 113 - 170 | P 141.3 | 1.6 | 392 - 588 | P 489.8 | 3.6 | 514 - 771 | P 642.5 | 8.0 | 4 |
| Siemens Advia & Siemens Advia | 15 | 414 - 621 | P 517.8 | 18.1 | 244 - 366 | P 305.2 | 11.2 | 108 - 162 | P 134.8 | 5.7 | 377 - 566 | P 471.8 | 14.9 | 500 - 750 | P 625.0 | 21.8 | 5 |
| Siemens Dimension & Siemens Dimension EXL | 16 | 405 - 607 | P 505.7 | 9.1 | 235 - 353 | P 294.3 | 11.7 | 103 - 155 | P 128.9 | 3.4 | 368 - 552 | P 460.1 | 8.5 | 501 - 751 | P 625.9 | 15.2 | 7 |
| Siemens Dimension & Siemens Dimension Xpand | 17 | 408 - 612 | P 509.8 | 9.5 | 233 - 350 | P 291.8 | 3.9 | 101 - 152 | P 126.8 | 2.5 | 367 - 551 | P 459.3 | 3.1 | 498 - 747 | P 622.3 | 9.3 | 4 |
| Siemens Flex LDI & Siemens Dimension EXL | 18 | 409 - 614 | P 511.8 | 15.4 | 235 - 352 | P 293.3 | 9.1 | 103 - 155 | P 128.8 | 5.9 | 371 - 557 | P 464.2 | 13.3 | 497 - 745 | P 621.2 | 18.9 | 30 |
| Siemens Flex LDI & Siemens Dimension Xpand | 19 | 408 - 612 | P 510.1 | 12.4 | 236 - 354 | P 295.4 | 8.1 | 102 - 154 | P 128.1 | 3.3 | 370 - 555 | P 462.5 | 13.4 | 497 - 745 | P 621.1 | 17.7 | 8 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott | 20 | 428 - 642 | P 534.6 | 9.1 | 244 - 366 | P 305.4 | 5.1 | 104 - 156 | P 130.0 | 5.1 | 385 - 578 | P 481.4 | 7.9 | 522 - 783 | P 652.8 | 13.0 | 5 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abbott Architect | 21 | 426 - 639 | P 532.2 | 11.0 | 241 - 362 | P 301.4 | 7.1 | 103 - 154 | P 128.7 | 5.7 | 382 - 573 | P 477.8 | 11.0 | 517 - 776 | P 646.7 | 11.4 | 9 |
| Alfa Wassermann | 22 | 292 - 438 | P 365.0 | 13.9 | 176 - 264 | P 220.2 | 8.8 | 80 - 120 | P 100.2 | 4.5 | 270 - 405 | P 337.3 | 12.1 | 360 - 540 | P 449.8 | 16.9 | 6 |
| Beckman Coulter | 23 | 353 - 530 | P 441.4 | 15.1 | 207 - 311 | P 259.2 | 9.0 | 92 - 138 | P 114.6 | 4.1 | 321 - 482 | P 401.7 | 11.6 | 424 - 635 | P 529.4 | 16.2 | 20 |
| Beckman Olympus | 24 | 357 - 536 | P 446.6 | 24.6 | 206 - 309 | P 257.2 | 15.3 | 90 - 135 | P 112.5 | 6.8 | 323 - 484 | P 403.3 | 23.6 | 430 - 645 | P 537.5 | 28.7 | 28 |
| Carolina | 25 | 338 - 506 | P 422.0 | 24.9 | 198 - 297 | P 247.1 | 15.5 | 92 - 138 | P 114.6 | 10.1 | 301 - 452 | P 376.6 | 25.3 | 393 - 590 | P 491.5 | 37.9 | 8 |
| Ortho Vitros | 26 | 1297 - 1946 | P 1621.3 | 52.4 | 767 - 1150 | P 958.6 | 23.4 | 346 - 520 | P 433.1 | 19.5 | 1177 - 1765 | P 1471.0 | 41.1 | 1541 - 2311 | P 1926.2 | 98.1 | 30 |
| Roche Cobas | 27 | 416 - 624 | P 520.4 | 14.0 | 241 - 362 | P 301.6 | 10.1 | 106 - 159 | P 132.9 | 5.0 | 377 - 566 | P 471.4 | 13.6 | 501 - 752 | P 626.6 | 19.5 | 20 |
| Roche Cobas Integra | 28 | 430 - 646 | P 538.0 | 10.0 | 251 - 377 | P 313.8 | 5.2 | 112 - 168 | P 139.8 | 3.2 | 389 - 583 | P 486.0 | 8.1 | 514 - 771 | P 642.2 | 7.1 | 5 |
| Sekisui | 29 | 323 - 485 | P 404.0 | 32.3 | 186 - 279 | P 232.8 | 17.5 | 84 - 126 | P 105.0 | 6.1 | 290 - 435 | P 362.8 | 29.7 | 387 - 580 | P 483.3 | 36.1 | 4 |
| Siemens Advia | 30 | 414 - 621 | P 517.8 | 18.1 | 244 - 366 | P 305.2 | 11.2 | 108 - 162 | P 134.8 | 5.7 | 377 - 566 | P 471.8 | 14.9 | 500 - 750 | P 625.0 | 21.8 | 5 |
| Siemens Dimension | 31 | 407 - 610 | P 508.6 | 10.2 | 235 - 353 | P 294.1 | 9.5 | 103 - 154 | P 128.5 | 3.6 | 369 - 553 | P 460.7 | 8.1 | 500 - 749 | P 624.4 | 13.5 | 13 |
| Siemens Flex LDI | 32 | 410 - 615 | P 512.4 | 15.0 | 235 - 353 | P 294.2 | 9.1 | 103 - 155 | P 129.1 | 5.5 | 372 - 558 | P 464.6 | 13.7 | 498 - 746 | P 621.9 | 18.8 | 41 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 33 | 404 - 606 | P 505.0 | 35.6 | 232 - 348 | P 290.3 | 19.3 | 102 - 152 | P 127.0 | 7.9 | 366 - 549 | P 457.1 | 31.9 | 494 - 741 | P 617.2 | 40.8 | 77 |
| Low recovery methods | 34 | 317 - 475 | P 395.7 | 35.1 | 188 - 283 | P 235.6 | 18.7 | 87 - 130 | P 108.4 | 10.9 | 288 - 432 | P 359.8 | 28.4 | 379 - 568 | P 473.6 | 37.0 | 13 |
| Low moderate recovery meths | 35 | 353 - 530 | P 441.6 | 25.9 | 205 - 307 | P 256.2 | 15.3 | 90 - 136 | P 113.0 | 7.1 | 321 - 481 | P 400.9 | 22.2 | 426 - 640 | P 533.0 | 24.6 | 53 |
| All other methods | 36 | 1297 - 1946 | P 1621.3 | 52.4 | 767 - 1150 | P 958.6 | 23.4 | 346 - 520 | P 433.1 | 19.5 | 1177 - 1765 | P 1471.0 | 41.1 | 1541 - 2311 | P 1926.2 | 98.1 | 30 |
| All IFCC Methods | 37 | 419 - 629 | P 524.1 | 15.1 | 243 - 365 | P 304.2 | 10.5 | 108 - 161 | P 134.4 | 5.4 | 380 - 569 | P 474.4 | 14.0 | 504 - 756 | P 629.8 | 18.7 | 25 |
| High moderate recovery meth | 38 | 423 - 635 | P 529.0 | 30.0 | 250 - 375 | P 312.2 | 18.6 | 111 - 166 | P 138.5 | 9.8 | 386 - 579 | P 482.8 | 28.2 | 511 - 766 | P 638.5 | 36.1 | 6 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 39 | 520 - 780 | P 649.7 | 405.7 | 303 - 454 | P 378.3 | 241.1 | 134 - 202 | P 168.0 | 110.2 | 470 - 705 | P 587.9 | 367.5 | 624 - 935 | P 779.4 | 479.5 | 208 |

## Lipase

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbot Architect & Abbott Architect c, ci, i | 1 | 37 - 68 | P 52.2 | 2.0 | 24 - 44 | P 34.2 | 1.5 | 14 - 25 | P 19.4 | 1.1 | 34 - 63 | P 48.1 | 1.8 | 42 - 79 | P 60.6 | 2.4 | 15 |
| Beckman LIP & Beck Coult Unicel DXC | 2 | 27 - 50 | P 38.1 | 2.9 | 22 - 40 | P 30.7 | 2.4 | 17 - 31 | P 24.2 | 2.6 | 26 - 48 | P 37.3 | 2.7 | 29 - 54 | P 41.9 | 3.0 | 15 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 3 | 36 - 67 | P 51.8 | 3.4 | 23 - 43 | P 32.9 | 1.8 | 13 - 25 | P 18.9 | 4.3 | 34 - 62 | P 47.9 | 3.3 | 43 - 79 | P 60.9 | 2.7 | 17 |
| Beckman Olympus & Beckman AU 480 | 4 | 37 - 69 | P 53.0 | 2.4 | 24 - 45 | P 34.3 | 1.8 | 13 - 25 | P 19.0 | 1.5 | 35 - 64 | P 49.6 | 3.4 | 43 - 80 | P 61.6 | 2.8 | 10 |
| Carolina & Beck Olym AU 400/600/5400 | 5 | 31 - 58 | P 44.5 | 3.8 | 27 - 51 | P 39.0 | 3.4 | 22 - 42 | P 32.0 | 1.6 | 30 - 55 | P 42.5 | 4.2 | 31 - 58 | P 44.5 | 3.8 | 4 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 6 | 397 - 738 | P 567.4 | 15.0 | 276 - 513 | P 394.6 | 14.6 | 148 - 274 | P 211.0 | 10.4 | 374 - 695 | P 534.5 | 20.0 | 449 - 833 | P 640.9 | 23.5 | 8 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 7 | 410 - 761 | P 585.5 | 25.8 | 288 - 534 | P 411.0 | 14.7 | 153 - 284 | P 218.2 | 5.9 | 387 - 718 | P 552.2 | 24.1 | 458 - 850 | P 653.8 | 25.0 | 6 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 8 | 399 - 741 | P 569.9 | 11.8 | 283 - 525 | P 403.6 | 13.4 | 157 - 291 | P 224.0 | 5.9 | 375 - 697 | P 535.8 | 14.2 | 451 - 838 | P 644.9 | 13.7 | 11 |
| Roche Cobas Integra & Roche Cobas Integra | 9 | 37 - 70 | P 53.5 | 2.9 | 25 - 47 | P 36.1 | 1.8 | 15 - 28 | P 21.3 | 1.1 | 34 - 64 | P 49.2 | 2.6 | 43 - 80 | P 61.4 | 3.0 | 10 |
| Roche Cobas Integra & Roche e/c, 1XX, X000, Elec series | 10 | 35 - 64 | P 49.6 | 2.8 | 24 - 44 | P 33.6 | 1.8 | 14 - 26 | P 20.1 | 0.8 | 32 - 60 | P 46.1 | 2.6 | 40 - 74 | P 57.1 | 2.9 | 7 |
| Roche/Hitachi & Roche e/c, 1XX, X000, Elec series | 11 | 34 - 63 | P 48.3 | 2.5 | 23 - 43 | P 32.8 | 1.3 | 14 - 26 | P 19.8 | 0.8 | 32 - 59 | P 45.0 | 1.4 | 39 - 72 | P 55.5 | 1.7 | 4 |
| Siemens Advia & Siemens Advia | 12 | 43 - 80 | P 61.4 | 2.3 | 29 - 54 | P 41.6 | 1.6 | 17 - 32 | P 24.8 | 1.2 | 40 - 74 | P 57.0 | 1.8 | 50 - 92 | P 70.8 | 1.7 | 5 |
| Siemens Dimension & Siemens Dimension EXL | 13 | 156 - 289 | P 222.3 | 3.2 | 103 - 190 | P 146.5 | 3.0 | 61 - 114 | P 87.8 | 2.8 | 144 - 267 | P 205.0 | 4.5 | 182 - 337 | P 259.6 | 3.9 | 8 |
| Siemens Dimension & Siemens Dimension Xpand | 14 | 156 - 289 | P 222.4 | 6.8 | 103 - 192 | P 147.6 | 5.6 | 61 - 114 | P 87.6 | 3.7 | 146 - 271 | P 208.6 | 10.9 | 181 - 336 | P 258.8 | 7.7 | 5 |
| Siemens LIPL, liquid & Siemens Dim RxL, RxL Max | 15 | 155 - 287 | P 220.8 | 3.5 | 102 - 189 | P 145.5 | 2.1 | 60 - 111 | P 85.5 | 2.5 | 142 - 263 | P 202.3 | 3.3 | 180 - 333 | P 256.5 | 2.7 | 4 |
| Siemens LIPL, liquid & Siemens Dimension EXL | 16 | 155 - 287 | P 221.0 | 5.2 | 103 - 191 | P 147.1 | 3.4 | 61 - 114 | P 87.8 | 3.1 | 144 - 267 | P 205.3 | 5.2 | 181 - 336 | P 258.2 | 6.4 | 37 |
| Siemens LIPL, liquid & Siemens Dimension Xpand | 17 | 151 - 281 | P 216.2 | 5.6 | 100 - 186 | P 142.8 | 3.0 | 60 - 111 | P 85.1 | 1.9 | 140 - 261 | P 200.7 | 3.7 | 177 - 328 | P 252.5 | 3.9 | 13 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbot Architect | 18 | 37 - 68 | P 52.2 | 2.0 | 24 - 44 | P 34.2 | 1.5 | 14 - 25 | P 19.4 | 1.1 | 34 - 63 | P 48.1 | 1.8 | 42 - 79 | P 60.6 | 2.4 | 15 |
| Beckman LIP | 19 | 27 - 50 | P 38.1 | 2.8 | 22 - 40 | P 30.8 | 2.3 | 17 - 31 | P 23.9 | 2.9 | 27 - 49 | P 37.9 | 3.4 | 29 - 54 | P 41.9 | 2.9 | 17 |
| Beckman Olympus | 20 | 37 - 68 | P 52.2 | 3.0 | 23 - 43 | P 33.4 | 1.9 | 13 - 25 | P 19.0 | 3.4 | 34 - 63 | P 48.5 | 3.3 | 43 - 79 | P 61.0 | 2.7 | 29 |
| Carolina | 21 | 32 - 60 | P 45.8 | 4.7 | 27 - 50 | P 38.6 | 2.8 | 22 - 41 | P 31.5 | 2.7 | 31 - 58 | P 44.3 | 4.6 | 33 - 61 | P 47.3 | 4.9 | 8 |
| Ortho Vitros | 22 | 400 - 743 | P 571.9 | 18.8 | 281 - 523 | P 402.0 | 15.3 | 153 - 284 | P 218.3 | 9.3 | 377 - 700 | P 538.3 | 20.5 | 451 - 838 | P 644.8 | 20.9 | 27 |
| Roche Cobas Integra | 23 | 36 - 67 | P 51.7 | 3.3 | 24 - 45 | P 34.9 | 2.1 | 15 - 27 | P 20.8 | 1.1 | 34 - 62 | P 47.9 | 2.8 | 42 - 77 | P 59.5 | 3.4 | 20 |
| Roche/Hitachi | 24 | 35 - 64 | P 49.6 | 3.5 | 24 - 44 | P 33.6 | 2.1 | 14 - 26 | P 20.2 | 1.2 | 32 - 60 | P 46.2 | 2.7 | 40 - 75 | P 57.4 | 4.1 | 5 |
| Sentinel | 25 | 41 - 76 | P 58.3 | 13.2 | 29 - 54 | P 41.8 | 5.3 | 23 - 42 | P 32.5 | 5.6 | 36 - 68 | P 52.0 | 7.7 | 41 - 76 | P 58.8 | 10.0 | 4 |
| Siemens Advia | 26 | 43 - 80 | P 61.4 | 2.3 | 29 - 54 | P 41.6 | 1.6 | 17 - 32 | P 24.8 | 1.2 | 40 - 74 | P 57.0 | 1.8 | 50 - 92 | P 70.8 | 1.7 | 5 |
| Siemens Dimension | 27 | 156 - 290 | P 222.8 | 5.0 | 103 - 192 | P 147.4 | 4.4 | 62 - 114 | P 88.0 | 3.3 | 145 - 269 | P 206.6 | 7.6 | 182 - 337 | P 259.6 | 5.6 | 14 |
| Siemens LIPL, liquid | 28 | 154 - 286 | P 220.0 | 5.6 | 102 - 190 | P 146.1 | 3.9 | 61 - 113 | P 87.1 | 3.2 | 143 - 265 | P 204.1 | 5.3 | 180 - 334 | P 257.0 | 6.4 | 55 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Enzymatic/colorimetric | 29 | 160 - 297 | P 228.1 | 177.3 | 109 - 203 | P 156.0 | 125.9 | 62 - 115 | P 88.4 | 67.9 | 148 - 275 | P 211.8 | 167.3 | 185 - 343 | P 263.6 | 199.1 | 147 |
| Colorimetric | 30 | 33 - 61 | P 46.9 | 7.3 | 23 - 43 | P 33.1 | 3.0 | 15 - 28 | P 21.5 | 2.8 | 31 - 57 | P 44.1 | 5.5 | 38 - 70 | P 53.6 | 9.2 | 49 |
| All other methods | 31 | 35 - 65 | P 49.9 | 10.3 | 28 - 52 | P 39.7 | 4.1 | 22 - 41 | P 31.8 | 3.9 | 33 - 61 | P 46.8 | 6.9 | 36 - 66 | P 51.1 | 8.9 | 12 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 32 | 120 - 224 | P 172.0 | 168.9 | 82 - 153 | P 117.6 | 118.3 | 48 - 89 | P 68.3 | 63.8 | 112 - 209 | P 160.7 | 158.9 | 138 - 257 | P 197.5 | 191.0 | 211 |

## Magnesium mg/dL

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott & Abbott Architect c, ci, i | 1 | 2.9 - 4.8 | P 3.84 | 0.2 | 2.0 - 3.3 | P 2.62 | 0.15 | 1.2 - 2.1 | P 1.65 | 0.1 | 2.7 - 4.4 | P 3.54 | 0.18 | 3.3 - 5.5 | P 4.41 | 0.2 | 17 |
| Alfa Wassermann & Alfa Wasser Axcel/Alera | 2 | 2.8 - 4.6 | P 3.72 | 0.11 | 1.9 - 3.1 | P 2.5 | 0.13 | 1.2 - 2.0 | P 1.57 | 0.07 | 2.6 - 4.3 | P 3.42 | 0.18 | 3.2 - 5.4 | P 4.3 | 0.16 | 6 |
| Beckman Coulter & Beck Coult Unicel DXC | 3 | 2.8 - 4.7 | P 3.79 | 0.1 | 1.9 - 3.2 | P 2.57 | 0.06 | 1.3 - 2.1 | P 1.7 | 0.05 | 2.6 - 4.4 | P 3.49 | 0.08 | 3.3 - 5.5 | P 4.39 | 0.15 | 20 |
| Beckman Coulter & Beckman AU 480 | 4 | 2.8 - 4.7 | P 3.74 | 0.17 | 2.0 - 3.3 | P 2.6 | 0.11 | 1.3 - 2.2 | P 1.74 | 0.08 | 2.6 - 4.4 | P 3.5 | 0.15 | 3.3 - 5.5 | P 4.36 | 0.14 | 5 |
| Beckman Olympus & Beck Olym AU 400/600/5400 | 5 | 2.9 - 4.8 | P 3.82 | 0.15 | 1.9 - 3.3 | P 2.6 | 0.08 | 1.3 - 2.1 | P 1.71 | 0.08 | 2.7 - 4.4 | P 3.56 | 0.15 | 3.3 - 5.5 | P 4.4 | 0.15 | 23 |
| Beckman Olympus & Beck Olympus AU 2700 | 6 | 2.8 - 4.7 | P 3.72 | 0.04 | 2.0 - 3.3 | P 2.65 | 0.05 | 1.3 - 2.2 | P 1.73 | 0.04 | 2.6 - 4.3 | P 3.43 | 0.04 | 3.2 - 5.3 | P 4.25 | 0.11 | 4 |
| Beckman Olympus & Beckman AU 480 | 7 | 2.9 - 4.8 | P 3.85 | 0.07 | 2.0 - 3.3 | P 2.65 | 0.05 | 1.3 - 2.2 | P 1.73 | 0.05 | 2.7 - 4.4 | P 3.54 | 0.07 | 3.3 - 5.6 | P 4.45 | 0.05 | 10 |
| Carolina & Beck Olym AU 400/600/5400 | 8 | 2.5 - 4.2 | P 3.37 | 0.17 | 1.8 - 3.0 | P 2.43 | 0.12 | 1.3 - 2.2 | P 1.77 | 0.05 | 2.4 - 4.0 | P 3.23 | 0.12 | 2.9 - 4.8 | P 3.87 | 0.17 | 6 |
| Carolina & Beckman Synchron CX3/7/9/L | 9 | 2.8 - 4.7 | P 3.76 | 0.14 | 1.9 - 3.2 | P 2.56 | 0.08 | 1.3 - 2.1 | P 1.68 | 0.13 | 2.7 - 4.4 | P 3.54 | 0.08 | 3.3 - 5.5 | P 4.38 | 0.1 | 5 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 10 | 3.1 - 5.2 | P 4.19 | 0.14 | 2.2 - 3.6 | P 2.89 | 0.08 | 1.4 - 2.4 | P 1.9 | 0.08 | 2.9 - 4.8 | P 3.86 | 0.12 | 3.6 - 6.0 | P 4.8 | 0.14 | 8 |
| Ortho Vitros & Ortho Vitros 5,1 FS | 11 | 3.1 - 5.1 | P 4.1 | 0.11 | 2.1 - 3.6 | P 2.86 | 0.09 | 1.4 - 2.4 | P 1.89 | 0.08 | 2.9 - 4.8 | P 3.83 | 0.12 | 3.5 - 5.9 | P 4.7 | 0.1 | 9 |
| Ortho Vitros & Ortho Vitros not DT or ECi | 12 | 3.1 - 5.1 | P 4.11 | 0.1 | 2.1 - 3.5 | P 2.84 | 0.06 | 1.4 - 2.3 | P 1.88 | 0.06 | 2.9 - 4.8 | P 3.81 | 0.08 | 3.5 - 5.9 | P 4.72 | 0.12 | 19 |
| Roche Cobas & Roche Cobas 6000 | 13 | 2.8 - 4.8 | P 3.8 | 0.07 | 2.0 - 3.3 | P 2.65 | 0.05 | 1.3 - 2.2 | P 1.76 | 0.05 | 2.7 - 4.5 | P 3.56 | 0.05 | 3.3 - 5.5 | P 4.39 | 0.06 | 8 |
| Roche Cobas & Roche Cobas Integra | 14 | 2.8 - 4.7 | P 3.73 | 0.05 | 2.0 - 3.3 | P 2.63 | 0.05 | 1.3 - 2.2 | P 1.73 | 0.05 | 2.6 - 4.4 | P 3.49 | 0.08 | 3.2 - 5.3 | P 4.21 | 0.06 | 7 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 15 | 2.9 - 4.8 | P 3.82 | 0.13 | 2.0 - 3.3 | P 2.65 | 0.09 | 1.3 - 2.2 | P 1.76 | 0.06 | 2.7 - 4.5 | P 3.58 | 0.11 | 3.3 - 5.5 | P 4.43 | 0.14 | 20 |
| Sekisui & Beck Olym AU 400/600/5400 | 16 | 2.9 - 4.8 | P 3.85 | 0.17 | 2.0 - 3.3 | P 2.68 | 0.13 | 1.4 - 2.3 | P 1.83 | 0.11 | 2.7 - 4.4 | P 3.55 | 0.17 | 3.3 - 5.5 | P 4.4 | 0.19 | 5 |
| Siemens Advia & Siemens Advia | 17 | 2.8 - 4.6 | P 3.7 | 0.12 | 2.0 - 3.3 | P 2.63 | 0.07 | 1.3 - 2.2 | P 1.77 | 0.05 | 2.6 - 4.4 | P 3.5 | 0.1 | 3.2 - 5.3 | P 4.25 | 0.15 | 6 |
| Siemens Dimension & Siemens Dim RxL, RxL Max | 18 | 3.0 - 5.0 | P 3.97 | 0.05 | 2.0 - 3.4 | P 2.69 | 0.06 | 1.3 - 2.2 | P 1.74 | 0.05 | 2.7 - 4.6 | P 3.66 | 0.05 | 3.5 - 5.8 | P 4.61 | 0.03 | 7 |
| Siemens Dimension & Siemens Dimension EXL | 19 | 2.9 - 4.9 | P 3.9 | 0.09 | 2.0 - 3.3 | P 2.64 | 0.07 | 1.3 - 2.1 | P 1.69 | 0.06 | 2.7 - 4.5 | P 3.61 | 0.1 | 3.4 - 5.7 | P 4.53 | 0.12 | 51 |
| Siemens Dimension & Siemens Dimension Xpand | 20 | 2.9 - 4.9 | P 3.9 | 0.12 | 2.0 - 3.3 | P 2.67 | 0.08 | 1.3 - 2.1 | P 1.7 | 0.07 | 2.7 - 4.6 | P 3.64 | 0.12 | 3.4 - 5.7 | P 4.54 | 0.13 | 24 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott | 21 | 2.9 - 4.8 | P 3.84 | 0.2 | 2.0 - 3.3 | P 2.62 | 0.15 | 1.2 - 2.1 | P 1.65 | 0.1 | 2.7 - 4.4 | P 3.54 | 0.18 | 3.3 - 5.5 | P 4.41 | 0.2 | 17 |
| Alfa Wassermann | 22 | 2.8 - 4.6 | P 3.72 | 0.11 | 1.9 - 3.1 | P 2.5 | 0.13 | 1.2 - 2.0 | P 1.57 | 0.07 | 2.6 - 4.3 | P 3.42 | 0.18 | 3.2 - 5.4 | P 4.3 | 0.16 | 6 |
| Beckman Coulter | 23 | 2.8 - 4.7 | P 3.79 | 0.12 | 1.9 - 3.2 | P 2.58 | 0.08 | 1.3 - 2.1 | P 1.71 | 0.06 | 2.6 - 4.4 | P 3.5 | 0.1 | 3.3 - 5.5 | P 4.39 | 0.15 | 28 |
| Beckman Olympus | 24 | 2.9 - 4.8 | P 3.82 | 0.13 | 2.0 - 3.3 | P 2.62 | 0.07 | 1.3 - 2.1 | P 1.72 | 0.07 | 2.7 - 4.4 | P 3.54 | 0.13 | 3.3 - 5.5 | P 4.39 | 0.14 | 37 |
| Carolina | 25 | 2.8 - 4.6 | P 3.72 | 0.26 | 1.9 - 3.2 | P 2.59 | 0.16 | 1.3 - 2.2 | P 1.73 | 0.12 | 2.6 - 4.4 | P 3.5 | 0.2 | 3.2 - 5.4 | P 4.28 | 0.3 | 15 |
| Ortho Vitros | 26 | 3.1 - 5.2 | P 4.12 | 0.12 | 2.1 - 3.6 | P 2.85 | 0.07 | 1.4 - 2.4 | P 1.88 | 0.07 | 2.9 - 4.8 | P 3.82 | 0.1 | 3.5 - 5.9 | P 4.73 | 0.12 | 36 |
| Pointe Scientific | 27 | 2.7 - 4.5 | P 3.6 | 0.17 | 1.9 - 3.2 | P 2.54 | 0.08 | 1.3 - 2.1 | P 1.68 | 0.04 | 2.5 - 4.2 | P 3.36 | 0.14 | 3.0 - 5.0 | P 4.02 | 0.23 | 5 |
| Roche Cobas | 28 | 2.8 - 4.8 | P 3.8 | 0.11 | 2.0 - 3.3 | P 2.64 | 0.07 | 1.3 - 2.2 | P 1.75 | 0.06 | 2.7 - 4.4 | P 3.56 | 0.1 | 3.3 - 5.5 | P 4.38 | 0.14 | 36 |
| Sekisui | 29 | 2.8 - 4.7 | P 3.75 | 0.2 | 2.0 - 3.3 | P 2.6 | 0.15 | 1.3 - 2.1 | P 1.72 | 0.19 | 2.6 - 4.3 | P 3.43 | 0.22 | 3.2 - 5.4 | P 4.3 | 0.22 | 7 |
| Siemens Advia | 30 | 2.8 - 4.6 | P 3.7 | 0.12 | 2.0 - 3.3 | P 2.63 | 0.07 | 1.3 - 2.2 | P 1.77 | 0.05 | 2.6 - 4.4 | P 3.5 | 0.1 | 3.2 - 5.3 | P 4.25 | 0.15 | 6 |
| Siemens Dimension | 31 | 2.9 - 4.9 | P 3.91 | 0.1 | 2.0 - 3.3 | P 2.66 | 0.08 | 1.3 - 2.1 | P 1.7 | 0.07 | 2.7 - 4.5 | P 3.62 | 0.11 | 3.4 - 5.7 | P 4.54 | 0.13 | 84 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Calmagite-based | 32 | 2.8 - 4.7 | P 3.77 | 0.14 | 1.9 - 3.2 | P 2.58 | 0.08 | 1.3 - 2.1 | P 1.71 | 0.05 | 2.6 - 4.4 | P 3.49 | 0.12 | 3.3 - 5.4 | P 4.35 | 0.21 | 35 |
| Arsenazo | 33 | 2.8 - 4.7 | P 3.78 | 0.23 | 2.0 - 3.3 | P 2.61 | 0.15 | 1.3 - 2.1 | P 1.69 | 0.11 | 2.6 - 4.4 | P 3.52 | 0.19 | 3.3 - 5.4 | P 4.35 | 0.25 | 33 |
| Magon (Xylidyl Blue)-based | 34 | 2.8 - 4.7 | P 3.75 | 0.18 | 1.9 - 3.2 | P 2.59 | 0.12 | 1.3 - 2.1 | P 1.7 | 0.1 | 2.6 - 4.4 | P 3.48 | 0.17 | 3.2 - 5.4 | P 4.32 | 0.21 | 67 |
| All other methods | 35 | 3.0 - 4.9 | P 3.96 | 0.2 | 2.1 - 3.4 | P 2.74 | 0.13 | 1.4 - 2.3 | P 1.82 | 0.09 | 2.8 - 4.6 | P 3.68 | 0.17 | 3.4 - 5.7 | P 4.55 | 0.22 | 72 |
| MTB (methylthymol blue) | 36 | 2.9 - 4.9 | P 3.91 | 0.1 | 2.0 - 3.3 | P 2.66 | 0.08 | 1.3 - 2.1 | P 1.7 | 0.07 | 2.7 - 4.5 | P 3.62 | 0.11 | 3.4 - 5.7 | P 4.54 | 0.13 | 84 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 37 | 2.9 - 4.8 | P 3.85 | 0.23 | 2.0 - 3.3 | P 2.65 | 0.13 | 1.3 - 2.2 | P 1.73 | 0.11 | 2.7 - 4.5 | P 3.58 | 0.17 | 3.3 - 5.6 | P 4.45 | 0.23 | 292 |

## Magnesium mEq/L

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Roche Cobas & Roche Cobas Integra | 1 | 2.5 - 4.1 | P 3.28 | 0.25 | 1.7 - 2.8 | P 2.28 | 0.19 | 1.1 - 1.9 | P 1.5 | 0.12 | 2.3 - 3.9 | P 3.1 | 0.23 | 2.8 - 4.8 | P 3.8 | 0.29 | 4 |
| SDI Biomed & SDI CA-240, 480 | 2 | 2.3 - 3.8 | P 3.08 | 0.08 | 1.7 - 2.8 | P 2.23 | 0.04 | 1.1 - 1.8 | P 1.48 | 0.04 | 2.1 - 3.5 | P 2.83 | 0.11 | 2.6 - 4.3 | P 3.45 | 0.09 | 4 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Roche Cobas | 3 | 2.5 - 4.1 | P 3.28 | 0.25 | 1.7 - 2.8 | P 2.28 | 0.19 | 1.1 - 1.9 | P 1.5 | 0.12 | 2.3 - 3.9 | P 3.1 | 0.23 | 2.8 - 4.8 | P 3.8 | 0.29 | 4 |
| SDI Biomed | 4 | 2.3 - 3.8 | P 3.08 | 0.08 | 1.7 - 2.8 | P 2.23 | 0.04 | 1.1 - 1.8 | P 1.48 | 0.04 | 2.1 - 3.5 | P 2.83 | 0.11 | 2.6 - 4.3 | P 3.45 | 0.09 | 4 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Magon (Xylidyl Blue)-based | 5 | 2.4 - 4.1 | P 3.24 | 0.23 | 1.7 - 2.9 | P 2.33 | 0.15 | 1.1 - 1.9 | P 1.53 | 0.09 | 2.2 - 3.7 | P 2.96 | 0.18 | 2.7 - 4.6 | P 3.64 | 0.24 | 7 |
| All other methods | 6 | 2.5 - 4.1 | P 3.28 | 0.25 | 1.7 - 2.8 | P 2.28 | 0.19 | 1.1 - 1.9 | P 1.5 | 0.12 | 2.3 - 3.9 | P 3.1 | 0.23 | 2.8 - 4.8 | P 3.8 | 0.29 | 4 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 7 | 2.4 - 4.0 | P 3.23 | 0.23 | 1.7 - 2.8 | P 2.28 | 0.17 | 1.1 - 1.9 | P 1.5 | 0.1 | 2.2 - 3.7 | P 2.99 | 0.2 | 2.8 - 4.6 | P 3.69 | 0.25 | 13 |

## Thyroid Stimulating Hormone

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 8.2 - 11.2 | S 9.71 | 0.49 | 5.0 - 7.0 | S 6.0 | 0.32 | 2.6 - 3.5 | S 3.07 | 0.15 | 7.3 - 10.4 | S 8.86 | 0.52 | 9.4 - 13.4 | S 11.4 | 0.66 | 31 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 6.4 - 10.3 | S 8.34 | 0.64 | 4.6 - 6.4 | S 5.52 | 0.3 | 2.2 - 3.4 | S 2.84 | 0.2 | 6.4 - 9.1 | S 7.75 | 0.44 | 7.3 - 11.6 | S 9.42 | 0.72 | 65 |
| Beckman Coulter Access & Beckman Coulter Dxl | 3 | 6.1 - 10.5 | S 8.31 | 0.73 | 4.7 - 6.6 | S 5.65 | 0.33 | 2.1 - 3.6 | S 2.89 | 0.25 | 6.3 - 9.3 | S 7.82 | 0.5 | 7.3 - 10.8 | S 9.04 | 0.59 | 13 |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| DiaSorin CTK-3 & All gamma counters | 4 | 11.1 - 13.5 | S 12.3 | 0.41 | 8.2 - 9.6 | S 8.9 | 0.23 | 4.4 - 5.9 | S 5.15 | 0.26 | 10.1 - 11.7 | S 10.88 | 0.26 | 11.9 - 13.7 | S 12.83 | 0.29 | 4 |
| MP Biomedicals & All gamma counters | 5 | 7.0 - 14.8 | S 10.93 | 1.3 | 6.8 - 9.9 | S 8.33 | 0.51 | 4.1 - 5.8 | S 4.97 | 0.29 | 6.9 - 14.2 | S 10.54 | 1.21 | 7.4 - 17.5 | S 12.43 | 1.68 | 21 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 6 | 4.9 - 6.1 | S 5.5 | 0.19 | 3.3 - 3.9 | S 3.56 | 0.1 | 1.6 - 2.0 | S 1.81 | 0.06 | 4.5 - 5.6 | S 5.05 | 0.19 | 5.6 - 7.1 | S 6.33 | 0.24 | 8 |
| Ortho Vitros & Ortho Vitros ECi | 7 | 4.4 - 6.1 | S 5.23 | 0.29 | 3.0 - 4.0 | S 3.46 | 0.17 | 1.6 - 2.0 | S 1.79 | 0.06 | 4.2 - 5.4 | S 4.84 | 0.2 | 5.0 - 6.9 | S 5.96 | 0.32 | 7 |
| Qualigen FastPack & Qualigen FastPack | 8 | 6.0 - 7.8 | S 6.9 | 0.32 | 4.2 - 4.7 | S 4.43 | 0.08 | 2.0 - 2.5 | S 2.25 | 0.09 | 5.8 - 6.2 | S 6.0 | 0.07 | 6.7 - 8.0 | S 7.35 | 0.22 | 4 |
| Roche Elecsys & Roche Cobas 6000 | 9 | 8.6 - 9.7 | S 9.15 | 0.18 | 5.6 - 6.6 | S 6.13 | 0.16 | 3.1 - 3.6 | S 3.33 | 0.08 | 7.6 - 9.4 | S 8.5 | 0.29 | 9.6 - 11.2 | S 10.4 | 0.27 | 4 |
| Roche Elecsys & Roche Elecsys | 10 | 8.3 - 9.3 | S 8.78 | 0.17 | 5.8 - 6.2 | S 6.0 | 0.06 | 3.1 - 3.5 | S 3.3 | 0.06 | 7.3 - 8.8 | S 8.05 | 0.26 | 9.2 - 10.5 | S 9.85 | 0.21 | 6 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 11 | 7.9 - 9.6 | S 8.77 | 0.28 | 5.4 - 6.5 | S 5.94 | 0.19 | 2.9 - 3.6 | S 3.25 | 0.12 | 7.4 - 9.0 | S 8.18 | 0.27 | 8.6 - 11.2 | S 9.91 | 0.42 | 25 |
| Roche Elecsys & Roche e411/e601/E170/E2010 | 12 | 7.5 - 9.9 | S 8.71 | 0.39 | 5.4 - 6.6 | S 6.0 | 0.21 | 3.0 - 3.5 | S 3.26 | 0.09 | 7.1 - 9.2 | S 8.14 | 0.35 | 8.2 - 11.6 | S 9.89 | 0.55 | 21 |
| Siemens Advia & Siemens Centaur/Centaur CP | 13 | 2.1 - 14.3 | S 8.19 | 2.05 | 2.0 - 9.0 | S 5.5 | 1.17 | 1.2 - 4.4 | S 2.81 | 0.54 | 2.6 - 13.7 | S 8.17 | 1.85 | 3.5 - 17.1 | S 10.3 | 2.27 | 15 |
| Siemens Dimension & Siemens Dim RxL, RxL Max | 14 | 3.3 - 5.4 | S 4.32 | 0.35 | 2.0 - 3.3 | S 2.68 | 0.22 | 1.0 - 1.8 | S 1.4 | 0.12 | 3.1 - 4.8 | S 3.93 | 0.28 | 4.1 - 6.0 | S 5.08 | 0.31 | 4 |
| Siemens Dimension & Siemens Dimension EXL | 15 | 3.0 - 4.2 | S 3.58 | 0.2 | 1.7 - 2.8 | S 2.25 | 0.17 | 0.9 - 1.4 | S 1.15 | 0.08 | 2.5 - 3.8 | S 3.15 | 0.23 | 3.6 - 4.8 | S 4.18 | 0.2 | 6 |
| Siemens Dimension & Siemens Dimension Xpand | 16 | 3.2 - 4.9 | S 4.05 | 0.3 | 2.0 - 3.1 | S 2.56 | 0.19 | 1.0 - 1.7 | S 1.35 | 0.13 | 3.0 - 4.5 | S 3.75 | 0.24 | 3.8 - 5.9 | S 4.87 | 0.36 | 28 |
| Siemens Dimension LOCI & Siemens Dimension EXL | 17 | 2.9 - 4.1 | S 3.51 | 0.19 | 1.9 - 2.5 | S 2.21 | 0.11 | 1.0 - 1.3 | S 1.14 | 0.06 | 2.7 - 3.8 | S 3.27 | 0.18 | 3.5 - 4.8 | S 4.15 | 0.21 | 49 |
| Siemens Immulite 3rd gen & Siemens Immulite 1000 | 18 | 4.7 - 7.1 | S 5.89 | 0.39 | 3.0 - 4.6 | S 3.79 | 0.26 | 1.0 - 2.9 | S 1.95 | 0.3 | 3.4 - 7.1 | S 5.27 | 0.62 | 3.6 - 10.3 | S 6.94 | 1.12 | 18 |
| Siemens Immulite 3rd gen & Siemens Immulite 2000 | 19 | 4.8 - 8.0 | S 6.38 | 0.53 | 3.0 - 5.1 | S 4.01 | 0.35 | 1.3 - 2.8 | S 2.07 | 0.24 | 4.7 - 7.1 | S 5.94 | 0.4 | 5.8 - 9.1 | S 7.46 | 0.54 | 9 |
| Siemens Immulite Turbo & Siemens Immulite 2000 | 20 | 6.1 - 7.6 | S 6.81 | 0.25 | 3.7 - 5.2 | S 4.47 | 0.25 | 2.1 - 2.5 | S 2.3 | 0.08 | 5.6 - 7.0 | S 6.31 | 0.24 | 6.3 - 9.1 | S 7.69 | 0.46 | 7 |
| Tosoh AIA & Tosoh AIA | 21 | 4.8 - 17.0 | S 10.9 | 2.04 | 5.1 - 9.0 | S 7.07 | 0.65 | 2.6 - 4.5 | S 3.56 | 0.31 | 7.6 - 12.3 | S 9.95 | 0.77 | 9.2 - 16.2 | S 12.66 | 1.17 | 35 |
| Tosoh AIA & Tosoh AIA ST | 22 | 3.3 - 18.2 | S 10.76 | 2.49 | 5.6 - 8.9 | S 7.24 | 0.55 | 3.0 - 4.5 | S 3.71 | 0.25 | 8.0 - 12.6 | S 10.31 | 0.76 | 10.0 - 15.6 | S 12.8 | 0.94 | 22 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 23 | 7.9 - 12.3 | S 10.08 | 0.74 | 5.3 - 7.5 | S 6.38 | 0.36 | 2.7 - 3.8 | S 3.28 | 0.19 | 7.6 - 10.9 | S 9.24 | 0.54 | 9.5 - 13.7 | S 11.6 | 0.69 | 24 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | |
| Abbott CMIA | 24 | 8.2 - 11.2 | S 9.71 | 0.49 | 5.0 - 7.0 | S 6.0 | 0.32 | 2.6 - 3.5 | S 3.07 | 0.15 | 7.3 - 10.4 | S 8.86 | 0.52 | 9.4 - 13.4 | S 11.4 | 0.66 | 31 |
| Beckman Coulter Access | 25 | 6.3 - 10.3 | S 8.33 | 0.66 | 4.6 - 6.5 | S 5.54 | 0.3 | 2.2 - 3.5 | S 2.85 | 0.21 | 6.4 - 9.1 | S 7.76 | 0.45 | 7.3 - 11.4 | S 9.35 | 0.7 | 82 |
| DiaSorin CTK-3 | 26 | 11.2 - 13.5 | S 12.34 | 0.38 | 8.2 - 9.5 | S 8.88 | 0.21 | 4.4 - 6.0 | S 5.2 | 0.25 | 9.6 - 12.6 | S 11.1 | 0.51 | 12.0 - 13.7 | S 12.86 | 0.27 | 5 |
| MP Biomedicals | 27 | 7.1 - 14.9 | S 10.99 | 1.29 | 6.8 - 9.9 | S 8.35 | 0.51 | 4.1 - 5.8 | S 4.97 | 0.29 | 6.9 - 14.3 | S 10.61 | 1.23 | 7.5 - 17.4 | S 12.48 | 1.65 | 22 |
| Ortho Vitros | 28 | 4.6 - 6.2 | S 5.38 | 0.27 | 3.1 - 4.0 | S 3.53 | 0.16 | 1.6 - 2.0 | S 1.81 | 0.07 | 4.3 - 5.6 | S 4.97 | 0.22 | 5.1 - 7.2 | S 6.19 | 0.35 | 16 |
| Qualigen FastPack | 29 | 6.0 - 7.8 | S 6.9 | 0.32 | 4.2 - 4.7 | S 4.43 | 0.08 | 2.0 - 2.5 | S 2.25 | 0.09 | 5.8 - 6.2 | S 6.0 | 0.07 | 6.7 - 8.0 | S 7.35 | 0.22 | 4 |
| Roche Elecsys | 30 | 7.8 - 9.8 | S 8.79 | 0.34 | 5.4 - 6.6 | S 5.99 | 0.2 | 3.0 - 3.6 | S 3.27 | 0.11 | 7.2 - 9.1 | S 8.18 | 0.32 | 8.5 - 11.4 | S 9.94 | 0.47 | 57 |
| Siemens Advia | 31 | 2.2 - 14.1 | S 8.17 | 1.98 | 2.0 - 8.9 | S 5.46 | 1.15 | 1.2 - 4.4 | S 2.79 | 0.52 | 2.6 - 13.5 | S 8.09 | 1.81 | 3.5 - 16.9 | S 10.2 | 2.24 | 16 |
| Siemens Dimension | 32 | 2.9 - 5.1 | S 4.01 | 0.37 | 1.8 - 3.2 | S 2.52 | 0.23 | 0.9 - 1.7 | S 1.32 | 0.14 | 2.7 - 4.7 | S 3.68 | 0.34 | 3.4 - 6.2 | S 4.79 | 0.45 | 40 |
| Siemens Dimension LOCI | 33 | 3.0 - 4.1 | S 3.52 | 0.19 | 1.9 - 2.5 | S 2.21 | 0.11 | 0.9 - 1.3 | S 1.14 | 0.06 | 2.7 - 3.8 | S 3.27 | 0.18 | 3.5 - 4.8 | S 4.15 | 0.2 | 50 |
| Siemens Immulite 3rd gen | 34 | 4.6 - 7.6 | S 6.08 | 0.5 | 3.0 - 4.8 | S 3.87 | 0.31 | 1.1 - 2.8 | S 1.99 | 0.28 | 3.6 - 7.4 | S 5.51 | 0.63 | 4.1 - 10.1 | S 7.12 | 1.0 | 28 |
| Siemens Immulite Turbo | 35 | 4.9 - 8.1 | S 6.53 | 0.53 | 3.0 - 5.5 | S 4.25 | 0.41 | 1.7 - 2.7 | S 2.21 | 0.17 | 4.3 - 7.7 | S 6.01 | 0.56 | 5.6 - 9.4 | S 7.5 | 0.65 | 11 |
| Tosoh AIA | 36 | 4.3 - 17.5 | S 10.87 | 2.2 | 5.3 - 9.0 | S 7.13 | 0.61 | 2.7 - 4.5 | S 3.62 | 0.29 | 7.8 - 12.4 | S 10.1 | 0.78 | 9.5 - 15.9 | S 12.72 | 1.07 | 59 |
| bioMerieux Vidas | 37 | 7.9 - 12.3 | S 10.08 | 0.74 | 5.3 - 7.5 | S 6.38 | 0.36 | 2.7 - 3.8 | S 3.28 | 0.19 | 7.6 - 10.9 | S 9.24 | 0.54 | 9.5 - 13.7 | S 11.6 | 0.69 | 24 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 38 | 5.4 - 13.4 | S 9.39 | 1.33 | 3.1 - 9.4 | S 6.29 | 1.05 | 1.2 - 5.6 | S 3.38 | 0.74 | 5.0 - 12.6 | S 8.77 | 1.27 | 6.2 - 15.4 | S 10.82 | 1.53 | 158 |
| Low recovery methods | 39 | 6.3 - 10.3 | S 8.33 | 0.66 | 4.6 - 6.5 | S 5.54 | 0.3 | 2.2 - 3.5 | S 2.85 | 0.21 | 6.4 - 9.1 | S 7.76 | 0.45 | 7.3 - 11.4 | S 9.35 | 0.7 | 82 |
| High moderate recovery meth | 40 | 0.5 - 17.9 | S 9.19 | 2.89 | 0.8 - 11.2 | S 6.0 | 1.73 | 0.3 - 5.9 | S 3.11 | 0.93 | 1.5 - 15.4 | S 8.46 | 2.32 | 2.1 - 19.2 | S 10.66 | 2.84 | 103 |
| Other | 41 | 1.7 - 14.0 | S 7.85 | 2.06 | 0.8 - 9.5 | S 5.15 | 1.45 | 0 - 5.6 | S 2.76 | 0.94 | 1.4 - 13.2 | S 7.29 | 1.96 | 1.8 - 16.3 | S 9.06 | 2.43 | 8 |
| All other methods | 42 | 4.6 - 6.2 | S 5.38 | 0.27 | 3.1 - 4.0 | S 3.53 | 0.16 | 1.6 - 2.0 | S 1.81 | 0.07 | 4.3 - 5.6 | S 4.97 | 0.22 | 5.1 - 7.2 | S 6.19 | 0.35 | 16 |
| Low moderate recovery meths | 43 | 2.6 - 4.9 | S 3.74 | 0.37 | 1.7 - 3.0 | S 2.35 | 0.23 | 0.8 - 1.6 | S 1.22 | 0.14 | 2.5 - 4.4 | S 3.45 | 0.33 | 3.0 - 5.8 | S 4.44 | 0.46 | 90 |
| **Total Population** | | | | | | | | | | | | | | | | | |
| Whole Population | 44 | 0 - 16.1 | S 7.87 | 2.73 | 0 - 10.8 | S 5.21 | 1.86 | 0 - 5.9 | S 2.74 | 1.04 | 0 - 14.8 | S 7.32 | 2.5 | 0 - 18.1 | S 9.05 | 3.0 | 457 |

## Thyroxine, Free (FT4)

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 2.9 - 4.6 | S 3.73 | 0.29 | 2.5 - 3.6 | S 3.03 | 0.18 | 2.0 - 2.6 | S 2.3 | 0.11 | 2.9 - 4.3 | S 3.61 | 0.24 | 3.0 - 5.2 | S 4.1 | 0.36 | 27 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 2.0 - 3.1 | S 2.55 | 0.18 | 1.9 - 2.8 | S 2.34 | 0.15 | 1.8 - 2.6 | S 2.17 | 0.14 | 2.0 - 3.0 | S 2.51 | 0.16 | 2.1 - 3.1 | S 2.62 | 0.17 | 48 |
| Beckman Coulter Access & Beckman Coulter DxI | 3 | 2.1 - 2.9 | S 2.5 | 0.13 | 1.9 - 2.6 | S 2.28 | 0.12 | 1.7 - 2.5 | S 2.12 | 0.13 | 2.1 - 2.8 | S 2.45 | 0.13 | 2.0 - 3.2 | S 2.61 | 0.19 | 13 |
| MP Biomedicals & All gamma counters | 4 | 2.4 - 3.6 | S 3.0 | 0.19 | 1.5 - 2.6 | S 2.05 | 0.19 | 1.1 - 1.9 | S 1.5 | 0.13 | 2.2 - 3.3 | S 2.77 | 0.19 | 2.6 - 4.2 | S 3.42 | 0.26 | 26 |
| Ortho Vitros & Ortho Vitros 3600, 5600 | 5 | 6.8 - 7.1 | S 6.95 | 0.05 | 6.7 - 7.0 | S 6.85 | 0.05 | 6.3 - 6.6 | S 6.45 | 0.05 | 6.8 - 7.1 | S 6.95 | 0.05 | 6.8 - 7.1 | S 6.95 | 0.05 | 6 |
| Ortho Vitros & Ortho Vitros ECi | 6 | 4.4 - 8.7 | S 6.53 | 0.71 | 5.9 - 7.6 | S 6.78 | 0.28 | 5.6 - 7.3 | S 6.48 | 0.29 | 6.4 - 7.3 | S 6.85 | 0.15 | 6.8 - 7.1 | S 6.93 | 0.04 | 7 |
| Roche Elecsys & Roche Elecsys | 7 | 2.7 - 4.5 | S 3.6 | 0.29 | 2.7 - 3.5 | S 3.14 | 0.14 | 2.4 - 3.1 | S 2.74 | 0.12 | 2.8 - 4.3 | S 3.56 | 0.24 | 3.1 - 4.7 | S 3.86 | 0.27 | 5 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 8 | 3.3 - 3.9 | S 3.6 | 0.11 | 2.9 - 3.4 | S 3.16 | 0.09 | 2.5 - 3.0 | S 2.78 | 0.08 | 3.3 - 3.8 | S 3.54 | 0.09 | 3.2 - 4.4 | S 3.81 | 0.2 | 17 |
| Roche Elecsys & Roche e411/e601/E170/E2010 | 9 | 3.1 - 4.0 | S 3.56 | 0.14 | 2.7 - 3.5 | S 3.12 | 0.14 | 2.3 - 3.2 | S 2.75 | 0.15 | 3.0 - 4.1 | S 3.51 | 0.18 | 3.2 - 4.5 | S 3.85 | 0.21 | 11 |
| Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP | 10 | 1.9 - 3.3 | S 2.59 | 0.22 | 1.9 - 3.0 | S 2.44 | 0.18 | 1.8 - 3.0 | S 2.4 | 0.21 | 2.0 - 3.2 | S 2.58 | 0.2 | 2.0 - 3.4 | S 2.72 | 0.23 | 16 |
| Siemens Dimension & Siemens Dimension Xpand | 11 | 2.8 - 4.5 | S 3.66 | 0.29 | 2.6 - 4.3 | S 3.44 | 0.29 | 2.3 - 4.0 | S 3.16 | 0.3 | 2.6 - 4.7 | S 3.65 | 0.34 | 2.8 - 4.8 | S 3.8 | 0.35 | 21 |
| Siemens Dimension LOCI & Siemens Dimension EXL | 12 | 2.4 - 5.1 | S 3.75 | 0.46 | 2.7 - 3.8 | S 3.28 | 0.18 | 2.6 - 3.3 | S 2.94 | 0.11 | 2.6 - 4.5 | S 3.56 | 0.3 | 2.4 - 5.2 | S 3.81 | 0.46 | 43 |
| Siemens Immulite (1-step) & Siemens Immulite 1000 | 13 | 3.0 - 3.3 | S 3.15 | 0.05 | 2.8 - 3.3 | S 3.03 | 0.08 | 2.9 - 3.2 | S 3.03 | 0.04 | 2.8 - 3.3 | S 3.05 | 0.09 | 2.9 - 3.2 | S 3.05 | 0.05 | 4 |
| Siemens Immulite (1-step) & Siemens Immulite 2000 | 14 | 2.7 - 3.5 | S 3.08 | 0.14 | 2.5 - 3.5 | S 3.02 | 0.16 | 2.6 - 3.6 | S 3.08 | 0.16 | 2.7 - 3.3 | S 2.99 | 0.11 | 2.8 - 3.3 | S 3.05 | 0.09 | 9 |

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Tosoh AIA & Tosoh AIA | 15 | 2.8 - 4.7 | S | 3.77 | 0.33 | 2.4 - 4.4 | S | 3.42 | 0.33 | 2.1 - 4.1 | S | 3.14 | 0.34 | 2.8 - 4.6 | S | 3.71 | 0.29 | 3.1 - 4.8 | S | 3.95 | 0.28 | 22 |
| Tosoh AIA & Tosoh AIA ST | 16 | 3.1 - 4.3 | S | 3.73 | 0.21 | 2.9 - 3.9 | S | 3.44 | 0.17 | 2.8 - 3.6 | S | 3.21 | 0.13 | 3.2 - 4.3 | S | 3.78 | 0.19 | 3.2 - 4.6 | S | 3.91 | 0.24 | 13 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 17 | 2.5 - 3.5 | S | 3.0 | 0.15 | 2.5 - 3.2 | S | 2.87 | 0.11 | 2.5 - 3.2 | S | 2.85 | 0.13 | 2.5 - 3.5 | S | 2.97 | 0.17 | 2.5 - 3.4 | S | 2.98 | 0.15 | 11 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | | | | | | |
| Abbott CMIA | 18 | 2.9 - 4.6 | S | 3.73 | 0.29 | 2.5 - 3.6 | S | 3.03 | 0.18 | 2.0 - 2.6 | S | 2.3 | 0.11 | 2.9 - 4.3 | S | 3.61 | 0.24 | 3.0 - 5.2 | S | 4.1 | 0.36 | 27 |
| Beckman Coulter Access | 19 | 2.0 - 3.1 | S | 2.55 | 0.17 | 1.9 - 2.7 | S | 2.33 | 0.14 | 1.8 - 2.6 | S | 2.17 | 0.14 | 2.0 - 3.0 | S | 2.5 | 0.15 | 2.1 - 3.2 | S | 2.63 | 0.17 | 65 |
| MP Biomedicals | 20 | 2.4 - 3.6 | S | 3.01 | 0.19 | 1.5 - 2.6 | S | 2.06 | 0.19 | 1.1 - 1.9 | S | 1.51 | 0.13 | 2.2 - 3.3 | S | 2.78 | 0.18 | 2.6 - 4.4 | S | 3.46 | 0.3 | 28 |
| Ortho Vitros | 21 | 5.0 - 8.4 | S | 6.7 | 0.57 | 6.2 - 7.4 | S | 6.8 | 0.21 | 5.8 - 7.1 | S | 6.46 | 0.22 | 6.5 - 7.3 | S | 6.89 | 0.12 | 6.8 - 7.1 | S | 6.93 | 0.05 | 14 |
| Roche Cobas | 22 | 3.4 - 3.6 | C | 3.5 | 0.0 | 2.9 - 3.2 | S | 3.06 | 0.05 | 2.4 - 3.0 | S | 2.7 | 0.09 | 3.0 - 3.8 | S | 3.4 | 0.13 | 3.5 - 4.1 | S | 3.8 | 0.09 | 5 |
| Roche Elecsys | 23 | 3.1 - 4.1 | S | 3.59 | 0.16 | 2.8 - 3.5 | S | 3.14 | 0.11 | 2.4 - 3.1 | S | 2.76 | 0.11 | 3.1 - 4.0 | S | 3.53 | 0.15 | 3.2 - 4.4 | S | 3.83 | 0.21 | 38 |
| Siemens Advia/Centaur/CP/XP | 24 | 1.9 - 3.3 | S | 2.59 | 0.22 | 1.9 - 3.0 | S | 2.44 | 0.18 | 1.8 - 3.0 | S | 2.4 | 0.21 | 2.0 - 3.2 | S | 2.58 | 0.2 | 2.0 - 3.4 | S | 2.72 | 0.23 | 16 |
| Siemens Dimension | 25 | 2.9 - 4.5 | S | 3.7 | 0.26 | 2.6 - 4.3 | S | 3.45 | 0.28 | 2.3 - 4.0 | S | 3.16 | 0.29 | 2.8 - 4.6 | S | 3.66 | 0.3 | 2.9 - 4.8 | S | 3.81 | 0.32 | 28 |
| Siemens Dimension LOCI | 26 | 2.4 - 5.1 | S | 3.75 | 0.46 | 2.7 - 3.8 | S | 3.28 | 0.18 | 2.6 - 3.3 | S | 2.94 | 0.11 | 2.6 - 4.5 | S | 3.56 | 0.3 | 2.4 - 5.2 | S | 3.81 | 0.46 | 43 |
| Siemens Immulite (1-step) | 27 | 2.7 - 3.5 | S | 3.08 | 0.13 | 2.6 - 3.4 | S | 3.01 | 0.14 | 2.6 - 3.5 | S | 3.05 | 0.15 | 2.6 - 3.4 | S | 2.99 | 0.13 | 2.8 - 3.3 | S | 3.04 | 0.08 | 15 |
| Siemens Immulite (analog) | 28 | 2.6 - 3.5 | S | 3.08 | 0.15 | 2.6 - 3.6 | S | 3.1 | 0.15 | 1.2 - 4.6 | S | 2.88 | 0.56 | 0.3 - 6.7 | S | 3.52 | 1.07 | 0 - 8.0 | S | 3.75 | 1.42 | 6 |
| Tosoh AIA | 29 | 2.9 - 4.6 | S | 3.76 | 0.28 | 2.6 - 4.3 | S | 3.43 | 0.28 | 2.3 - 4.0 | S | 3.17 | 0.28 | 3.0 - 4.5 | S | 3.73 | 0.26 | 3.1 - 4.7 | S | 3.94 | 0.27 | 36 |
| bioMerieux Vidas | 30 | 2.5 - 3.5 | S | 3.0 | 0.15 | 2.5 - 3.2 | S | 2.87 | 0.11 | 2.5 - 3.2 | S | 2.85 | 0.13 | 2.5 - 3.5 | S | 2.97 | 0.17 | 2.5 - 3.4 | S | 2.98 | 0.15 | 11 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 31 | 1.6 - 4.9 | S | 3.21 | 0.55 | 1.2 - 4.3 | S | 2.77 | 0.52 | 0.8 - 4.1 | S | 2.43 | 0.54 | 1.5 - 4.8 | S | 3.13 | 0.55 | 1.5 - 5.3 | S | 3.42 | 0.64 | 211 |
| TOTAL POPULATION | 32 | 1.6 - 5.2 | S | 3.42 | 0.61 | 2.2 - 3.9 | S | 3.03 | 0.29 | 1.9 - 3.7 | S | 2.8 | 0.29 | 1.9 - 4.4 | S | 3.17 | 0.41 | 1.9 - 5.0 | S | 3.42 | 0.52 | 6 |
| High recovery methods | 33 | 5.0 - 8.4 | S | 6.7 | 0.57 | 6.2 - 7.4 | S | 6.8 | 0.21 | 5.8 - 7.1 | S | 6.46 | 0.22 | 6.5 - 7.3 | S | 6.89 | 0.12 | 6.8 - 7.1 | S | 6.93 | 0.05 | 14 |
| Low recovery methods | 34 | 1.9 - 3.3 | S | 2.59 | 0.22 | 1.9 - 3.0 | S | 2.44 | 0.18 | 1.8 - 3.0 | S | 2.4 | 0.21 | 2.0 - 3.2 | S | 2.58 | 0.2 | 2.0 - 3.4 | S | 2.72 | 0.23 | 16 |
| Low moderate recovery meth | 35 | 2.5 - 4.9 | S | 3.73 | 0.4 | 2.6 - 4.1 | S | 3.35 | 0.24 | 2.3 - 3.7 | S | 3.03 | 0.23 | 2.7 - 4.5 | S | 3.6 | 0.31 | 2.6 - 5.0 | S | 3.81 | 0.41 | 71 |
| High moderate recovery meth | 36 | 2.7 - 3.5 | S | 3.08 | 0.13 | 2.6 - 3.5 | S | 3.04 | 0.15 | 2.0 - 4.0 | S | 3.0 | 0.33 | 1.3 - 5.0 | S | 3.14 | 0.63 | 0.7 - 5.8 | S | 3.26 | 0.84 | 21 |
| **Total Population** | | | | | | | | | | | | | | | | | | | | | | |
| Whole Population | 37 | 1.1 - 5.6 | S | 3.36 | 0.75 | 0.7 - 5.3 | S | 2.99 | 0.76 | 0.4 - 5.0 | S | 2.69 | 0.77 | 1.0 - 5.6 | S | 3.29 | 0.76 | 1.1 - 6.0 | S | 3.54 | 0.81 | 339 |

## Thyroxine, Total (TT4)

| | | | | | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | | | | | |
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 13.5 - 20.2 | P | 16.83 | 0.84 | 8.8 - 13.2 | P | 11.03 | 0.4 | 5.6 - 8.4 | P | 7.04 | 0.38 | 12.3 - 18.5 | P | 15.41 | 0.69 | 15.6 - 23.4 | P | 19.54 | 1.41 | 15 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 10.7 - 16.0 | P | 13.37 | 0.94 | 8.7 - 13.0 | P | 10.87 | 0.85 | 6.4 - 9.6 | P | 7.97 | 0.63 | 10.4 - 15.6 | P | 13.03 | 0.92 | 11.7 - 17.5 | P | 14.57 | 1.02 | 23 |
| Beckman Coulter Access & Beckman Coulter DxI | 3 | 10.4 - 15.6 | P | 13.01 | 0.42 | 8.3 - 12.4 | P | 10.37 | 0.64 | 6.2 - 9.4 | P | 7.8 | 0.46 | 10.0 - 15.1 | P | 12.55 | 0.51 | 11.0 - 16.6 | P | 13.8 | 0.58 | 10 |
| Roche Cobas & Roche e/c, 1XX, X000, Elec series | 4 | 11.4 - 17.1 | P | 14.22 | 0.3 | 7.9 - 11.9 | P | 9.9 | 0.32 | 5.2 - 7.8 | P | 6.5 | 0.33 | 10.9 - 16.4 | P | 13.65 | 0.24 | 13.4 - 20.1 | P | 16.78 | 0.65 | 6 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 5 | 11.5 - 17.3 | P | 14.39 | 0.68 | 7.9 - 11.8 | P | 9.85 | 0.45 | 5.2 - 7.8 | P | 6.48 | 0.27 | 10.7 - 16.0 | P | 13.35 | 0.57 | 13.4 - 20.1 | P | 16.77 | 0.92 | 10 |
| Roche Elecsys & Roche e411/e601/E170/E2010 | 6 | 11.4 - 17.1 | P | 14.24 | 0.82 | 7.9 - 11.8 | P | 9.86 | 0.55 | 5.1 - 7.7 | P | 6.41 | 0.34 | 10.8 - 16.2 | P | 13.48 | 0.54 | 13.4 - 20.2 | P | 16.81 | 1.0 | 8 |
| Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP | 7 | 10.7 - 16.0 | P | 13.33 | 1.08 | 8.4 - 12.6 | P | 10.5 | 0.95 | 5.8 - 8.7 | P | 7.23 | 0.82 | 10.3 - 15.4 | P | 12.87 | 0.95 | 11.7 - 17.5 | P | 14.6 | 1.18 | 9 |
| Siemens Dimension & Siemens Dimension EXL | 8 | 12.6 - 18.8 | P | 15.69 | 0.65 | 8.6 - 12.9 | P | 10.71 | 0.49 | 5.6 - 8.4 | P | 6.98 | 0.45 | 11.6 - 17.4 | P | 14.49 | 0.42 | 13.9 - 20.8 | P | 17.32 | 1.77 | 16 |
| Siemens Dimension & Siemens Dimension Xpand | 9 | 12.8 - 19.1 | P | 15.94 | 0.71 | 8.5 - 12.8 | P | 10.66 | 0.51 | 5.5 - 8.2 | P | 6.86 | 0.6 | 11.7 - 17.5 | P | 14.58 | 0.44 | 14.7 - 22.0 | P | 18.36 | 0.7 | 5 |
| Siemens Immulite & Siemens Immulite 1000 | 10 | 11.1 - 16.7 | P | 13.88 | 1.47 | 7.8 - 11.7 | P | 9.76 | 1.14 | 5.2 - 7.8 | P | 6.54 | 0.61 | 9.9 - 14.8 | P | 12.34 | 1.22 | 12.5 - 18.8 | P | 15.66 | 1.12 | 5 |
| Siemens Immulite & Siemens Immulite 2000 | 11 | 10.9 - 16.3 | P | 13.59 | 1.13 | 8.1 - 12.2 | P | 10.13 | 0.87 | 5.5 - 8.2 | P | 6.84 | 0.61 | 10.2 - 15.3 | P | 12.73 | 1.14 | 12.0 - 18.0 | P | 14.97 | 1.13 | 10 |
| Tosoh AIA & Tosoh AIA | 12 | 11.1 - 16.6 | P | 13.85 | 1.74 | 8.2 - 12.3 | P | 10.25 | 1.07 | 5.4 - 8.1 | P | 6.79 | 0.88 | 10.7 - 16.0 | P | 13.34 | 1.39 | 12.4 - 18.6 | P | 15.53 | 1.64 | 12 |
| Tosoh AIA & Tosoh AIA ST | 13 | 11.0 - 16.5 | P | 13.77 | 0.77 | 8.4 - 12.7 | P | 10.55 | 0.68 | 5.7 - 8.6 | P | 7.18 | 0.48 | 10.5 - 15.8 | P | 13.18 | 0.81 | 12.2 - 18.3 | P | 15.27 | 1.14 | 6 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 14 | 9.0 - 13.5 | P | 11.27 | 0.29 | 8.2 - 12.3 | P | 10.23 | 0.14 | 6.7 - 10.1 | P | 8.4 | 0.14 | 8.7 - 13.1 | P | 10.93 | 0.36 | 9.5 - 14.3 | P | 11.92 | 0.31 | 6 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | | | | | |
| Abbott CMIA | 15 | 13.5 - 20.2 | P | 16.83 | 0.84 | 8.8 - 13.2 | P | 11.03 | 0.4 | 5.6 - 8.4 | P | 7.04 | 0.38 | 12.3 - 18.5 | P | 15.41 | 0.69 | 15.6 - 23.4 | P | 19.54 | 1.41 | 15 |
| Beckman Coulter Access | 16 | 10.6 - 16.0 | P | 13.31 | 0.86 | 8.6 - 12.9 | P | 10.76 | 0.82 | 6.3 - 9.5 | P | 7.93 | 0.59 | 10.4 - 15.6 | P | 12.97 | 0.9 | 11.5 - 17.3 | P | 14.42 | 1.05 | 35 |
| Ortho Vitros | 17 | 14.7 - 22.0 | P | 18.35 | 0.05 | 10.1 - 15.1 | P | 12.6 | 0.0 | 6.0 - 8.9 | P | 7.45 | 0.25 | 13.4 - 20.1 | P | 16.75 | 0.05 | 16.6 - 24.9 | P | 20.75 | 0.65 | 6 |
| Roche Cobas | 18 | 11.5 - 17.2 | P | 14.33 | 0.39 | 8.0 - 12.0 | P | 10.0 | 0.39 | 5.2 - 7.9 | P | 6.56 | 0.33 | 11.0 - 16.5 | P | 13.73 | 0.3 | 13.5 - 20.3 | P | 16.93 | 0.7 | 7 |
| Roche Elecsys | 19 | 11.5 - 17.2 | P | 14.37 | 0.75 | 7.9 - 11.9 | P | 9.91 | 0.49 | 5.2 - 7.8 | P | 6.5 | 0.32 | 10.7 - 16.1 | P | 13.43 | 0.54 | 13.5 - 20.2 | P | 16.83 | 0.97 | 21 |
| Siemens Advia/Centaur/CP/XP | 20 | 10.7 - 16.0 | P | 13.33 | 1.08 | 8.4 - 12.6 | P | 10.5 | 0.95 | 5.8 - 8.7 | P | 7.23 | 0.82 | 10.3 - 15.4 | P | 12.87 | 0.95 | 11.7 - 17.5 | P | 14.6 | 1.18 | 9 |
| Siemens Dimension | 21 | 12.6 - 18.9 | P | 15.71 | 0.65 | 8.5 - 12.8 | P | 10.68 | 0.47 | 5.5 - 8.3 | P | 6.93 | 0.46 | 11.6 - 17.4 | P | 14.52 | 0.43 | 14.1 - 21.1 | P | 17.61 | 1.55 | 24 |
| Siemens Immulite | 22 | 11.0 - 16.4 | P | 13.69 | 1.22 | 8.0 - 12.0 | P | 10.03 | 0.95 | 5.4 - 8.1 | P | 6.78 | 0.62 | 10.2 - 15.2 | P | 12.7 | 1.21 | 12.2 - 18.3 | P | 15.29 | 1.17 | 16 |
| Tosoh AIA | 23 | 11.1 - 16.6 | P | 13.82 | 1.49 | 8.3 - 12.4 | P | 10.35 | 0.97 | 5.5 - 8.3 | P | 6.92 | 0.79 | 10.6 - 15.9 | P | 13.29 | 1.23 | 12.4 - 18.5 | P | 15.44 | 1.5 | 18 |
| bioMerieux Vidas | 24 | 9.0 - 13.5 | P | 11.27 | 0.29 | 8.2 - 12.3 | P | 10.23 | 0.14 | 6.7 - 10.1 | P | 8.4 | 0.14 | 8.7 - 13.1 | P | 10.93 | 0.36 | 9.5 - 14.3 | P | 11.92 | 0.31 | 6 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | | | | | |
| Moderate recovery methods | 25 | 12.3 - 18.5 | P | 15.39 | 1.55 | 8.5 - 12.8 | P | 10.65 | 0.71 | 5.6 - 8.3 | P | 6.94 | 0.58 | 11.5 - 17.2 | P | 14.35 | 1.16 | 13.9 - 20.9 | P | 17.39 | 2.17 | 58 |
| High recovery methods | 26 | 10.6 - 16.0 | P | 13.31 | 0.86 | 8.6 - 12.9 | P | 10.76 | 0.82 | 6.3 - 9.5 | P | 7.93 | 0.59 | 10.4 - 15.6 | P | 12.97 | 0.9 | 11.5 - 17.3 | P | 14.42 | 1.05 | 35 |
| High moderate recovery meth | 27 | 11.4 - 17.1 | P | 14.21 | 1.21 | 8.0 - 12.0 | P | 9.97 | 0.54 | 5.2 - 7.8 | P | 6.54 | 0.79 | 10.8 - 16.2 | P | 13.52 | 1.16 | 13.4 - 20.1 | P | 16.76 | 1.81 | 12 |
| Low moderate recovery meths | 28 | 11.2 - 16.8 | P | 14.0 | 1.84 | 8.1 - 12.2 | P | 10.16 | 0.8 | 5.6 - 8.4 | P | 6.96 | 0.83 | 10.5 - 15.8 | P | 13.14 | 1.49 | 12.9 - 19.3 | P | 16.08 | 2.5 | 33 |
| Low recovery methods | 29 | 10.8 - 16.3 | P | 13.56 | 1.18 | 8.2 - 12.2 | P | 10.2 | 0.98 | 5.6 - 8.3 | P | 6.94 | 0.73 | 10.2 - 15.3 | P | 12.76 | 1.12 | 12.0 - 18.0 | P | 15.03 | 1.22 | 25 |
| **Total Population** | | | | | | | | | | | | | | | | | | | | |

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Whole Population | 30 | 11.4 - 17.2 | P | 14.3 | 1.65 | 8.4 - 12.6 | P | 10.46 | 0.84 | 5.7 - 8.6 | P | 7.13 | 0.8 | 10.8 - 16.2 | P | 13.52 | 1.34 | 12.9 - 19.3 | P | 16.09 | 2.24 | 163 |

## Triiodothyronine, Total (TT3)

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|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 1.35 - 1.64 | S | 1.497 | 0.049 | 1.15 - 1.31 | S | 1.228 | 0.026 | 0.81 - 1.49 | S | 1.153 | 0.113 | 1.23 - 1.65 | S | 1.442 | 0.071 | 1.36 - 1.84 | S | 1.597 | 0.081 | 6 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 1.57 - 2.87 | S | 2.221 | 0.216 | 1.22 - 2.03 | S | 1.622 | 0.135 | 0.91 - 1.57 | S | 1.239 | 0.111 | 1.11 - 2.93 | S | 2.021 | 0.303 | 1.72 - 3.57 | S | 2.643 | 0.308 | 15 |
| Beckman Coulter Access & Beckman Coulter Dxl | 3 | 1.98 - 3.26 | S | 2.622 | 0.213 | 1.34 - 2.18 | S | 1.761 | 0.139 | 0.93 - 1.54 | S | 1.235 | 0.102 | 1.76 - 2.97 | S | 2.367 | 0.201 | 2.44 - 3.72 | S | 3.08 | 0.214 | 10 |
| MP Biomedicals & All gamma counters | 4 | 2.69 - 3.72 | S | 3.206 | 0.171 | 1.74 - 2.49 | S | 2.113 | 0.125 | 1.08 - 1.58 | S | 1.331 | 0.083 | 2.72 - 3.29 | S | 3.004 | 0.094 | 3.24 - 4.14 | S | 3.69 | 0.151 | 14 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 5 | 1.49 - 2.57 | S | 2.029 | 0.179 | 1.41 - 2.02 | S | 1.718 | 0.102 | 1.23 - 1.64 | S | 1.433 | 0.069 | 1.77 - 2.25 | S | 2.011 | 0.08 | 1.82 - 2.69 | S | 2.256 | 0.145 | 15 |
| Roche Elecsys & Roche e411/e601/E170/E2010 | 6 | 1.81 - 2.58 | S | 2.194 | 0.129 | 1.32 - 2.37 | S | 1.844 | 0.174 | 1.17 - 1.91 | S | 1.543 | 0.124 | 1.34 - 2.85 | S | 2.096 | 0.251 | 1.42 - 3.16 | S | 2.293 | 0.29 | 8 |
| Siemens Advia & Siemens Centaur/Centaur CP | 7 | 1.31 - 2.03 | S | 1.671 | 0.119 | 1.33 - 1.79 | S | 1.562 | 0.077 | 1.11 - 1.58 | S | 1.347 | 0.077 | 1.38 - 1.9 | S | 1.64 | 0.087 | 1.41 - 2.19 | S | 1.801 | 0.131 | 10 |
| Siemens Immulite & Siemens Immulite 1000 | 8 | 0.71 - 1.55 | S | 1.13 | 0.14 | 0.65 - 1.35 | S | 1.0 | 0.116 | 0.52 - 1.13 | S | 0.827 | 0.101 | 0.74 - 1.46 | S | 1.1 | 0.121 | 1.08 - 1.7 | S | 1.39 | 0.104 | 4 |
| Siemens Immulite & Siemens Immulite 2000 | 9 | 0.91 - 1.3 | S | 1.107 | 0.065 | 0.7 - 1.29 | S | 0.996 | 0.099 | 0.61 - 1.01 | S | 0.809 | 0.067 | 0.87 - 1.35 | S | 1.111 | 0.081 | 1.0 - 1.4 | S | 1.201 | 0.067 | 9 |
| Tosoh AIA & Tosoh AIA | 10 | 2.09 - 2.11 | C | 2.1 | 0.0 | 1.49 - 1.51 | C | 1.5 | 0.0 | 1.19 - 1.21 | C | 1.2 | 0.0 | 1.99 - 2.01 | C | 2.0 | 0.0 | 2.49 - 2.51 | C | 2.5 | 0.0 | 4 |
| bioMerieux Vidas & bioMerieux mini Vidas/Vidas | 11 | 1.46 - 2.08 | S | 1.769 | 0.102 | 1.32 - 1.69 | S | 1.504 | 0.062 | 0.94 - 1.25 | S | 1.095 | 0.051 | 1.51 - 1.98 | S | 1.744 | 0.077 | 1.72 - 2.13 | S | 1.929 | 0.068 | 8 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | |
| Abbott CMIA | 12 | 1.35 - 1.64 | S | 1.497 | 0.049 | 1.15 - 1.31 | S | 1.228 | 0.026 | 0.81 - 1.49 | S | 1.153 | 0.113 | 1.23 - 1.65 | S | 1.442 | 0.071 | 1.36 - 1.84 | S | 1.597 | 0.081 | 6 |
| Beckman Coulter Access | 13 | 1.48 - 3.32 | S | 2.401 | 0.307 | 1.23 - 2.13 | S | 1.681 | 0.15 | 0.93 - 1.56 | S | 1.241 | 0.105 | 1.2 - 3.16 | S | 2.18 | 0.327 | 1.71 - 3.98 | S | 2.846 | 0.379 | 27 |
| MP Biomedicals | 14 | 2.71 - 3.7 | S | 3.206 | 0.165 | 1.75 - 2.49 | S | 2.119 | 0.123 | 1.09 - 1.58 | S | 1.336 | 0.082 | 2.73 - 3.29 | S | 3.011 | 0.094 | 3.24 - 4.13 | S | 3.684 | 0.147 | 15 |
| Roche Elecsys | 15 | 1.6 - 2.58 | S | 2.086 | 0.163 | 1.37 - 2.15 | S | 1.762 | 0.131 | 1.16 - 1.77 | S | 1.466 | 0.101 | 1.59 - 2.48 | S | 2.035 | 0.149 | 1.68 - 2.85 | S | 2.269 | 0.195 | 29 |
| Siemens Advia | 16 | 1.31 - 2.03 | S | 1.671 | 0.119 | 1.33 - 1.79 | S | 1.562 | 0.077 | 1.11 - 1.58 | S | 1.347 | 0.077 | 1.38 - 1.9 | S | 1.64 | 0.087 | 1.41 - 2.19 | S | 1.801 | 0.131 | 10 |
| Siemens Immulite | 17 | 0.82 - 1.38 | S | 1.102 | 0.094 | 0.7 - 1.29 | S | 0.994 | 0.1 | 0.58 - 1.04 | S | 0.809 | 0.075 | 0.82 - 1.38 | S | 1.101 | 0.093 | 0.9 - 1.59 | S | 1.243 | 0.115 | 14 |
| Tosoh AIA | 18 | 2.09 - 2.11 | C | 2.1 | 0.0 | 1.49 - 1.51 | C | 1.5 | 0.0 | 1.19 - 1.21 | C | 1.2 | 0.0 | 1.99 - 2.01 | C | 2.0 | 0.0 | 2.49 - 2.51 | C | 2.5 | 0.0 | 6 |
| bioMerieux Vidas | 19 | 1.46 - 2.08 | S | 1.769 | 0.102 | 1.32 - 1.69 | S | 1.504 | 0.062 | 0.94 - 1.25 | S | 1.095 | 0.051 | 1.51 - 1.98 | S | 1.744 | 0.077 | 1.72 - 2.13 | S | 1.929 | 0.068 | 8 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | |
| Low moderate recovery meths | 20 | 0.11 - 3.63 | S | 1.872 | 0.588 | 0.52 - 2.38 | S | 1.452 | 0.309 | 0.5 - 1.8 | S | 1.15 | 0.217 | 0.24 - 3.27 | S | 1.754 | 0.505 | 0 - 4.39 | S | 2.17 | 0.741 | 57 |
| High moderate recovery meth | 21 | 0.8 - 4.13 | S | 2.468 | 0.556 | 1.25 - 2.52 | S | 1.884 | 0.212 | 1.08 - 1.76 | S | 1.421 | 0.113 | 0.92 - 3.81 | S | 2.368 | 0.481 | 0.67 - 4.86 | S | 2.763 | 0.698 | 44 |
| High recovery methods | 22 | 2.09 - 2.11 | C | 2.1 | 0.0 | 1.49 - 1.51 | C | 1.5 | 0.0 | 1.19 - 1.21 | C | 1.2 | 0.0 | 1.99 - 2.01 | C | 2.0 | 0.0 | 2.49 - 2.51 | C | 2.5 | 0.0 | 6 |
| Moderate recovery methods | 23 | 1.46 - 2.08 | S | 1.769 | 0.102 | 1.32 - 1.69 | S | 1.504 | 0.062 | 0.94 - 1.25 | S | 1.095 | 0.051 | 1.51 - 1.98 | S | 1.744 | 0.077 | 1.72 - 2.13 | S | 1.929 | 0.068 | 8 |
| **Total Population** | | | | | | | | | | | | | | | | |
| Whole Population | 24 | 0.22 - 4.01 | S | 2.112 | 0.632 | 0.63 - 2.63 | S | 1.632 | 0.333 | 0.6 - 1.92 | S | 1.259 | 0.219 | 0.32 - 3.7 | S | 2.008 | 0.564 | 0.09 - 4.69 | S | 2.39 | 0.766 | 119 |

## T-Uptake % of Total

| | | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| **Initial Grouping by Reagent and Instrument** | | | | | | | | | | | | | | | | |
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 29 - 45 | S | 36.8 | 2.6 | 34 - 52 | S | 43.2 | 2.9 | 43 - 60 | S | 51.6 | 2.9 | 30 - 45 | S | 37.4 | 2.4 | 29 - 42 | S | 35.4 | 2.2 | 5 |
| Beckman Coulter Access & Beckman Coulter Access | 2 | 38 - 55 | S | 46.4 | 2.8 | 42 - 59 | S | 50.4 | 2.8 | 45 - 65 | S | 54.9 | 3.3 | 39 - 54 | S | 46.3 | 2.4 | 38 - 51 | S | 44.1 | 2.1 | 18 |
| Beckman Coulter Access & Beckman Coulter Dxl | 3 | 40 - 52 | S | 46.1 | 2.0 | 47 - 53 | S | 49.7 | 1.0 | 44 - 65 | S | 54.4 | 3.5 | 42 - 50 | S | 45.9 | 1.4 | 36 - 50 | S | 42.9 | 2.3 | 8 |
| Siemens Advia/Centaur/CP/XP & Siemens Centaur/Centaur CP | 4 | 24 - 38 | S | 31.1 | 2.3 | 30 - 47 | S | 38.9 | 2.8 | 35 - 63 | S | 49.0 | 4.6 | 25 - 40 | S | 32.4 | 2.5 | 23 - 34 | S | 28.3 | 1.9 | 7 |
| Siemens Dimension & Siemens Dimension EXL | 5 | 36 - 45 | S | 40.4 | 1.5 | 36 - 48 | S | 42.3 | 2.0 | 38 - 47 | S | 42.8 | 1.5 | 37 - 45 | S | 40.6 | 1.3 | 35 - 45 | S | 40.1 | 1.7 | 12 |
| Siemens Immulite & Siemens Immulite 2000 | 6 | 30 - 41 | S | 35.1 | 1.8 | 30 - 42 | S | 35.9 | 2.0 | 33 - 43 | S | 37.6 | 1.7 | 27 - 44 | S | 35.9 | 2.8 | 28 - 42 | S | 34.8 | 2.4 | 10 |
| Tosoh AIA & Tosoh AIA | 7 | 31 - 49 | S | 40.1 | 3.0 | 39 - 49 | S | 43.9 | 1.6 | 44 - 53 | S | 48.3 | 1.6 | 35 - 49 | S | 41.9 | 2.4 | 29 - 48 | S | 38.9 | 3.2 | 7 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | | | | | |
| Abbott CMIA | 8 | 29 - 45 | S | 36.8 | 2.6 | 34 - 52 | S | 43.2 | 2.9 | 43 - 60 | S | 51.6 | 2.9 | 30 - 45 | S | 37.4 | 2.4 | 29 - 42 | S | 35.4 | 2.2 | 5 |
| Beckman Coulter Access | 9 | 39 - 54 | S | 46.3 | 2.6 | 43 - 57 | S | 50.2 | 2.4 | 45 - 65 | S | 54.8 | 3.3 | 40 - 53 | S | 46.2 | 2.1 | 37 - 50 | S | 43.6 | 2.3 | 27 |
| Roche Elecsys | 10 | 36 - 55 | S | 45.2 | 3.2 | 35 - 52 | S | 43.2 | 2.8 | 32 - 50 | S | 41.3 | 3.0 | 35 - 54 | S | 44.3 | 3.2 | 36 - 57 | S | 46.2 | 3.4 | 6 |
| Siemens Advia/Centaur/CP/XP | 11 | 24 - 38 | S | 31.1 | 2.3 | 30 - 47 | S | 38.9 | 2.8 | 35 - 63 | S | 49.0 | 4.6 | 25 - 40 | S | 32.4 | 2.5 | 23 - 34 | S | 28.3 | 1.9 | 7 |
| Siemens Dimension | 12 | 35 - 48 | S | 41.1 | 2.2 | 37 - 48 | S | 42.7 | 1.9 | 38 - 50 | S | 43.7 | 2.1 | 36 - 46 | S | 41.0 | 1.5 | 35 - 46 | S | 40.6 | 1.9 | 20 |
| Siemens Immulite | 13 | 30 - 40 | S | 34.9 | 1.6 | 31 - 41 | S | 35.9 | 1.8 | 32 - 43 | S | 37.8 | 1.9 | 27 - 43 | S | 35.2 | 2.6 | 25 - 42 | S | 33.8 | 2.9 | 14 |
| Tosoh AIA | 14 | 32 - 48 | S | 39.8 | 2.6 | 40 - 48 | S | 43.9 | 1.4 | 44 - 53 | S | 48.3 | 1.5 | 35 - 48 | S | 41.3 | 2.1 | 30 - 47 | S | 38.7 | 2.8 | 10 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | | | | | |
| All other methods | 15 | 29 - 45 | S | 36.8 | 2.6 | 34 - 52 | S | 43.2 | 2.9 | 43 - 60 | S | 51.6 | 2.9 | 30 - 45 | S | 37.4 | 2.4 | 29 - 42 | S | 35.4 | 2.2 | 5 |
| Very high recovery methods | 16 | 39 - 54 | S | 46.3 | 2.6 | 43 - 57 | S | 50.2 | 2.4 | 45 - 65 | S | 54.8 | 3.3 | 40 - 53 | S | 46.2 | 2.1 | 37 - 50 | S | 43.6 | 2.3 | 27 |
| Low moderate recovery meths | 17 | 18 - 57 | S | 37.6 | 6.6 | 31 - 52 | S | 41.5 | 3.4 | 31 - 61 | S | 46.0 | 4.9 | 21 - 55 | S | 38.0 | 5.8 | 12 - 61 | S | 36.3 | 8.2 | 17 |
| High moderate recovery meth | 18 | 34 - 48 | S | 40.7 | 2.4 | 38 - 49 | S | 43.1 | 1.8 | 37 - 54 | S | 45.2 | 2.9 | 36 - 46 | S | 41.1 | 1.8 | 33 - 47 | S | 39.9 | 2.4 | 30 |
| Moderate recovery methods | 19 | 29 - 42 | S | 35.7 | 2.2 | 29 - 45 | S | 36.9 | 2.6 | 30 - 48 | S | 38.9 | 2.9 | 27 - 45 | S | 36.0 | 2.9 | 25 - 44 | S | 34.7 | 3.2 | 17 |
| **Total Population** | | | | | | | | | | | | | | | | |
| Whole Population | 20 | 22 - 60 | S | 41.1 | 6.3 | 26 - 62 | S | 44.1 | 6.0 | 27 - 68 | S | 47.5 | 6.9 | 23 - 59 | S | 41.3 | 6.0 | 20 - 59 | S | 39.7 | 6.5 | 98 |

## T-Uptake Ratio to Normal

**Initial Grouping by Reagent and Instrument**

| | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Abbott CMIA & Abbott Architect c, ci, i | 1 | 0.58 - 0.82 S 0.704 | 0.04 | 0.43 - 0.66 S 0.544 | 0.037 | 0.25 - 0.49 S 0.372 | 0.04 | 0.51 - 0.83 S 0.67 | 0.054 | 0.59 - 0.95 S 0.77 | 0.059 | 6 |
| Roche Elecsys & Roche e/c, 1XX, X000, Elec series | 2 | 0.36 - 0.71 S 0.535 | 0.059 | 0.5 - 0.76 S 0.63 | 0.043 | 0.6 - 0.76 S 0.683 | 0.026 | 0.38 - 0.72 S 0.55 | 0.057 | 0.28 - 0.7 S 0.493 | 0.07 | 6 |
| **Initial Grouping by Reagent** | | | | | | | | | | | | |
| Abbott CMIA | 3 | 0.58 - 0.82 S 0.704 | 0.04 | 0.43 - 0.66 S 0.544 | 0.037 | 0.25 - 0.49 S 0.372 | 0.04 | 0.51 - 0.83 S 0.67 | 0.054 | 0.59 - 0.95 S 0.77 | 0.059 | 6 |
| Roche Elecsys | 4 | 0.34 - 0.69 S 0.514 | 0.058 | 0.46 - 0.75 S 0.606 | 0.049 | 0.58 - 0.76 S 0.671 | 0.031 | 0.37 - 0.7 S 0.533 | 0.055 | 0.27 - 0.67 S 0.469 | 0.068 | 10 |
| **Initial Grouping by Sensitivity or Principle** | | | | | | | | | | | | |
| Other | 5 | 0.26 - 0.89 S 0.577 | 0.104 | 0.42 - 0.75 S 0.585 | 0.054 | 0.14 - 1.01 S 0.571 | 0.145 | 0.33 - 0.83 S 0.579 | 0.084 | 0.1 - 1.04 S 0.569 | 0.156 | 16 |
| **Total Population** | | | | | | | | | | | | |
| Whole Population | 6 | 0.26 - 0.89 S 0.577 | 0.104 | 0.42 - 0.75 S 0.585 | 0.054 | 0.14 - 1.01 S 0.571 | 0.145 | 0.33 - 0.83 S 0.579 | 0.084 | 0.1 - 1.04 S 0.569 | 0.156 | 16 |