

## IMMUNOASSAY PREMIUM PLUS - LEVEL 3 (IA PREMIUM PLUS 3)

**CAT. NO.** IA3111  
**CAT. NO.** IA3112  
**LOT NO.** 2545EC

**GTIN:** 05055273207279  
**GTIN:** 05055273207286  
**EXPIRY:** 2028-07-28

**SIZE:** 12 x 5 ml  
**SIZE:** 4 x 5 ml

### INTENDED USE

This product is intended for in vitro diagnostic use, as assayed quality control material to monitor the accuracy and reproducibility of analytes listed in the package insert.

**This device is for prescription use only.**

### SAFETY PRECAUTIONS AND WARNINGS

For *in vitro* diagnostic use only. Do not pipette by mouth. Exercise the normal precautions required for handling laboratory reagents.

Human source material, from which this product has been derived, has been tested at donor level for the Human Immunodeficiency Virus (HIV 1, HIV 2) antibody, Hepatitis B Surface Antigen (HbsAg), and Hepatitis C Virus (HCV) antibody and found to be NON-REACTIVE. FDA approved methods have been used to conduct these tests.

However, since no method can offer complete assurance as to the absence of infectious agents, this material and all patient samples should be handled as though capable of transmitting infectious diseases and disposed of accordingly.

The Abbott Architect CA19-9 assay utilises an antibody/antigen system based on the 1116-NA-19-9 antibody. There are reports that the formulation employed with this system may return elevated concentrations, when compared to other methods for samples expressing high levels of 1116-NA-19-9 reactive determinants.

Health and Safety Data Sheets are available on request.

### STORAGE AND STABILITY

**OPENED:** Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 7 days at +2°C to +8°C, if kept capped in original container and free from contamination, or 4 weeks frozen once at -20°C. C-Peptide is stable for 1 day at +2°C to +8°C. Thyroglobulin should be tested within 4 hours of reconstitution when stored at +2°C to +8°C, or within 2 weeks when stored at -20°C.

ACTH should be tested immediately after the 30-minute reconstitution period. No frozen stability claim is made for ACTH, Aldosterone and C-Peptide. Only the required amount of product should be removed. After use, any residual product should NOT BE RETURNED to the original vial.

**UNOPENED:** Store refrigerated (+2°C to +8°C). Stable to expiration date printed on individual vials.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components. If bacterial contamination is suspected, the vial should be discarded and a fresh vial reconstituted.

### PREPARATION

Immunoassay Premium Plus is supplied lyophilised.

1. Carefully reconstitute each vial of lyophilised serum with exactly 5 ml of distilled water at +15°C to +25°C. Close the bottle and allow to stand for 30 minutes before use. Ensure contents are completely dissolved by swirling gently. Avoid formation of foam. Do not shake.
2. Refer to the Control section of the individual analyser application.
3. Refrigerate any unused material. Prior to reuse, mix contents thoroughly.

### MATERIALS PROVIDED

Immunoassay Premium Plus - Level 3: 12 x 5 ml Tri-Level: 4 x 5 ml

### MATERIAL REQUIRED BUT NOT PROVIDED

Volumetric pipette

### VALUE ASSIGNMENT

Each batch of Immunoassay Premium Plus is submitted to a number of external laboratories. Values are assigned from a consensus of results obtained by these laboratories, using a unique statistical analysis. Average values should normally fall within the listed ranges for analytes in the instruments specified in this product insert. However, variations may be caused by instrument reagents and laboratory technique. Therefore, the range produced herein should only be considered as a reference and it is recommended that each laboratory establish its own mean and acceptable ranges. Parathyroid Hormone (PTH) is present in the control, but no claim is made for the expected value or stability of this analyte.

If a method is unavailable, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email [Technical.Services@randox.com](mailto:Technical.Services@randox.com).



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|----------------------------------------------------|-----------------|--------------------------------------------------------|------|------|-------|---------------------|-------------------------------------|--------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |      |      |       |                     |                                     |                                      |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |      |      |       |                     |                                     |                                      |
| Analyte                                            | Unit            | Target                                                 | Low  | High | 1SD   | 2SD                 | Method                              |                                      |
| 17-OH-Progesterone                                 | ng/ml           | 10.6                                                   | 7.95 | 13.3 | 1.35  | 2.70                | DiaMetra ELISA                      |                                      |
|                                                    | nmol/l          | 32.0                                                   | 24.0 | 40.0 | 4.00  | 8.00                |                                     |                                      |
|                                                    | ng/ml           | 15.7                                                   | 11.8 | 19.6 | 1.95  | 3.90                | DRG ELISA                           |                                      |
|                                                    | nmol/l          | 47.5                                                   | 35.6 | 59.4 | 5.95  | 11.9                |                                     |                                      |
|                                                    | ng/ml           | 5.86                                                   | 4.40 | 7.32 | 0.730 | 1.46                | IDS-iSYS 17-OH Progesterone         |                                      |
|                                                    | nmol/l          | 17.7                                                   | 13.3 | 22.1 | 2.20  | 4.40                |                                     |                                      |
|                                                    | ng/ml           | 7.71                                                   | 5.78 | 9.64 | 0.965 | 1.93                | Immunotech RIA                      |                                      |
|                                                    | nmol/l          | 23.3                                                   | 17.5 | 29.1 | 2.90  | 5.80                |                                     |                                      |
|                                                    | 25-OH-Vitamin D | nmol/l                                                 | 96.2 | 72.2 | 120   | 11.9                | 23.8                                | Abbott Alinity i                     |
|                                                    |                 | nmol/l                                                 | 92.9 | 69.7 | 116   | 11.6                | 23.1                                | Abbott Architect (3L52)              |
|                                                    |                 | nmol/l                                                 | 92.6 | 69.5 | 116   | 11.7                | 23.4                                | Abbott Architect (5P02)              |
|                                                    |                 | nmol/l                                                 | 122  | 91.5 | 153   | 15.5                | 31.0                                | Beckman Access 25 OH Vitamin D Total |
| nmol/l                                             |                 | 126                                                    | 94.5 | 158  | 16.0  | 32.0                | Beckman Dxl 600/800                 |                                      |
| nmol/l                                             |                 | 96.3                                                   | 72.2 | 120  | 11.9  | 23.7                | bioMerieux Vidas/mini Vidas/Vidas 3 |                                      |
| nmol/l                                             |                 | 99.9                                                   | 74.9 | 125  | 12.6  | 25.1                | DiaSorin Liaison                    |                                      |
| nmol/l                                             |                 | 102                                                    | 76.5 | 128  | 13.0  | 26.0                | DiaSorin Liaison XL                 |                                      |
| nmol/l                                             |                 | 98.2                                                   | 73.7 | 123  | 12.4  | 24.8                | HPLC                                |                                      |
| nmol/l                                             |                 | 97.3                                                   | 73.0 | 122  | 12.4  | 24.7                | Lifotronic eCL                      |                                      |
| nmol/l                                             |                 | 140                                                    | 105  | 175  | 17.5  | 35.0                | Maccura I Series                    |                                      |
| nmol/l                                             |                 | 165                                                    | 124  | 206  | 20.5  | 41.0                | Ortho Vitros 3600/5600/ECi/XT 7600  |                                      |
| nmol/l                                             |                 | 80.0                                                   | 60.0 | 100  | 10.0  | 20.0                | Roche Vitamin D Total               |                                      |
| nmol/l                                             |                 | 79.7                                                   | 59.8 | 99.6 | 9.95  | 19.9                | Roche Vitamin D Total II            |                                      |
| nmol/l                                             |                 | 82.1                                                   | 61.6 | 103  | 10.5  | 20.9                | Roche Vitamin D Total II e402/e801  |                                      |
| nmol/l                                             |                 | 79.1                                                   | 59.3 | 98.9 | 9.90  | 19.8                | Roche Vitamin D total III           |                                      |
| nmol/l                                             |                 | 82.3                                                   | 61.7 | 103  | 10.4  | 20.7                | Roche Vitamin D Total III e402/e801 |                                      |
| nmol/l                                             |                 | 89.7                                                   | 67.3 | 112  | 11.2  | 22.3                | Shenzhen YHLO iFlash Series         |                                      |
| nmol/l                                             |                 | 143                                                    | 107  | 179  | 18.0  | 36.0                | Siemens Atellica IM                 |                                      |
| nmol/l                                             |                 | 139                                                    | 104  | 174  | 17.5  | 35.0                | Siemens Centaur                     |                                      |
| nmol/l                                             | 147             | 110                                                    | 184  | 18.5 | 37.0  | TOSOH AIA Series    |                                     |                                      |
| nmol/l                                             | 166             | 125                                                    | 207  | 20.5 | 41.0  | Tosoh AIA-CL Series |                                     |                                      |
| ACTH                                               | pg/ml           | 73.6                                                   | 55.2 | 92.0 | 9.20  | 18.4                | Diasource IRMA                      |                                      |
|                                                    | pmol/l          | 16.2                                                   | 12.2 | 20.2 | 2.00  | 4.00                |                                     |                                      |
|                                                    | pg/ml           | 51.8                                                   | 38.9 | 64.7 | 6.45  | 12.9                | Roche Cobas e402/e801               |                                      |
|                                                    | pmol/l          | 11.4                                                   | 8.55 | 14.3 | 1.45  | 2.90                |                                     |                                      |
|                                                    | pg/ml           | 75.5                                                   | 56.6 | 94.4 | 9.45  | 18.9                | Siemens/DPC Immulite 1000           |                                      |
|                                                    | pmol/l          | 16.6                                                   | 12.5 | 20.7 | 2.05  | 4.10                |                                     |                                      |
|                                                    | pg/ml           | 84.5                                                   | 63.4 | 106  | 10.8  | 21.5                | Siemens/DPC Immulite 2000/2500      |                                      |
|                                                    | pmol/l          | 18.6                                                   | 14.0 | 23.2 | 2.30  | 4.60                |                                     |                                      |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                              |
|----------------------------------------------------|---------------|--------------------------------------------------------|------|------|------|------|------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |      |      |      |      |                              |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |      |      |      |      |                              |
| Analyte                                            | Unit          | Target                                                 | Low  | High | 1SD  | 2SD  | Method                       |
| ACTH                                               | pg/ml         | 65.9                                                   | 49.4 | 82.4 | 8.25 | 16.5 | Tosoh AIA-CL Series          |
|                                                    | pmol/l        | 14.5                                                   | 10.9 | 18.1 | 1.80 | 3.60 |                              |
| Aldosterone                                        | pg/ml         | 261                                                    | 196  | 326  | 32.5 | 65.0 | DiaSorin Liaison             |
|                                                    | pmol/l        | 724                                                    | 543  | 905  | 90.5 | 181  |                              |
|                                                    | pg/ml         | 276                                                    | 207  | 345  | 34.5 | 69.0 | DiaSorin Liaison XL          |
|                                                    | pmol/l        | 764                                                    | 573  | 955  | 95.5 | 191  |                              |
|                                                    | pg/ml         | 287                                                    | 215  | 359  | 36.0 | 72.0 | IDS iSYS                     |
|                                                    | pmol/l        | 795                                                    | 596  | 994  | 99.5 | 199  |                              |
|                                                    | pg/ml         | 359                                                    | 269  | 449  | 45.0 | 90.0 | Immunotech RIA               |
|                                                    | pmol/l        | 994                                                    | 746  | 1242 | 124  | 248  |                              |
| Alpha-fetoprotein                                  | ng/ml         | 157                                                    | 126  | 188  | 15.5 | 31.0 | 3HB-GGG Start                |
|                                                    | KIU/l = IU/ml | 130                                                    | 104  | 156  | 13.0 | 26.0 |                              |
|                                                    | ng/ml         | 157                                                    | 126  | 188  | 15.5 | 31.0 | Abbott Alinity i             |
|                                                    | KIU/l = IU/ml | 130                                                    | 104  | 156  | 13.0 | 26.0 |                              |
|                                                    | ng/ml         | 162                                                    | 130  | 194  | 16.0 | 32.0 | Beckman Access/LXi725        |
|                                                    | KIU/l = IU/ml | 134                                                    | 107  | 161  | 13.5 | 27.0 |                              |
|                                                    | ng/ml         | 155                                                    | 124  | 186  | 15.5 | 31.0 | Beckman Dxl 600/800          |
|                                                    | KIU/l = IU/ml | 128                                                    | 102  | 154  | 13.0 | 26.0 |                              |
|                                                    | ng/ml         | 168                                                    | 134  | 202  | 17.0 | 34.0 | Beckman/Immunotech IRMA      |
|                                                    | KIU/l = IU/ml | 139                                                    | 111  | 167  | 14.0 | 28.0 |                              |
|                                                    | ng/ml         | 97.9                                                   | 78.3 | 118  | 10.1 | 20.1 | bioMerieux, Vidas/Mini Vidas |
|                                                    | KIU/l = IU/ml | 80.9                                                   | 64.7 | 97.1 | 8.10 | 16.2 |                              |
|                                                    | ng/ml         | 169                                                    | 135  | 203  | 17.0 | 34.0 | DiaSorin Liaison XL          |
|                                                    | KIU/l = IU/ml | 140                                                    | 112  | 168  | 14.0 | 28.0 |                              |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |     |      |      |                             |                                    |
|----------------------------------------------------|---------------|--------------------------------------------------------|-----|------|------|-----------------------------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |     |      |      |                             |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |     |      |      |                             |                                    |
| Analyte                                            | Unit          | Target                                                 | Low | High | 1SD  | 2SD                         | Method                             |
| Alpha-fetoprotein                                  | ng/ml         | 229                                                    | 183 | 275  | 23.0 | 46.0                        | Finecare                           |
|                                                    | KIU/l = IU/ml | 189                                                    | 151 | 227  | 19.0 | 38.0                        |                                    |
|                                                    | ng/ml         | 163                                                    | 130 | 196  | 16.5 | 33.0                        | Fujirebio Lumipulse G Series       |
|                                                    | KIU/l = IU/ml | 135                                                    | 108 | 162  | 13.5 | 27.0                        |                                    |
|                                                    | ng/ml         | 236                                                    | 189 | 283  | 23.5 | 47.0                        | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | KIU/l = IU/ml | 195                                                    | 156 | 234  | 19.5 | 39.0                        |                                    |
|                                                    | ng/ml         | 157                                                    | 126 | 188  | 15.5 | 31.0                        | Roche Cobas 4000/e411              |
|                                                    | KIU/l = IU/ml | 130                                                    | 104 | 156  | 13.0 | 26.0                        |                                    |
|                                                    | ng/ml         | 165                                                    | 132 | 198  | 16.5 | 33.0                        | Roche Cobas e402/e801              |
|                                                    | KIU/l = IU/ml | 136                                                    | 109 | 163  | 13.5 | 27.0                        |                                    |
|                                                    | ng/ml         | 160                                                    | 128 | 192  | 16.0 | 32.0                        | Roche Cobas e601/ 602              |
|                                                    | KIU/l = IU/ml | 132                                                    | 106 | 158  | 13.0 | 26.0                        |                                    |
| ng/ml                                              | 161           | 129                                                    | 193 | 16.0 | 32.0 | Roche Elecsys               |                                    |
| KIU/l = IU/ml                                      | 133           | 106                                                    | 160 | 13.5 | 27.0 |                             |                                    |
| ng/ml                                              | 143           | 114                                                    | 172 | 14.5 | 29.0 | Shenzhen YHLO iFlash Series |                                    |
| KIU/l = IU/ml                                      | 118           | 94.4                                                   | 142 | 12.0 | 24.0 |                             |                                    |
| ng/ml                                              | 231           | 185                                                    | 277 | 23.0 | 46.0 | Siemens Atellica IM         |                                    |
| KIU/l = IU/ml                                      | 191           | 153                                                    | 229 | 19.0 | 38.0 |                             |                                    |

| Method                                             |               |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |       |      |                                |                |
|----------------------------------------------------|---------------|--------|--------------------------------------------------------|------|-------|------|--------------------------------|----------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |        |                                                        |      |       |      |                                |                |
| Size: 12 x 5 ml / 4 x 5 ml                         |               |        | Range                                                  |      |       |      |                                |                |
| Analyte                                            | Unit          | Target | Low                                                    | High | 1SD   | 2SD  | Method                         |                |
| Alpha-fetoprotein                                  | ng/ml         | 237    | 190                                                    | 284  | 23.5  | 47.0 | Siemens Centaur                |                |
|                                                    | KIU/l = IU/ml | 196    | 157                                                    | 235  | 19.5  | 39.0 |                                |                |
|                                                    | ng/ml         | 128    | 102                                                    | 154  | 13.0  | 26.0 | Siemens/DPC Immulite 2000/2500 |                |
|                                                    | KIU/l = IU/ml | 106    | 84.8                                                   | 127  | 10.5  | 21.0 |                                |                |
|                                                    | ng/ml         | 146    | 117                                                    | 175  | 14.5  | 29.0 | Sysmex HISCL Series            |                |
|                                                    | KIU/l = IU/ml | 121    | 96.8                                                   | 145  | 12.0  | 24.0 |                                |                |
|                                                    | ng/ml         | 146    | 117                                                    | 175  | 14.5  | 29.0 | TOSOH AIA Series               |                |
|                                                    | KIU/l = IU/ml | 121    | 96.8                                                   | 145  | 12.0  | 24.0 |                                |                |
|                                                    | ng/ml         | 133    | 106                                                    | 160  | 13.5  | 27.0 | Tosoh AIA-CL Series            |                |
|                                                    | KIU/l = IU/ml | 110    | 88.0                                                   | 132  | 11.0  | 22.0 |                                |                |
|                                                    | Amikacin      | µg/ml  | 12.8                                                   | 10.2 | 15.4  | 1.30 | 2.60                           | Abbott Alinity |
|                                                    |               | µmol/l | 21.9                                                   | 17.5 | 26.3  | 2.20 | 4.40                           |                |
| µg/ml                                              |               | 12.6   | 10.1                                                   | 15.1 | 1.25  | 2.50 | EMIT                           |                |
| µmol/l                                             |               | 21.5   | 17.2                                                   | 25.8 | 2.15  | 4.30 |                                |                |
| µg/ml                                              |               | 12.9   | 10.3                                                   | 15.5 | 1.30  | 2.60 | Roche Cobas 6000/8000          |                |
| µmol/l                                             |               | 22.0   | 17.6                                                   | 26.4 | 2.20  | 4.40 |                                |                |
| µg/ml                                              |               | 12.6   | 10.1                                                   | 15.1 | 1.25  | 2.50 | Thermo Scientific QMS Amikacin |                |
| µmol/l                                             |               | 21.6   | 17.3                                                   | 25.9 | 2.15  | 4.30 |                                |                |
| Androstenedione                                    | ng/ml         | 7.35   | 5.51                                                   | 9.19 | 0.920 | 1.84 | Beckman Coulter Active RIA     |                |
|                                                    | nmol/l        | 25.6   | 19.2                                                   | 32.0 | 3.20  | 6.40 |                                |                |
|                                                    | ng/ml         | 7.58   | 5.69                                                   | 9.47 | 0.945 | 1.89 | DiaMetra ELISA                 |                |
|                                                    | nmol/l        | 26.4   | 19.8                                                   | 33.0 | 3.30  | 6.60 |                                |                |
|                                                    | ng/ml         | 9.33   | 7.00                                                   | 11.7 | 1.19  | 2.37 | DiaSorin Liaison XL            |                |
|                                                    | nmol/l        | 32.5   | 24.4                                                   | 40.6 | 4.05  | 8.10 |                                |                |
|                                                    | ng/ml         | 7.66   | 5.75                                                   | 9.57 | 0.955 | 1.91 | LC/MS                          |                |
|                                                    | nmol/l        | 26.7   | 20.0                                                   | 33.4 | 3.35  | 6.70 |                                |                |
|                                                    | ng/ml         | 7.40   | 5.55                                                   | 9.25 | 0.925 | 1.85 | Roche Elecsys                  |                |
|                                                    | nmol/l        | 25.8   | 19.4                                                   | 32.2 | 3.20  | 6.40 |                                |                |

| Method                                             |              |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |       |       |                                |
|----------------------------------------------------|--------------|--------|--------------------------------------------------------|------|-------|-------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |              |        |                                                        |      |       |       |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |              |        | Range                                                  |      |       |       |                                |
| Analyte                                            | Unit         | Target | Low                                                    | High | 1SD   | 2SD   | Method                         |
| Androstenedione                                    | ng/ml        | 6.77   | 5.08                                                   | 8.46 | 0.845 | 1.69  | Siemens Atellica IM            |
|                                                    | nmol/l       | 23.6   | 17.7                                                   | 29.5 | 2.95  | 5.90  |                                |
|                                                    | ng/ml        | 11.2   | 8.40                                                   | 14.0 | 1.40  | 2.80  | Siemens/DPC Immulite 2000      |
|                                                    | nmol/l       | 39.1   | 29.3                                                   | 48.9 | 4.90  | 9.80  |                                |
| Beta-2-Microglobulin                               | µg/ml = mg/l | 5.47   | 4.38                                                   | 6.56 | 0.545 | 1.09  | Abbott Alinity                 |
|                                                    | µg/ml = mg/l | 5.20   | 4.16                                                   | 6.24 | 0.520 | 1.04  | Abbott Architect               |
|                                                    | µg/ml = mg/l | 5.18   | 4.14                                                   | 6.22 | 0.520 | 1.04  | Beckman AU Instruments         |
|                                                    | µg/ml = mg/l | 5.42   | 4.34                                                   | 6.50 | 0.540 | 1.08  | bioMerieux, VIDAS              |
|                                                    | µg/ml = mg/l | 5.31   | 4.25                                                   | 6.37 | 0.530 | 1.06  | DiaSorin Liaison XL            |
|                                                    | µg/ml = mg/l | 5.11   | 4.09                                                   | 6.13 | 0.510 | 1.02  | Roche Cobas 4000/c311          |
|                                                    | µg/ml = mg/l | 5.17   | 4.14                                                   | 6.20 | 0.515 | 1.03  | Roche Cobas 6000/8000          |
|                                                    | µg/ml = mg/l | 5.17   | 4.14                                                   | 6.20 | 0.515 | 1.03  | Roche Elecsys                  |
|                                                    | µg/ml = mg/l | 5.14   | 4.11                                                   | 6.17 | 0.515 | 1.03  | Roche Tinaquant                |
|                                                    | µg/ml = mg/l | 6.26   | 5.01                                                   | 7.51 | 0.625 | 1.25  | Siemens Atellica CH            |
|                                                    | µg/ml = mg/l | 5.17   | 4.14                                                   | 6.20 | 0.515 | 1.03  | Siemens/Behring Nephelometer   |
|                                                    | µg/ml = mg/l | 4.63   | 3.70                                                   | 5.56 | 0.465 | 0.930 | Siemens/DPC Immulite 2000/2500 |
|                                                    | µg/ml = mg/l | 4.97   | 3.98                                                   | 5.96 | 0.495 | 0.990 | Tosoh AIA-CL Series            |
| C-Peptide                                          | ng/ml        | 5.95   | 4.46                                                   | 7.44 | 0.745 | 1.49  | Abbott Alinity i               |
|                                                    | nmol/l       | 1.97   | 1.48                                                   | 2.46 | 0.245 | 0.490 |                                |
|                                                    | ng/ml        | 6.13   | 4.60                                                   | 7.66 | 0.765 | 1.53  | Abbott Architect               |
|                                                    | nmol/l       | 2.03   | 1.52                                                   | 2.54 | 0.255 | 0.510 |                                |
|                                                    | ng/ml        | 4.08   | 3.06                                                   | 5.10 | 0.510 | 1.02  | Beckman Access C-Peptide       |
|                                                    | nmol/l       | 1.35   | 1.01                                                   | 1.69 | 0.170 | 0.340 |                                |
|                                                    | ng/ml        | 6.88   | 5.16                                                   | 8.60 | 0.860 | 1.72  | DiaSorin Liaison               |
|                                                    | nmol/l       | 2.28   | 1.71                                                   | 2.85 | 0.285 | 0.570 |                                |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |       |                                     |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|-------|-------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |       |                                     |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |       |                                     |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD   | Method                              |
| C-Peptide                                          | ng/ml  | 7.19                                                   | 5.39 | 8.99 | 0.900 | 1.80  | DiaSorin Liaison XL                 |
|                                                    | nmol/l | 2.38                                                   | 1.79 | 2.97 | 0.295 | 0.590 |                                     |
|                                                    | ng/ml  | 6.46                                                   | 4.85 | 8.07 | 0.805 | 1.61  | Ortho Vitros 3600/5600/ECi/ XT 7600 |
|                                                    | nmol/l | 2.14                                                   | 1.61 | 2.67 | 0.265 | 0.530 |                                     |
|                                                    | ng/ml  | 6.79                                                   | 5.09 | 8.49 | 0.850 | 1.70  | Roche Cobas 4000/e411               |
|                                                    | nmol/l | 2.25                                                   | 1.69 | 2.81 | 0.280 | 0.560 |                                     |
|                                                    | ng/ml  | 6.43                                                   | 4.82 | 8.04 | 0.805 | 1.61  | Roche Cobas e402/e801               |
|                                                    | nmol/l | 2.13                                                   | 1.60 | 2.66 | 0.265 | 0.530 |                                     |
|                                                    | ng/ml  | 6.46                                                   | 4.85 | 8.07 | 0.805 | 1.61  | Roche Cobas e601/ 602               |
|                                                    | nmol/l | 2.14                                                   | 1.61 | 2.67 | 0.265 | 0.530 |                                     |
|                                                    | ng/ml  | 7.31                                                   | 5.48 | 9.14 | 0.915 | 1.83  | Shenzhen YHLO iFlash Series         |
|                                                    | nmol/l | 2.42                                                   | 1.82 | 3.02 | 0.300 | 0.600 |                                     |
|                                                    | ng/ml  | 5.28                                                   | 3.96 | 6.60 | 0.660 | 1.32  | Siemens Atellica IM                 |
|                                                    | nmol/l | 1.75                                                   | 1.31 | 2.19 | 0.220 | 0.440 |                                     |
|                                                    | ng/ml  | 6.16                                                   | 4.62 | 7.70 | 0.770 | 1.54  | Siemens/DPC Immulite 2000/2500      |
|                                                    | nmol/l | 2.04                                                   | 1.53 | 2.55 | 0.255 | 0.510 |                                     |
|                                                    | ng/ml  | 5.89                                                   | 4.42 | 7.36 | 0.735 | 1.47  | TOSOH AIA Series                    |
|                                                    | nmol/l | 1.95                                                   | 1.46 | 2.44 | 0.245 | 0.490 |                                     |
|                                                    | ng/ml  | 5.86                                                   | 4.40 | 7.32 | 0.730 | 1.46  | Tosoh AIA-CL Series                 |
|                                                    | nmol/l | 1.94                                                   | 1.46 | 2.42 | 0.240 | 0.480 |                                     |
| CA 125                                             | U/ml   | 252                                                    | 202  | 302  | 25.0  | 50.0  | Abbott Alinity                      |
|                                                    | U/ml   | 246                                                    | 197  | 295  | 24.5  | 49.0  | Abbott Architect                    |
|                                                    | U/ml   | 142                                                    | 114  | 170  | 14.0  | 28.0  | Beckman Access/LXi725               |
|                                                    | U/ml   | 200                                                    | 160  | 240  | 20.0  | 40.0  | BioMerieux VIDAS                    |
|                                                    | U/ml   | 243                                                    | 194  | 292  | 24.5  | 49.0  | DiaSorin Liaison XL                 |
|                                                    | U/ml   | 191                                                    | 153  | 229  | 19.0  | 38.0  | Fujirebio Lumipulse G Series        |
|                                                    | U/ml   | 86.8                                                   | 69.4 | 104  | 8.60  | 17.2  | Immunotech IRMA                     |
|                                                    | U/ml   | 169                                                    | 135  | 203  | 17.0  | 34.0  | Roche Cobas 4000/e411               |
|                                                    | U/ml   | 156                                                    | 125  | 187  | 15.5  | 31.0  | Roche Cobas e402/e801               |
|                                                    | U/ml   | 166                                                    | 133  | 199  | 16.5  | 33.0  | Roche Cobas e601/ 602               |
|                                                    | U/ml   | 164                                                    | 131  | 197  | 16.5  | 33.0  | Roche Elecsys                       |
|                                                    | U/ml   | 233                                                    | 186  | 280  | 23.5  | 47.0  | Shenzhen YHLO iFlash Series         |
|                                                    | U/ml   | 213                                                    | 170  | 256  | 21.5  | 43.0  | Siemens Atellica IM                 |
|                                                    | U/ml   | 185                                                    | 148  | 222  | 18.5  | 37.0  | Siemens Centaur CA125 II            |
|                                                    | U/ml   | 176                                                    | 141  | 211  | 17.5  | 35.0  | Siemens Centaur OV Kit              |
|                                                    | U/ml   | 119                                                    | 95.2 | 143  | 12.0  | 24.0  | Siemens/DPC Immulite 2000/2500      |
|                                                    | U/ml   | 47.3                                                   | 37.8 | 56.8 | 4.75  | 9.50  | Sysmex HISCL Series                 |
|                                                    | U/ml   | 376                                                    | 301  | 451  | 37.5  | 75.0  | TOSOH AIA Series                    |
|                                                    | U/ml   | 254                                                    | 203  | 305  | 25.5  | 51.0  | Tosoh AIA-CL Series                 |

| Method                                             |      | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                    |
|----------------------------------------------------|------|--------------------------------------------------------|------|------|------|------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |      |                                                        |      |      |      |      |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |      | Range                                                  |      |      |      |      |                                    |
| Analyte                                            | Unit | Target                                                 | Low  | High | 1SD  | 2SD  | Method                             |
| CA 15-3                                            | U/ml | 74.7                                                   | 59.8 | 89.6 | 7.45 | 14.9 | Abbott Alinity i                   |
|                                                    | U/ml | 75.4                                                   | 60.3 | 90.5 | 7.55 | 15.1 | Abbott Architect                   |
|                                                    | U/ml | 33.9                                                   | 27.1 | 40.7 | 3.40 | 6.80 | Beckman Access/LXi725              |
|                                                    | U/ml | 33.1                                                   | 26.5 | 39.7 | 3.30 | 6.60 | Beckman Dxl 600/800                |
|                                                    | U/ml | 55.1                                                   | 44.1 | 66.1 | 5.50 | 11.0 | BioMerieux VIDAS                   |
|                                                    | U/ml | 65.1                                                   | 52.1 | 78.1 | 6.50 | 13.0 | DiaSorin Liaison XL                |
|                                                    | U/ml | 69.9                                                   | 55.9 | 83.9 | 7.00 | 14.0 | Fujirebio Lumipulse G Series       |
|                                                    | U/ml | 74.4                                                   | 59.5 | 89.3 | 7.45 | 14.9 | Immunotech IRMA                    |
|                                                    | U/ml | 56.6                                                   | 45.3 | 67.9 | 5.65 | 11.3 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | U/ml | 66.4                                                   | 53.1 | 79.7 | 6.65 | 13.3 | Roche Cobas 4000/e411              |
|                                                    | U/ml | 66.4                                                   | 53.1 | 79.7 | 6.65 | 13.3 | Roche Cobas e402/e801              |
|                                                    | U/ml | 67.2                                                   | 53.8 | 80.6 | 6.70 | 13.4 | Roche Cobas e601/ 602              |
|                                                    | U/ml | 64.6                                                   | 51.7 | 77.5 | 6.45 | 12.9 | Roche Elecsys                      |
|                                                    | U/ml | 77.6                                                   | 62.1 | 93.1 | 7.75 | 15.5 | Shenzhen YHLO iFlash Series        |
|                                                    | U/ml | 60.4                                                   | 48.3 | 72.5 | 6.05 | 12.1 | Siemens Atellica IM                |
|                                                    | U/ml | 58.9                                                   | 47.1 | 70.7 | 5.90 | 11.8 | Siemens Centaur                    |
|                                                    | U/ml | 75.9                                                   | 60.7 | 91.1 | 7.60 | 15.2 | Siemens/DPC Immulite 2000/2500     |
|                                                    | U/ml | 78.9                                                   | 63.1 | 94.7 | 7.90 | 15.8 | TOSOH AIA Series                   |
|                                                    | U/ml | 65.4                                                   | 52.3 | 78.5 | 6.55 | 13.1 | Tosoh AIA-CL Series                |
| CA 19-9                                            | U/ml | 314                                                    | 251  | 377  | 31.5 | 63.0 | Abbott Alinity XR                  |
|                                                    | U/ml | 314                                                    | 251  | 377  | 31.5 | 63.0 | Abbott Architect XR                |
|                                                    | U/ml | 582                                                    | 466  | 698  | 58.0 | 116  | Beckman Access/LXi725              |
|                                                    | U/ml | 523                                                    | 418  | 628  | 52.5 | 105  | Beckman Dxl 600/800                |
|                                                    | U/ml | 135                                                    | 108  | 162  | 13.5 | 27.0 | bioMerieux, VIDAS                  |
|                                                    | U/ml | 193                                                    | 154  | 232  | 19.5 | 39.0 | DiaSorin Liaison XL                |
|                                                    | U/ml | 188                                                    | 150  | 226  | 19.0 | 38.0 | Izotop RIA                         |
|                                                    | U/ml | 228                                                    | 182  | 274  | 23.0 | 46.0 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | U/ml | 132                                                    | 106  | 158  | 13.0 | 26.0 | Roche Cobas 4000/e411              |
|                                                    | U/ml | 147                                                    | 118  | 176  | 14.5 | 29.0 | Roche Cobas e402/e801              |
|                                                    | U/ml | 138                                                    | 110  | 166  | 14.0 | 28.0 | Roche Cobas e601/ 602              |
|                                                    | U/ml | 137                                                    | 110  | 164  | 13.5 | 27.0 | Roche Elecsys                      |
|                                                    | U/ml | 86.1                                                   | 68.9 | 103  | 8.45 | 16.9 | Shenzhen YHLO iFlash Series        |
|                                                    | U/ml | 202                                                    | 162  | 242  | 20.0 | 40.0 | Siemens Atellica IM                |
|                                                    | U/ml | 192                                                    | 154  | 230  | 19.0 | 38.0 | Siemens Centaur                    |
|                                                    | U/ml | 544                                                    | 435  | 653  | 54.5 | 109  | Siemens/DPC Immulite 2000/2500     |
|                                                    | U/ml | 47.9                                                   | 38.3 | 57.5 | 4.80 | 9.60 | Sysmex HISCL Series                |
|                                                    | U/ml | 130                                                    | 104  | 156  | 13.0 | 26.0 | TOSOH AIA Series                   |
|                                                    | U/ml | 143                                                    | 114  | 172  | 14.5 | 29.0 | Tosoh AIA-CL Series                |

| Method                                             |              |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |                                    |
|----------------------------------------------------|--------------|--------|--------------------------------------------------------|------|------|------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |              |        |                                                        |      |      |      |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |              |        | Range                                                  |      |      |      |                                    |
| Analyte                                            | Unit         | Target | Low                                                    | High | 1SD  | 2SD  | Method                             |
| Carbamazepine                                      | µg/ml        | 15.0   | 12.0                                                   | 18.0 | 1.50 | 3.00 | Abbott Architect (CMIA)            |
|                                                    | µmol/l       | 63.5   | 50.8                                                   | 76.2 | 6.35 | 12.7 |                                    |
|                                                    | µg/ml        | 13.0   | 10.4                                                   | 15.6 | 1.30 | 2.60 | Abbott Alinity (PETINA)            |
|                                                    | µmol/l       | 54.8   | 43.8                                                   | 65.8 | 5.50 | 11.0 |                                    |
|                                                    | µg/ml        | 13.1   | 10.5                                                   | 15.7 | 1.30 | 2.60 | Abbott Architect (PETINIA)         |
|                                                    | µmol/l       | 55.5   | 44.4                                                   | 66.6 | 5.55 | 11.1 |                                    |
|                                                    | µg/ml        | 15.2   | 12.2                                                   | 18.2 | 1.50 | 3.00 | Beckman AU Instruments             |
|                                                    | µmol/l       | 64.5   | 51.6                                                   | 77.4 | 6.45 | 12.9 |                                    |
|                                                    | µg/ml        | 15.3   | 12.2                                                   | 18.4 | 1.55 | 3.10 | EMIT                               |
|                                                    | µmol/l       | 64.8   | 51.8                                                   | 77.8 | 6.50 | 13.0 |                                    |
|                                                    | µg/ml        | 15.0   | 12.0                                                   | 18.0 | 1.50 | 3.00 | Roche Cobas 4000/c311              |
|                                                    | µmol/l       | 63.6   | 50.9                                                   | 76.3 | 6.35 | 12.7 |                                    |
|                                                    | µg/ml        | 15.4   | 12.3                                                   | 18.5 | 1.55 | 3.10 | Roche Cobas 6000/8000              |
|                                                    | µmol/l       | 65.2   | 52.2                                                   | 78.2 | 6.50 | 13.0 |                                    |
|                                                    | µg/ml        | 13.2   | 10.6                                                   | 15.8 | 1.30 | 2.60 | Siemens/DPC Immulite 2000/2500     |
|                                                    | µmol/l       | 55.7   | 44.6                                                   | 66.8 | 5.55 | 11.1 |                                    |
| CEA                                                | ng/ml = µg/l | 61.1   | 48.9                                                   | 73.3 | 6.10 | 12.2 | Abbott Alinity i                   |
|                                                    | ng/ml = µg/l | 62.4   | 49.9                                                   | 74.9 | 6.25 | 12.5 | Abbott Architect                   |
|                                                    | ng/ml = µg/l | 55.5   | 44.4                                                   | 66.6 | 5.55 | 11.1 | Beckman Access/LXi725              |
|                                                    | ng/ml = µg/l | 52.5   | 42.0                                                   | 63.0 | 5.25 | 10.5 | Beckman Dxl 600/800                |
|                                                    | ng/ml = µg/l | 52.8   | 42.2                                                   | 63.4 | 5.30 | 10.6 | Beckman/Immunotech IRMA            |
|                                                    | ng/ml = µg/l | 55.4   | 44.3                                                   | 66.5 | 5.55 | 11.1 | bioMerieux, VIDAS                  |
|                                                    | ng/ml = µg/l | 47.6   | 38.1                                                   | 57.1 | 4.75 | 9.50 | DiaSorin Liaison                   |
|                                                    | ng/ml = µg/l | 58.9   | 47.1                                                   | 70.7 | 5.90 | 11.8 | DiaSorin Liaison XL                |
|                                                    | ng/ml = µg/l | 59.9   | 47.9                                                   | 71.9 | 6.00 | 12.0 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | ng/ml = µg/l | 46.3   | 37.0                                                   | 55.6 | 4.65 | 9.30 | Roche Cobas 4000/e411              |
|                                                    | ng/ml = µg/l | 45.9   | 36.7                                                   | 55.1 | 4.60 | 9.20 | Roche Cobas e402/e801              |

| Method                                             |                 | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |                              |                                    |
|----------------------------------------------------|-----------------|--------------------------------------------------------|------|------|------|------------------------------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |      |      |      |                              |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |      |      |      |                              |                                    |
| Analyte                                            | Unit            | Target                                                 | Low  | High | 1SD  | 2SD                          | Method                             |
| CEA                                                | ng/ml =<br>µg/l | 45.3                                                   | 36.2 | 54.4 | 4.55 | 9.10                         | Roche Cobas e601/ 602              |
|                                                    | ng/ml =<br>µg/l | 46.6                                                   | 37.3 | 55.9 | 4.65 | 9.30                         | Roche Elecsys                      |
|                                                    | ng/ml =<br>µg/l | 51.5                                                   | 41.2 | 61.8 | 5.15 | 10.3                         | Shenzhen YHLO iFlash Series        |
|                                                    | ng/ml =<br>µg/l | 59.6                                                   | 47.7 | 71.5 | 5.95 | 11.9                         | Siemens Atellica IM                |
|                                                    | ng/ml =<br>µg/l | 57.2                                                   | 45.8 | 68.6 | 5.70 | 11.4                         | Siemens Centaur                    |
|                                                    | ng/ml =<br>µg/l | 80.5                                                   | 64.4 | 96.6 | 8.05 | 16.1                         | Siemens/DPC Immulite 2000/2500     |
|                                                    | ng/ml =<br>µg/l | 50.0                                                   | 40.0 | 60.0 | 5.00 | 10.0                         | Sysmex HISCL Series                |
|                                                    | ng/ml =<br>µg/l | 68.0                                                   | 54.4 | 81.6 | 6.80 | 13.6                         | Tosoh                              |
|                                                    | ng/ml =<br>µg/l | 73.4                                                   | 58.7 | 88.1 | 7.35 | 14.7                         | Tosoh AIA-CL Series                |
| Cortisol                                           | nmol/l          | 792                                                    | 594  | 990  | 99.0 | 198                          | Abbott Alinity i                   |
|                                                    | µg/dl           | 28.5                                                   | 21.4 | 35.6 | 3.55 | 7.10                         |                                    |
|                                                    | nmol/l          | 818                                                    | 614  | 1022 | 102  | 204                          | Abbott Architect                   |
|                                                    | µg/dl           | 29.4                                                   | 22.1 | 36.7 | 3.65 | 7.30                         |                                    |
|                                                    | nmol/l          | 936                                                    | 702  | 1170 | 117  | 234                          | Beckman Access/LXi725              |
|                                                    | µg/dl           | 33.7                                                   | 25.3 | 42.1 | 4.20 | 8.40                         |                                    |
|                                                    | nmol/l          | 866                                                    | 650  | 1082 | 108  | 216                          | Beckman Dxl 600/800                |
|                                                    | µg/dl           | 31.2                                                   | 23.4 | 39.0 | 3.90 | 7.80                         |                                    |
|                                                    | nmol/l          | 880                                                    | 660  | 1100 | 110  | 220                          | bioMerieux, VIDAS                  |
|                                                    | µg/dl           | 31.7                                                   | 23.8 | 39.6 | 3.95 | 7.90                         |                                    |
|                                                    | nmol/l          | 1154                                                   | 866  | 1442 | 144  | 288                          | DiaSorin Liaison XL                |
|                                                    | µg/dl           | 41.5                                                   | 31.1 | 51.9 | 5.20 | 10.4                         |                                    |
|                                                    | nmol/l          | 977                                                    | 733  | 1221 | 122  | 244                          | Immunotech RIA                     |
|                                                    | µg/dl           | 35.2                                                   | 26.4 | 44.0 | 4.40 | 8.80                         |                                    |
|                                                    | nmol/l          | 869                                                    | 652  | 1086 | 109  | 217                          | Ortho Vitros 3600/5600/ECi/XT 7600 |
| µg/dl                                              | 31.3            | 23.5                                                   | 39.1 | 3.90 | 7.80 |                              |                                    |
| nmol/l                                             | 903             | 677                                                    | 1129 | 113  | 226  | Roche Cobas 4000/e411        |                                    |
| µg/dl                                              | 32.5            | 24.4                                                   | 40.6 | 4.05 | 8.10 |                              |                                    |
| nmol/l                                             | 895             | 671                                                    | 1119 | 112  | 224  | Roche Cobas 4000/e411 Gen II |                                    |
| µg/dl                                              | 32.2            | 24.2                                                   | 40.2 | 4.00 | 8.00 |                              |                                    |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |       |                                |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|-------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |       |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |       |                                |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD   | Method                         |
| Cortisol                                           | nmol/l | 884                                                    | 663  | 1105 | 111   | 221   | Roche Cobas e402/e801          |
|                                                    | µg/dl  | 31.8                                                   | 23.9 | 39.7 | 3.95  | 7.90  |                                |
|                                                    | nmol/l | 878                                                    | 659  | 1097 | 110   | 219   | Roche Cobas e402/e801 Gen II   |
|                                                    | µg/dl  | 31.6                                                   | 23.7 | 39.5 | 3.95  | 7.90  |                                |
|                                                    | nmol/l | 903                                                    | 677  | 1129 | 113   | 226   | Roche Cobas e601/ 602          |
|                                                    | µg/dl  | 32.5                                                   | 24.4 | 40.6 | 4.05  | 8.10  |                                |
|                                                    | nmol/l | 899                                                    | 674  | 1124 | 113   | 225   | Roche Cobas e601/602 Gen II    |
|                                                    | µg/dl  | 32.4                                                   | 24.3 | 40.5 | 4.05  | 8.10  |                                |
|                                                    | nmol/l | 886                                                    | 665  | 1107 | 111   | 221   | Roche Elecsys                  |
|                                                    | µg/dl  | 31.9                                                   | 23.9 | 39.9 | 4.00  | 8.00  |                                |
|                                                    | nmol/l | 834                                                    | 626  | 1042 | 104   | 208   | Shenzhen YHLO iFlash Series    |
|                                                    | µg/dl  | 30.0                                                   | 22.5 | 37.5 | 3.75  | 7.50  |                                |
|                                                    | nmol/l | 1035                                                   | 776  | 1294 | 130   | 259   | Siemens Atellica IM            |
|                                                    | µg/dl  | 37.3                                                   | 28.0 | 46.6 | 4.65  | 9.30  |                                |
|                                                    | nmol/l | 1093                                                   | 820  | 1366 | 137   | 273   | Siemens Centaur                |
|                                                    | µg/dl  | 39.3                                                   | 29.5 | 49.1 | 4.90  | 9.80  |                                |
| DHEA-S                                             | nmol/l | 813                                                    | 610  | 1016 | 102   | 203   | Siemens/DPC Immulite 2000/2500 |
|                                                    | µg/dl  | 29.3                                                   | 22.0 | 36.6 | 3.65  | 7.30  |                                |
|                                                    | nmol/l | 982                                                    | 737  | 1227 | 123   | 245   | TOSOH AIA Series               |
|                                                    | µg/dl  | 35.4                                                   | 26.6 | 44.2 | 4.40  | 8.80  |                                |
|                                                    | nmol/l | 838                                                    | 629  | 1047 | 105   | 209   | Tosoh AIA-CL Series            |
|                                                    | µg/dl  | 30.2                                                   | 22.7 | 37.7 | 3.75  | 7.50  |                                |
|                                                    | µmol/l | 20.1                                                   | 16.1 | 24.1 | 2.00  | 4.00  | Abbott Alinity i               |
|                                                    | µmol/l | 19.8                                                   | 15.8 | 23.8 | 2.00  | 4.00  | Abbott Architect               |
|                                                    | µmol/l | 15.9                                                   | 12.7 | 19.1 | 1.60  | 3.20  | Beckman Access/LXi725          |
|                                                    | µmol/l | 15.8                                                   | 12.6 | 19.0 | 1.60  | 3.20  | Beckman Dxl 600/800            |
|                                                    | µmol/l | 18.2                                                   | 14.6 | 21.8 | 1.80  | 3.60  | DiaSorin Liaison XL            |
|                                                    | µmol/l | 23.9                                                   | 19.1 | 28.7 | 2.40  | 4.80  | Roche Cobas 4000/e411          |
|                                                    | µmol/l | 24.5                                                   | 19.6 | 29.4 | 2.45  | 4.90  | Roche Cobas e402/e801          |
|                                                    | µmol/l | 23.9                                                   | 19.1 | 28.7 | 2.40  | 4.80  | Roche Cobas e601/ 602          |
|                                                    | µmol/l | 23.9                                                   | 19.1 | 28.7 | 2.40  | 4.80  | Roche Elecsys                  |
|                                                    | µmol/l | 21.9                                                   | 17.5 | 26.3 | 2.20  | 4.40  | Shenzhen YHLO iFlash Series    |
| Digoxin                                            | µmol/l | 15.4                                                   | 12.3 | 18.5 | 1.55  | 3.10  | Siemens Atellica IM            |
|                                                    | µmol/l | 16.5                                                   | 13.2 | 19.8 | 1.65  | 3.30  | Siemens Centaur                |
|                                                    | µmol/l | 16.8                                                   | 13.4 | 20.2 | 1.70  | 3.40  | Siemens/DPC Immulite 2000/2500 |
|                                                    | µmol/l | 19.6                                                   | 15.7 | 23.5 | 1.95  | 3.90  | TOSOH AIA Series               |
|                                                    | µmol/l | 19.3                                                   | 15.4 | 23.2 | 1.95  | 3.90  | Tosoh AIA-CL Series            |
|                                                    | ng/ml  | 2.62                                                   | 2.10 | 3.14 | 0.260 | 0.520 | Abbott Architect (CMIA)        |
|                                                    | nmol/l | 3.36                                                   | 2.69 | 4.03 | 0.335 | 0.670 |                                |

| Method                                             |                 | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |       |                                  |
|----------------------------------------------------|-----------------|--------------------------------------------------------|------|------|-------|-------|----------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |      |      |       |       |                                  |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |      |      |       |       |                                  |
| Analyte                                            | Unit            | Target                                                 | Low  | High | 1SD   | 2SD   | Method                           |
| Digoxin                                            | ng/ml           | 3.35                                                   | 2.68 | 4.02 | 0.335 | 0.670 | Abbott Alinity (CMIA)            |
|                                                    | nmol/l          | 4.29                                                   | 3.43 | 5.15 | 0.430 | 0.860 |                                  |
|                                                    | ng/ml           | 3.36                                                   | 2.69 | 4.03 | 0.335 | 0.670 | Abbott Alinity (PETINA)          |
|                                                    | nmol/l          | 4.30                                                   | 3.44 | 5.16 | 0.430 | 0.860 |                                  |
|                                                    | ng/ml           | 3.46                                                   | 2.77 | 4.15 | 0.345 | 0.690 | Beckman AU Instruments           |
|                                                    | nmol/l          | 4.43                                                   | 3.54 | 5.32 | 0.445 | 0.890 |                                  |
|                                                    | ng/ml           | 3.23                                                   | 2.58 | 3.88 | 0.325 | 0.650 | Beckman Dxl 600/800              |
|                                                    | nmol/l          | 4.13                                                   | 3.30 | 4.96 | 0.415 | 0.830 |                                  |
|                                                    | ng/ml           | 3.34                                                   | 2.67 | 4.01 | 0.335 | 0.670 | Roche Cobas 4000/e411            |
|                                                    | nmol/l          | 4.28                                                   | 3.42 | 5.14 | 0.430 | 0.860 |                                  |
|                                                    | ng/ml           | 3.13                                                   | 2.50 | 3.76 | 0.315 | 0.630 | Roche Cobas C303/501/502/503/701 |
|                                                    | nmol/l          | 4.01                                                   | 3.21 | 4.81 | 0.400 | 0.800 |                                  |
|                                                    | ng/ml           | 3.19                                                   | 2.55 | 3.83 | 0.320 | 0.640 | Roche Cobas e402/e801            |
|                                                    | nmol/l          | 4.09                                                   | 3.27 | 4.91 | 0.410 | 0.820 |                                  |
|                                                    | ng/ml           | 3.32                                                   | 2.66 | 3.98 | 0.330 | 0.660 | Roche Cobas e601/602             |
|                                                    | nmol/l          | 4.25                                                   | 3.40 | 5.10 | 0.425 | 0.850 |                                  |
|                                                    | ng/ml           | 3.19                                                   | 2.55 | 3.83 | 0.320 | 0.640 | Siemens Atellica CH              |
|                                                    | nmol/l          | 4.08                                                   | 3.26 | 4.90 | 0.410 | 0.820 |                                  |
|                                                    | ng/ml           | 3.89                                                   | 3.11 | 4.67 | 0.390 | 0.780 | Siemens Atellica IM              |
|                                                    | nmol/l          | 4.98                                                   | 3.98 | 5.98 | 0.500 | 1.00  |                                  |
|                                                    | ng/ml           | 3.73                                                   | 2.98 | 4.48 | 0.375 | 0.750 | Siemens/DPC Immulite 2000/2500   |
|                                                    | nmol/l          | 4.77                                                   | 3.82 | 5.72 | 0.475 | 0.950 |                                  |
| Ferritin                                           | ng/ml =<br>µg/l | 308                                                    | 246  | 370  | 31.0  | 62.0  | Abbott Architect Chemilum        |
|                                                    | ng/ml =<br>µg/l | 308                                                    | 246  | 370  | 31.0  | 62.0  | Abbott Architect Quantia         |
|                                                    | ng/ml =<br>µg/l | 175                                                    | 140  | 210  | 17.5  | 35.0  | Beckman Access/LXi725            |
|                                                    | ng/ml =<br>µg/l | 209                                                    | 167  | 251  | 21.0  | 42.0  | Beckman AU Instruments           |
|                                                    | ng/ml =<br>µg/l | 174                                                    | 139  | 209  | 17.5  | 35.0  | Beckman Dxl 600/800              |
|                                                    | ng/ml =<br>µg/l | 203                                                    | 162  | 244  | 20.5  | 41.0  | bioMerieux, VIDAS                |
|                                                    | ng/ml =<br>µg/l | 280                                                    | 224  | 336  | 28.0  | 56.0  | DiaSorin Liaison XL              |
|                                                    | ng/ml =<br>µg/l | 270                                                    | 216  | 324  | 27.0  | 54.0  | Lifotronic eCL                   |

| Method                                             |                 | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |      |                                      |
|----------------------------------------------------|-----------------|--------------------------------------------------------|------|------|-------|------|--------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |      |      |       |      |                                      |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |      |      |       |      |                                      |
| Analyte                                            | Unit            | Target                                                 | Low  | High | 1SD   | 2SD  | Method                               |
| Ferritin                                           | ng/ml =<br>µg/l | 165                                                    | 132  | 198  | 16.5  | 33.0 | Ortho Vitros 3600/5600/ECi/XT/7600   |
|                                                    | ng/ml =<br>µg/l | 268                                                    | 214  | 322  | 27.0  | 54.0 | Roche Cobas 4000/c311                |
|                                                    | ng/ml =<br>µg/l | 249                                                    | 199  | 299  | 25.0  | 50.0 | Roche Cobas C303/501/502/503/701/702 |
|                                                    | ng/ml =<br>µg/l | 267                                                    | 214  | 320  | 26.5  | 53.0 | Roche Cobas e402/e801                |
|                                                    | ng/ml =<br>µg/l | 287                                                    | 230  | 344  | 28.5  | 57.0 | Roche Elecsys / Cobas e411           |
|                                                    | ng/ml =<br>µg/l | 282                                                    | 226  | 338  | 28.0  | 56.0 | Roche Modular E170 /Cobas e601/602   |
|                                                    | ng/ml =<br>µg/l | 225                                                    | 180  | 270  | 22.5  | 45.0 | Shenzhen YHLO iFlash Series          |
|                                                    | ng/ml =<br>µg/l | 200                                                    | 160  | 240  | 20.0  | 40.0 | Siemens Atellica IM                  |
|                                                    | ng/ml =<br>µg/l | 208                                                    | 166  | 250  | 21.0  | 42.0 | Siemens Centaur                      |
|                                                    | ng/ml =<br>µg/l | 263                                                    | 210  | 316  | 26.5  | 53.0 | Siemens Dimension                    |
|                                                    | ng/ml =<br>µg/l | 226                                                    | 181  | 271  | 22.5  | 45.0 | Siemens/DPC Immulite 2000/2500       |
|                                                    | ng/ml =<br>µg/l | 187                                                    | 150  | 224  | 18.5  | 37.0 | TOSOH AIA Series                     |
|                                                    | ng/ml =<br>µg/l | 209                                                    | 167  | 251  | 21.0  | 42.0 | Tosoh AIA-CL Series                  |
| Folate                                             | ng/ml           | 8.82                                                   | 6.70 | 10.9 | 1.04  | 2.08 | Abbott Alinity i                     |
|                                                    | nmol/l          | 20.0                                                   | 15.2 | 24.8 | 2.40  | 4.80 |                                      |
|                                                    | ng/ml           | 8.33                                                   | 6.33 | 10.3 | 0.985 | 1.97 | Abbott Architect                     |
|                                                    | nmol/l          | 18.9                                                   | 14.4 | 23.4 | 2.25  | 4.50 |                                      |
|                                                    | ng/ml           | 9.92                                                   | 7.54 | 12.3 | 1.19  | 2.38 | Beckman Access/LXi725                |
|                                                    | nmol/l          | 22.5                                                   | 17.1 | 27.9 | 2.70  | 5.40 |                                      |
|                                                    | ng/ml           | 9.66                                                   | 7.34 | 12.0 | 1.17  | 2.34 | Beckman Dxl 600/800 - A14208         |
|                                                    | nmol/l          | 21.9                                                   | 16.6 | 27.2 | 2.65  | 5.30 |                                      |
|                                                    | ng/ml           | 9.88                                                   | 7.51 | 12.3 | 1.21  | 2.42 | Beckman Dxl 600/800 - A98032         |
|                                                    | nmol/l          | 22.4                                                   | 17.0 | 27.8 | 2.70  | 5.40 |                                      |
|                                                    | ng/ml           | 5.56                                                   | 4.23 | 6.89 | 0.665 | 1.33 | Ortho Vitros 3600/5600/ECi/XT/7600   |
|                                                    | nmol/l          | 12.6                                                   | 9.58 | 15.6 | 1.50  | 3.00 |                                      |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |      |       |       |                               |
|----------------------------------------------------|--------|--------------------------------------------------------|-------|------|-------|-------|-------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |       |      |       |       |                               |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |       |      |       |       |                               |
| Analyte                                            | Unit   | Target                                                 | Low   | High | 1SD   | 2SD   | Method                        |
| Folate                                             | ng/ml  | 10.2                                                   | 7.75  | 12.7 | 1.25  | 2.50  | Roche e402/e801               |
|                                                    | nmol/l | 23.2                                                   | 17.6  | 28.8 | 2.80  | 5.60  |                               |
|                                                    | ng/ml  | 21.9                                                   | 16.6  | 27.2 | 2.65  | 5.30  | Shenzhen YHLO iFlash Series   |
|                                                    | nmol/l | 49.7                                                   | 37.8  | 61.6 | 5.95  | 11.9  |                               |
|                                                    | ng/ml  | 15.3                                                   | 11.6  | 19.0 | 1.85  | 3.70  | Siemens Atellica IM           |
|                                                    | nmol/l | 34.7                                                   | 26.4  | 43.0 | 4.15  | 8.30  |                               |
|                                                    | ng/ml  | 16.3                                                   | 12.4  | 20.2 | 1.95  | 3.90  | Siemens Centaur (enhanced)    |
|                                                    | nmol/l | 36.9                                                   | 28.0  | 45.8 | 4.45  | 8.90  |                               |
|                                                    | ng/ml  | 5.03                                                   | 3.82  | 6.24 | 0.605 | 1.21  | Siemens Dimension             |
|                                                    | nmol/l | 11.4                                                   | 8.66  | 14.1 | 1.35  | 2.70  |                               |
|                                                    | ng/ml  | 6.48                                                   | 4.92  | 8.04 | 0.780 | 1.56  | Siemens/DPC Immulite 2000     |
|                                                    | nmol/l | 14.7                                                   | 11.2  | 18.2 | 1.75  | 3.50  |                               |
|                                                    | ng/ml  | 26.9                                                   | 20.4  | 33.4 | 3.25  | 6.50  | Tosoh AIA-CL Series           |
|                                                    | nmol/l | 60.9                                                   | 46.3  | 75.5 | 7.30  | 14.6  |                               |
| Free T3                                            | ng/dl  | 1.74                                                   | 1.31  | 2.17 | 0.215 | 0.430 | Abbott Alinity, 2 point cal   |
|                                                    | pg/ml  | 17.4                                                   | 13.1  | 21.7 | 2.15  | 4.30  |                               |
|                                                    | pmol/l | 26.8                                                   | 20.1  | 33.5 | 3.35  | 6.70  |                               |
|                                                    | ng/dl  | 1.73                                                   | 1.30  | 2.16 | 0.215 | 0.430 | Abbott Alinity, 6 point cal   |
|                                                    | pg/ml  | 17.3                                                   | 13.0  | 21.6 | 2.15  | 4.30  |                               |
|                                                    | pmol/l | 26.6                                                   | 20.0  | 33.2 | 3.30  | 6.60  |                               |
|                                                    | ng/dl  | 1.72                                                   | 1.29  | 2.15 | 0.215 | 0.430 | Abbott Architect, 2 point cal |
|                                                    | pg/ml  | 17.2                                                   | 12.9  | 21.5 | 2.15  | 4.30  |                               |
|                                                    | pmol/l | 26.4                                                   | 19.8  | 33.0 | 3.30  | 6.60  |                               |
|                                                    | ng/dl  | 1.70                                                   | 1.28  | 2.12 | 0.210 | 0.420 | Abbott Architect, 6 point cal |
|                                                    | pg/ml  | 17.0                                                   | 12.8  | 21.2 | 2.10  | 4.20  |                               |
|                                                    | pmol/l | 26.1                                                   | 19.6  | 32.6 | 3.25  | 6.50  |                               |
|                                                    | ng/dl  | 1.24                                                   | 0.930 | 1.55 | 0.155 | 0.310 | Beckman Access/LXi725         |
|                                                    | pg/ml  | 12.4                                                   | 9.30  | 15.5 | 1.55  | 3.10  |                               |
|                                                    | pmol/l | 19.1                                                   | 14.3  | 23.9 | 2.40  | 4.80  |                               |
|                                                    | ng/dl  | 1.14                                                   | 0.855 | 1.43 | 0.145 | 0.290 | Beckman Dxl 600/800           |
|                                                    | pg/ml  | 11.4                                                   | 8.55  | 14.3 | 1.45  | 2.90  |                               |
|                                                    | pmol/l | 17.5                                                   | 13.1  | 21.9 | 2.20  | 4.40  |                               |
|                                                    | ng/dl  | 1.53                                                   | 1.15  | 1.91 | 0.190 | 0.380 | BioMerieux VIDAS              |
|                                                    | pg/ml  | 15.4                                                   | 11.6  | 19.2 | 1.90  | 3.80  |                               |
|                                                    | pmol/l | 23.6                                                   | 17.7  | 29.5 | 2.95  | 5.90  |                               |
|                                                    | ng/dl  | 2.09                                                   | 1.57  | 2.61 | 0.260 | 0.520 | DiaSorin Liaison XL           |
|                                                    | pg/ml  | 20.9                                                   | 15.7  | 26.1 | 2.60  | 5.20  |                               |
|                                                    | pmol/l | 32.1                                                   | 24.1  | 40.1 | 4.00  | 8.00  |                               |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |      |       |       |                                    |
|----------------------------------------------------|--------|--------------------------------------------------------|-------|------|-------|-------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |       |      |       |       |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |       |      |       |       |                                    |
| Analyte                                            | Unit   | Target                                                 | Low   | High | 1SD   | 2SD   | Method                             |
| Free T3                                            | ng/dl  | 1.85                                                   | 1.39  | 2.31 | 0.230 | 0.460 | Fujirebio Lumipulse G Series       |
|                                                    | pg/ml  | 18.5                                                   | 13.9  | 23.1 | 2.30  | 4.60  |                                    |
|                                                    | pmol/l | 28.4                                                   | 21.3  | 35.5 | 3.55  | 7.10  |                                    |
|                                                    | ng/dl  | 1.61                                                   | 1.21  | 2.01 | 0.200 | 0.400 | Lifotronic eCL                     |
|                                                    | pg/ml  | 16.1                                                   | 12.1  | 20.1 | 2.00  | 4.00  |                                    |
|                                                    | pmol/l | 24.7                                                   | 18.5  | 30.9 | 3.10  | 6.20  |                                    |
|                                                    | ng/dl  | 2.28                                                   | 1.71  | 2.85 | 0.285 | 0.570 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | pg/ml  | 22.8                                                   | 17.1  | 28.5 | 2.85  | 5.70  |                                    |
|                                                    | pmol/l | 35.0                                                   | 26.3  | 43.7 | 4.35  | 8.70  |                                    |
|                                                    | ng/dl  | 1.77                                                   | 1.33  | 2.21 | 0.220 | 0.440 | Roche Cobas 4000/e411              |
|                                                    | pg/ml  | 17.8                                                   | 13.4  | 22.2 | 2.20  | 4.40  |                                    |
|                                                    | pmol/l | 27.3                                                   | 20.5  | 34.1 | 3.40  | 6.80  |                                    |
|                                                    | ng/dl  | 1.76                                                   | 1.32  | 2.20 | 0.220 | 0.440 | Roche Cobas e402/e801              |
|                                                    | pg/ml  | 17.6                                                   | 13.2  | 22.0 | 2.20  | 4.40  |                                    |
|                                                    | pmol/l | 27.1                                                   | 20.3  | 33.9 | 3.40  | 6.80  |                                    |
|                                                    | ng/dl  | 1.82                                                   | 1.37  | 2.27 | 0.225 | 0.450 | Roche Cobas e601/ 602              |
|                                                    | pg/ml  | 18.2                                                   | 13.7  | 22.7 | 2.25  | 4.50  |                                    |
|                                                    | pmol/l | 28.0                                                   | 21.0  | 35.0 | 3.50  | 7.00  |                                    |
|                                                    | ng/dl  | 1.79                                                   | 1.34  | 2.24 | 0.225 | 0.450 | Roche Elecsys                      |
|                                                    | pg/ml  | 17.9                                                   | 13.4  | 22.4 | 2.25  | 4.50  |                                    |
|                                                    | pmol/l | 27.5                                                   | 20.6  | 34.4 | 3.45  | 6.90  |                                    |
|                                                    | ng/dl  | 1.31                                                   | 0.983 | 1.64 | 0.165 | 0.330 | Shenzhen YHLO iFlash Series        |
|                                                    | pg/ml  | 13.1                                                   | 9.83  | 16.4 | 1.65  | 3.30  |                                    |
|                                                    | pmol/l | 20.1                                                   | 15.1  | 25.1 | 2.50  | 5.00  |                                    |
|                                                    | ng/dl  | 1.57                                                   | 1.18  | 1.96 | 0.195 | 0.390 | Siemens Atellica IM                |
|                                                    | pg/ml  | 15.8                                                   | 11.9  | 19.7 | 1.95  | 3.90  |                                    |
|                                                    | pmol/l | 24.2                                                   | 18.2  | 30.2 | 3.00  | 6.00  |                                    |
|                                                    | ng/dl  | 1.45                                                   | 1.09  | 1.81 | 0.180 | 0.360 | Siemens Centaur                    |
|                                                    | pg/ml  | 14.5                                                   | 10.9  | 18.1 | 1.80  | 3.60  |                                    |
|                                                    | pmol/l | 22.3                                                   | 16.7  | 27.9 | 2.80  | 5.60  |                                    |
|                                                    | ng/dl  | 2.00                                                   | 1.50  | 2.50 | 0.250 | 0.500 | Siemens Dimension Exl LOCI         |
|                                                    | pg/ml  | 20.0                                                   | 15.0  | 25.0 | 2.50  | 5.00  |                                    |
|                                                    | pmol/l | 30.7                                                   | 23.0  | 38.4 | 3.85  | 7.70  |                                    |
|                                                    | ng/dl  | 1.02                                                   | 0.765 | 1.28 | 0.130 | 0.260 | Siemens/DPC Immulite 2000/2500     |
|                                                    | pg/ml  | 10.2                                                   | 7.65  | 12.8 | 1.30  | 2.60  |                                    |
|                                                    | pmol/l | 15.7                                                   | 11.8  | 19.6 | 1.95  | 3.90  |                                    |
|                                                    | ng/dl  | 1.63                                                   | 1.22  | 2.04 | 0.205 | 0.410 | Sysex HISCL Series                 |
|                                                    | pg/ml  | 16.3                                                   | 12.2  | 20.4 | 2.05  | 4.10  |                                    |
|                                                    | pmol/l | 25.1                                                   | 18.8  | 31.4 | 3.15  | 6.30  |                                    |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |       |       |                |                              |
|----------------------------------------------------|--------|--------------------------------------------------------|------|-------|-------|----------------|------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |       |       |                |                              |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |       |       |                |                              |
| Analyte                                            | Unit   | Target                                                 | Low  | High  | 1SD   | 2SD            | Method                       |
| Free T3                                            | ng/dl  | 2.48                                                   | 1.86 | 3.10  | 0.310 | 0.620          | TOSOH AIA Series             |
|                                                    | pg/ml  | 24.8                                                   | 18.6 | 31.0  | 3.10  | 6.20           |                              |
|                                                    | pmol/l | 38.1                                                   | 28.6 | 47.6  | 4.75  | 9.50           |                              |
|                                                    | ng/dl  | 1.79                                                   | 1.34 | 2.24  | 0.225 | 0.450          | Tosoh AIA-CL Series          |
|                                                    | pg/ml  | 17.9                                                   | 13.4 | 22.4  | 2.25  | 4.50           |                              |
|                                                    | pmol/l | 27.5                                                   | 20.6 | 34.4  | 3.45  | 6.90           |                              |
| Free T4                                            | ng/dl  | 3.57                                                   | 2.68 | 4.46  | 0.445 | 0.890          | Abbott Alinity i             |
|                                                    | pg/ml  | 35.7                                                   | 26.8 | 44.6  | 4.45  | 8.90           |                              |
|                                                    | pmol/l | 45.8                                                   | 34.4 | 57.2  | 5.70  | 11.4           |                              |
|                                                    | ng/dl  | 3.80                                                   | 2.85 | 4.75  | 0.475 | 0.950          | Abbott Architect             |
|                                                    | pg/ml  | 38.0                                                   | 28.5 | 47.5  | 4.75  | 9.50           |                              |
|                                                    | pmol/l | 48.7                                                   | 36.5 | 60.9  | 6.10  | 12.2           |                              |
|                                                    | ng/dl  | 3.90                                                   | 2.93 | 4.87  | 0.485 | 0.970          | Beckman Access/LXi725        |
|                                                    | pg/ml  | 39.0                                                   | 29.3 | 48.7  | 4.85  | 9.70           |                              |
|                                                    | pmol/l | 50.0                                                   | 37.5 | 62.5  | 6.25  | 12.5           |                              |
|                                                    | ng/dl  | 4.14                                                   | 3.11 | 5.17  | 0.515 | 1.03           | Beckman Dxl 600/800          |
|                                                    | pg/ml  | 41.4                                                   | 31.1 | 51.7  | 5.15  | 10.3           |                              |
|                                                    | pmol/l | 53.1                                                   | 39.8 | 66.4  | 6.65  | 13.3           |                              |
|                                                    | ng/dl  | 5.98                                                   | 4.49 | 7.47  | 0.745 | 1.49           | bioMerieux, VIDAS-FT4N Kit   |
|                                                    | pg/ml  | 59.8                                                   | 44.9 | 74.7  | 7.45  | 14.9           |                              |
|                                                    | pmol/l | 76.7                                                   | 57.5 | 95.9  | 9.60  | 19.2           |                              |
|                                                    | ng/dl  | 5.82                                                   | 4.37 | 7.27  | 0.725 | 1.45           | bioMerieux, VIDIA            |
|                                                    | pg/ml  | 58.2                                                   | 43.7 | 72.7  | 7.25  | 14.5           |                              |
|                                                    | pmol/l | 74.6                                                   | 56.0 | 93.2  | 9.30  | 18.6           |                              |
|                                                    | ng/dl  | 7.13                                                   | 5.35 | 8.91  | 0.890 | 1.78           | DiaSorin Liaison             |
|                                                    | pg/ml  | 71.3                                                   | 53.5 | 89.1  | 8.90  | 17.8           |                              |
|                                                    | pmol/l | 91.4                                                   | 68.6 | 114   | 11.3  | 22.6           |                              |
|                                                    | ng/dl  | 8.27                                                   | 6.20 | 10.3  | 1.02  | 2.03           | DiaSorin Liaison XL          |
|                                                    | pg/ml  | 82.7                                                   | 62.0 | 103   | 10.2  | 20.3           |                              |
|                                                    | pmol/l | 106                                                    | 79.5 | 133   | 13.5  | 27.0           |                              |
|                                                    | ng/dl  | 4.80                                                   | 3.60 | 6.00  | 0.600 | 1.20           | Fujirebio Lumipulse G Series |
|                                                    | pg/ml  | 48.0                                                   | 36.0 | 60.0  | 6.00  | 12.0           |                              |
|                                                    | pmol/l | 61.6                                                   | 46.2 | 77.0  | 7.70  | 15.4           |                              |
|                                                    | ng/dl  | 3.42                                                   | 2.57 | 4.27  | 0.425 | 0.850          | Immunotech RIA               |
|                                                    | pg/ml  | 34.2                                                   | 25.7 | 42.7  | 4.25  | 8.50           |                              |
|                                                    | pmol/l | 43.8                                                   | 32.9 | 54.7  | 5.45  | 10.9           |                              |
| ng/dl                                              | 2.86   | 2.15                                                   | 3.57 | 0.355 | 0.710 | Lifotronic eCL |                              |
| pg/ml                                              | 28.6   | 21.5                                                   | 35.7 | 3.55  | 7.10  |                |                              |
| pmol/l                                             | 36.7   | 27.5                                                   | 45.9 | 4.60  | 9.20  |                |                              |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |       |                                    |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|-------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |       |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |       |                                    |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD   | Method                             |
| Free T4                                            | ng/dl  | 3.54                                                   | 2.66 | 4.42 | 0.440 | 0.880 | Maccura I Series                   |
|                                                    | pg/ml  | 35.4                                                   | 26.6 | 44.2 | 4.40  | 8.80  |                                    |
|                                                    | pmol/l | 45.4                                                   | 34.1 | 56.7 | 5.65  | 11.3  |                                    |
|                                                    | ng/dl  | 7.00                                                   | 5.25 | 8.75 | 0.875 | 1.75  | Ortho Vitros 3600/5600/ECi/XT/7600 |
|                                                    | pg/ml  | 70.0                                                   | 52.5 | 87.5 | 8.75  | 17.5  |                                    |
|                                                    | pmol/l | 89.7                                                   | 67.3 | 112  | 11.2  | 22.3  |                                    |
|                                                    | ng/dl  | 5.12                                                   | 3.84 | 6.40 | 0.640 | 1.28  | Roche Cobas 4000/e411              |
|                                                    | pg/ml  | 51.2                                                   | 38.4 | 64.0 | 6.40  | 12.8  |                                    |
|                                                    | pmol/l | 65.7                                                   | 49.3 | 82.1 | 8.20  | 16.4  |                                    |
|                                                    | ng/dl  | 5.42                                                   | 4.07 | 6.77 | 0.675 | 1.35  | Roche Cobas e402/e801              |
|                                                    | pg/ml  | 54.2                                                   | 40.7 | 67.7 | 6.75  | 13.5  |                                    |
|                                                    | pmol/l | 69.5                                                   | 52.1 | 86.9 | 8.70  | 17.4  |                                    |
|                                                    | ng/dl  | 5.19                                                   | 3.89 | 6.49 | 0.650 | 1.30  | Roche Cobas e601/ 602              |
|                                                    | pg/ml  | 51.9                                                   | 38.9 | 64.9 | 6.50  | 13.0  |                                    |
|                                                    | pmol/l | 66.6                                                   | 50.0 | 83.2 | 8.30  | 16.6  |                                    |
|                                                    | ng/dl  | 5.38                                                   | 4.04 | 6.72 | 0.670 | 1.34  | Roche Elecsys                      |
|                                                    | pg/ml  | 53.8                                                   | 40.4 | 67.2 | 6.70  | 13.4  |                                    |
|                                                    | pmol/l | 69.0                                                   | 51.8 | 86.2 | 8.60  | 17.2  |                                    |
|                                                    | ng/dl  | 3.43                                                   | 2.57 | 4.29 | 0.430 | 0.860 | Shenzhen YHLO iFlash Series        |
|                                                    | pg/ml  | 34.3                                                   | 25.7 | 42.9 | 4.30  | 8.60  |                                    |
|                                                    | pmol/l | 44.0                                                   | 33.0 | 55.0 | 5.50  | 11.0  |                                    |
|                                                    | ng/dl  | 4.33                                                   | 3.25 | 5.41 | 0.540 | 1.08  | Siemens Atellica IM                |
|                                                    | pg/ml  | 43.3                                                   | 32.5 | 54.1 | 5.40  | 10.8  |                                    |
|                                                    | pmol/l | 55.5                                                   | 41.6 | 69.4 | 6.95  | 13.9  |                                    |
|                                                    | ng/dl  | 4.13                                                   | 3.10 | 5.16 | 0.515 | 1.03  | Siemens Centaur                    |
|                                                    | pg/ml  | 41.3                                                   | 31.0 | 51.6 | 5.15  | 10.3  |                                    |
|                                                    | pmol/l | 53.0                                                   | 39.8 | 66.2 | 6.60  | 13.2  |                                    |
|                                                    | ng/dl  | 6.26                                                   | 4.70 | 7.82 | 0.780 | 1.56  | Siemens Dimension Exl LOCI         |
|                                                    | pg/ml  | 62.6                                                   | 47.0 | 78.2 | 7.80  | 15.6  |                                    |
|                                                    | pmol/l | 80.2                                                   | 60.2 | 100  | 9.90  | 19.8  |                                    |
|                                                    | ng/dl  | 5.29                                                   | 3.97 | 6.61 | 0.660 | 1.32  | Siemens/DPC Immulite 1000          |
|                                                    | pg/ml  | 52.9                                                   | 39.7 | 66.1 | 6.60  | 13.2  |                                    |
|                                                    | pmol/l | 67.8                                                   | 50.9 | 84.7 | 8.45  | 16.9  |                                    |
|                                                    | ng/dl  | 5.67                                                   | 4.25 | 7.09 | 0.710 | 1.42  | Siemens/DPC Immulite 2000/2500     |
|                                                    | pg/ml  | 56.7                                                   | 42.5 | 70.9 | 7.10  | 14.2  |                                    |
|                                                    | pmol/l | 72.7                                                   | 54.5 | 90.9 | 9.10  | 18.2  |                                    |
|                                                    | ng/dl  | 6.03                                                   | 4.52 | 7.54 | 0.755 | 1.51  | Sysmex HISCL Series                |
|                                                    | pg/ml  | 60.3                                                   | 45.2 | 75.4 | 7.55  | 15.1  |                                    |
|                                                    | pmol/l | 77.3                                                   | 58.0 | 96.6 | 9.65  | 19.3  |                                    |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |       |                                    |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|-------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |       |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |       |                                    |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD   | Method                             |
| Free T4                                            | ng/dl  | 5.58                                                   | 4.19 | 6.97 | 0.695 | 1.39  | TOSOH AIA Series                   |
|                                                    | pg/ml  | 55.8                                                   | 41.9 | 69.7 | 6.95  | 13.9  |                                    |
|                                                    | pmol/l | 71.5                                                   | 53.6 | 89.4 | 8.95  | 17.9  |                                    |
|                                                    | ng/dl  | 4.99                                                   | 3.74 | 6.24 | 0.625 | 1.25  | Tosoh AIA-CL Series                |
|                                                    | pg/ml  | 49.9                                                   | 37.4 | 62.4 | 6.25  | 12.5  |                                    |
|                                                    | pmol/l | 64.0                                                   | 48.0 | 80.0 | 8.00  | 16.0  |                                    |
| FSH                                                | mU/ml  | 50.5                                                   | 40.4 | 60.6 | 5.05  | 10.1  | Abbott Alinity i                   |
|                                                    | mU/ml  | 51.6                                                   | 41.3 | 61.9 | 5.15  | 10.3  | Abbott Architect                   |
|                                                    | mU/ml  | 59.7                                                   | 47.8 | 71.6 | 5.95  | 11.9  | Beckman Access/LXi725              |
|                                                    | mU/ml  | 61.9                                                   | 49.5 | 74.3 | 6.20  | 12.4  | Beckman Dxl 600/800                |
|                                                    | mU/ml  | 68.8                                                   | 55.0 | 82.6 | 6.90  | 13.8  | bioMerieux, VIDAS                  |
|                                                    | mU/ml  | 75.9                                                   | 60.7 | 91.1 | 7.60  | 15.2  | DiaSorin Liaison                   |
|                                                    | mU/ml  | 85.9                                                   | 68.7 | 103  | 8.55  | 17.1  | DiaSorin Liaison XL                |
|                                                    | mU/ml  | 53.7                                                   | 43.0 | 64.4 | 5.35  | 10.7  | Lifotronic eCL                     |
|                                                    | mU/ml  | 53.1                                                   | 42.5 | 63.7 | 5.30  | 10.6  | Maccura I Series                   |
|                                                    | mU/ml  | 44.3                                                   | 35.4 | 53.2 | 4.45  | 8.90  | Ortho Vitros 3600/5600/ECi/XT/7600 |
|                                                    | mU/ml  | 56.0                                                   | 44.8 | 67.2 | 5.60  | 11.2  | Roche Cobas 4000/e411              |
|                                                    | mU/ml  | 52.8                                                   | 42.2 | 63.4 | 5.30  | 10.6  | Roche Cobas e402/e801              |
|                                                    | mU/ml  | 52.6                                                   | 42.1 | 63.1 | 5.25  | 10.5  | Roche Cobas e601/602               |
|                                                    | mU/ml  | 54.2                                                   | 43.4 | 65.0 | 5.40  | 10.8  | Roche Elecsys                      |
|                                                    | mU/ml  | 51.1                                                   | 40.9 | 61.3 | 5.10  | 10.2  | Shenzhen YHLO iFlash Series        |
|                                                    | mU/ml  | 71.4                                                   | 57.1 | 85.7 | 7.15  | 14.3  | Siemens Atellica IM                |
|                                                    | mU/ml  | 71.4                                                   | 57.1 | 85.7 | 7.15  | 14.3  | Siemens Centaur                    |
|                                                    | mU/ml  | 54.3                                                   | 43.4 | 65.2 | 5.45  | 10.9  | Siemens/DPC Immulite 2000/2500     |
|                                                    | mU/ml  | 59.3                                                   | 47.4 | 71.2 | 5.95  | 11.9  | TOSOH AIA Series                   |
|                                                    | mU/ml  | 51.6                                                   | 41.3 | 61.9 | 5.15  | 10.3  | Tosoh AIA-CL Series                |
| Gentamicin                                         | µg/ml  | 2.69                                                   | 2.15 | 3.23 | 0.270 | 0.540 | Abbott Architect (CMIA)            |
|                                                    | µmol/l | 5.63                                                   | 4.50 | 6.76 | 0.565 | 1.13  |                                    |
|                                                    | µg/ml  | 3.11                                                   | 2.49 | 3.73 | 0.310 | 0.620 | Abbott Alinity (PETINA)            |
|                                                    | µmol/l | 6.51                                                   | 5.21 | 7.81 | 0.650 | 1.30  |                                    |
|                                                    | µg/ml  | 2.64                                                   | 2.11 | 3.17 | 0.265 | 0.530 | Cobas c501/502/701/702/311 CEDIA   |
|                                                    | µmol/l | 5.52                                                   | 4.42 | 6.62 | 0.550 | 1.10  |                                    |
|                                                    | µg/ml  | 2.44                                                   | 1.95 | 2.93 | 0.245 | 0.490 | Cobas c501/502/701/702/311 KIMS    |
|                                                    | µmol/l | 5.11                                                   | 4.09 | 6.13 | 0.510 | 1.02  |                                    |
|                                                    | µg/ml  | 2.97                                                   | 2.38 | 3.56 | 0.295 | 0.590 | EMIT                               |
|                                                    | µmol/l | 6.22                                                   | 4.98 | 7.46 | 0.620 | 1.24  |                                    |
|                                                    | µg/ml  | 2.76                                                   | 2.21 | 3.31 | 0.275 | 0.550 | Siemens Atellica CH                |
|                                                    | µmol/l | 5.77                                                   | 4.62 | 6.92 | 0.575 | 1.15  |                                    |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                |
|----------------------------------------------------|---------------|--------------------------------------------------------|------|------|------|------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |      |      |      |      |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |      |      |      |      |                                |
| Analyte                                            | Unit          | Target                                                 | Low  | High | 1SD  | 2SD  | Method                         |
| Growth Hormone (GH)                                | ng/ml         | 10.3                                                   | 8.24 | 12.4 | 1.05 | 2.10 | Beckman Access/LXi725          |
|                                                    | µU/ml         | 30.9                                                   | 24.7 | 37.1 | 3.10 | 6.20 |                                |
|                                                    | ng/ml         | 10.6                                                   | 8.48 | 12.7 | 1.05 | 2.10 | Beckman Dxl 600/800            |
|                                                    | µU/ml         | 31.9                                                   | 25.5 | 38.3 | 3.20 | 6.40 |                                |
|                                                    | ng/ml         | 12.9                                                   | 10.3 | 15.5 | 1.30 | 2.60 | Beckman/Immunotech IRMA        |
|                                                    | µU/ml         | 38.6                                                   | 30.9 | 46.3 | 3.85 | 7.70 |                                |
|                                                    | ng/ml         | 12.3                                                   | 9.84 | 14.8 | 1.25 | 2.50 | DiaSorin Liaison XL            |
|                                                    | µU/ml         | 36.8                                                   | 29.4 | 44.2 | 3.70 | 7.40 |                                |
|                                                    | ng/ml         | 13.3                                                   | 10.6 | 16.0 | 1.35 | 2.70 | Roche Cobas 4000/e411          |
|                                                    | µU/ml         | 40.0                                                   | 32.0 | 48.0 | 4.00 | 8.00 |                                |
|                                                    | ng/ml         | 12.5                                                   | 10.0 | 15.0 | 1.25 | 2.50 | Roche Cobas e402/e801          |
|                                                    | µU/ml         | 37.6                                                   | 30.1 | 45.1 | 3.75 | 7.50 |                                |
|                                                    | ng/ml         | 12.7                                                   | 10.2 | 15.2 | 1.25 | 2.50 | Roche Cobas e601/ 602          |
|                                                    | µU/ml         | 38.2                                                   | 30.6 | 45.8 | 3.80 | 7.60 |                                |
|                                                    | ng/ml         | 12.3                                                   | 9.84 | 14.8 | 1.25 | 2.50 | Roche Elecsys                  |
|                                                    | µU/ml         | 36.8                                                   | 29.4 | 44.2 | 3.70 | 7.40 |                                |
| Immunoglobulin E                                   | ng/ml         | 13.3                                                   | 10.6 | 16.0 | 1.35 | 2.70 | Siemens/DPC Immulite 2000/2500 |
|                                                    | µU/ml         | 40.0                                                   | 32.0 | 48.0 | 4.00 | 8.00 |                                |
|                                                    | ng/ml         | 11.8                                                   | 9.44 | 14.2 | 1.20 | 2.40 | Tosoh AIA-CL Series            |
|                                                    | µU/ml         | 35.5                                                   | 28.4 | 42.6 | 3.55 | 7.10 |                                |
|                                                    | KIU/I = IU/ml | 427                                                    | 342  | 512  | 42.5 | 85.0 | Abbott Alinity                 |
|                                                    | KIU/I = IU/ml | 442                                                    | 354  | 530  | 44.0 | 88.0 | Abbott Architect               |
|                                                    | KIU/I = IU/ml | 497                                                    | 398  | 596  | 49.5 | 99.0 | Beckman AU analysers           |
|                                                    | KIU/I = IU/ml | 461                                                    | 369  | 553  | 46.0 | 92.0 | bioMerieux, VIDAS              |
|                                                    | KIU/I = IU/ml | 515                                                    | 412  | 618  | 51.5 | 103  | Boditech Med Inc i-CHROMA      |
|                                                    | KIU/I = IU/ml | 470                                                    | 376  | 564  | 47.0 | 94.0 | Phadia Immunocap instruments   |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                |
|----------------------------------------------------|---------------|--------------------------------------------------------|------|------|------|------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |      |      |      |      |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |      |      |      |      |                                |
| Analyte                                            | Unit          | Target                                                 | Low  | High | 1SD  | 2SD  | Method                         |
| Immunoglobulin E                                   | KIU/I = IU/ml | 538                                                    | 430  | 646  | 54.0 | 108  | Roche Cobas 4000/e411          |
|                                                    | KIU/I = IU/ml | 503                                                    | 402  | 604  | 50.5 | 101  | Roche Cobas e402/e801          |
|                                                    | KIU/I = IU/ml | 512                                                    | 410  | 614  | 51.0 | 102  | Roche Cobas e601/ 602          |
|                                                    | KIU/I = IU/ml | 511                                                    | 409  | 613  | 51.0 | 102  | Roche Elecsys                  |
|                                                    | KIU/I = IU/ml | 556                                                    | 445  | 667  | 55.5 | 111  | Siemens Atellica IM            |
|                                                    | KIU/I = IU/ml | 513                                                    | 410  | 616  | 51.5 | 103  | Siemens Centaur                |
|                                                    | KIU/I = IU/ml | 541                                                    | 433  | 649  | 54.0 | 108  | Siemens/DPC Immulite 1000      |
|                                                    | KIU/I = IU/ml | 470                                                    | 376  | 564  | 47.0 | 94.0 | Siemens/DPC Immulite 2000/2500 |
|                                                    | KIU/I = IU/ml | 457                                                    | 366  | 548  | 45.5 | 91.0 | Tosoh                          |
|                                                    | KIU/I = IU/ml | 453                                                    | 362  | 544  | 45.5 | 91.0 | Tosoh AIA-CL Series            |
| Insulin                                            | mU/I          | 19.4                                                   | 14.6 | 24.2 | 2.40 | 4.80 | Abbott Alinity i               |
|                                                    | µU/ml         | 19.4                                                   | 14.6 | 24.2 | 2.40 | 4.80 |                                |
|                                                    | mU/I          | 20.5                                                   | 15.4 | 25.6 | 2.55 | 5.10 | Abbott Architect               |
|                                                    | µU/ml         | 20.5                                                   | 15.4 | 25.6 | 2.55 | 5.10 |                                |
|                                                    | mU/I          | 24.3                                                   | 18.2 | 30.4 | 3.05 | 6.10 | Beckman Access/LXi725          |
|                                                    | µU/ml         | 24.3                                                   | 18.2 | 30.4 | 3.05 | 6.10 |                                |
|                                                    | mU/I          | 23.9                                                   | 17.9 | 29.9 | 3.00 | 6.00 | Beckman Dxl 600/800            |
| µU/ml                                              | 23.9          | 17.9                                                   | 29.9 | 3.00 | 6.00 |      |                                |

| Method                                             |       | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                    |
|----------------------------------------------------|-------|--------------------------------------------------------|------|------|------|------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |       |                                                        |      |      |      |      |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |       | Range                                                  |      |      |      |      |                                    |
| Analyte                                            | Unit  | Target                                                 | Low  | High | 1SD  | 2SD  | Method                             |
| Insulin                                            | mU/l  | 32.1                                                   | 24.1 | 40.1 | 4.00 | 8.00 | DiaSorin Liaison                   |
|                                                    | µU/ml | 32.1                                                   | 24.1 | 40.1 | 4.00 | 8.00 |                                    |
|                                                    | mU/l  | 33.6                                                   | 25.2 | 42.0 | 4.20 | 8.40 | DiaSorin Liaison XL                |
|                                                    | µU/ml | 33.6                                                   | 25.2 | 42.0 | 4.20 | 8.40 |                                    |
|                                                    | mU/l  | 27.6                                                   | 20.7 | 34.5 | 3.45 | 6.90 | Lifotronic eCL                     |
|                                                    | µU/ml | 27.6                                                   | 20.7 | 34.5 | 3.45 | 6.90 |                                    |
|                                                    | mU/l  | 24.6                                                   | 18.5 | 30.7 | 3.05 | 6.10 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | µU/ml | 24.6                                                   | 18.5 | 30.7 | 3.05 | 6.10 |                                    |
|                                                    | mU/l  | 28.1                                                   | 21.1 | 35.1 | 3.50 | 7.00 | Roche Cobas 4000/e411              |
|                                                    | µU/ml | 28.1                                                   | 21.1 | 35.1 | 3.50 | 7.00 |                                    |
|                                                    | mU/l  | 28.2                                                   | 21.2 | 35.2 | 3.50 | 7.00 | Roche Cobas 6000/8000              |
|                                                    | µU/ml | 28.2                                                   | 21.2 | 35.2 | 3.50 | 7.00 |                                    |
|                                                    | mU/l  | 28.2                                                   | 21.2 | 35.2 | 3.50 | 7.00 | Roche Elecsys                      |
|                                                    | µU/ml | 28.2                                                   | 21.2 | 35.2 | 3.50 | 7.00 |                                    |
|                                                    | mU/l  | 23.0                                                   | 18.4 | 27.6 | 2.30 | 4.60 | Shenzhen YHLO iFlash Series        |
|                                                    | µU/ml | 23.0                                                   | 18.4 | 27.6 | 2.30 | 4.60 |                                    |
|                                                    | mU/l  | 27.4                                                   | 20.6 | 34.2 | 3.40 | 6.80 | Siemens Atellica IM                |
|                                                    | µU/ml | 27.4                                                   | 20.6 | 34.2 | 3.40 | 6.80 |                                    |
|                                                    | mU/l  | 28.1                                                   | 21.1 | 35.1 | 3.50 | 7.00 | Siemens Centaur XP/Classic         |
|                                                    | µU/ml | 28.1                                                   | 21.1 | 35.1 | 3.50 | 7.00 |                                    |
|                                                    | mU/l  | 13.8                                                   | 10.4 | 17.2 | 1.70 | 3.40 | Siemens/DPC Immulite 2000          |
|                                                    | µU/ml | 13.8                                                   | 10.4 | 17.2 | 1.70 | 3.40 |                                    |
|                                                    | mU/l  | 27.1                                                   | 21.7 | 32.5 | 2.70 | 5.40 | TOSOH AIA Series                   |
|                                                    | µU/ml | 27.1                                                   | 21.7 | 32.5 | 2.70 | 5.40 |                                    |
|                                                    | mU/l  | 27.1                                                   | 21.7 | 32.5 | 2.70 | 5.40 | Tosoh AIA-CL Series                |
|                                                    | µU/ml | 27.1                                                   | 21.7 | 32.5 | 2.70 | 5.40 |                                    |
| Luteinising Hormone (LH)                           | mU/ml | 43.5                                                   | 34.8 | 52.2 | 4.35 | 8.70 | Abbott Alinity i                   |
|                                                    | mU/ml | 43.1                                                   | 34.5 | 51.7 | 4.30 | 8.60 | Abbott Architect                   |
|                                                    | mU/ml | 46.7                                                   | 37.4 | 56.0 | 4.65 | 9.30 | Beckman Access/LXi725              |
|                                                    | mU/ml | 47.3                                                   | 37.8 | 56.8 | 4.75 | 9.50 | Beckman Dxl 600/800                |
|                                                    | mU/ml | 50.9                                                   | 40.7 | 61.1 | 5.10 | 10.2 | bioMerieux, VIDAS                  |
|                                                    | mU/ml | 81.4                                                   | 65.1 | 97.7 | 8.15 | 16.3 | DiaSorin Liaison XL                |
|                                                    | mU/ml | 77.2                                                   | 61.8 | 92.6 | 7.70 | 15.4 | Finecare                           |
|                                                    | mU/ml | 58.8                                                   | 47.0 | 70.6 | 5.90 | 11.8 | Maccura I Series                   |
|                                                    | mU/ml | 55.9                                                   | 44.7 | 67.1 | 5.60 | 11.2 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | mU/ml | 58.3                                                   | 46.6 | 70.0 | 5.85 | 11.7 | Roche Cobas 4000/e411              |
|                                                    | mU/ml | 55.2                                                   | 44.2 | 66.2 | 5.50 | 11.0 | Roche Cobas e402/e801              |
|                                                    | mU/ml | 56.5                                                   | 45.2 | 67.8 | 5.65 | 11.3 | Roche Cobas e601/ 602              |
|                                                    | mU/ml | 57.9                                                   | 46.3 | 69.5 | 5.80 | 11.6 | Roche Elecsys                      |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                        |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|------|------|----------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |      |      |                                        |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |      |      |                                        |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD  | 2SD  | Method                                 |
| Luteinising Hormone (LH)                           | mU/ml  | 52.9                                                   | 42.3 | 63.5 | 5.30 | 10.6 | Siemens Atellica IM                    |
|                                                    | mU/ml  | 48.9                                                   | 39.1 | 58.7 | 4.90 | 9.80 | Siemens Centaur                        |
|                                                    | mU/ml  | 64.2                                                   | 51.4 | 77.0 | 6.40 | 12.8 | Siemens/DPC Immulite 2000              |
|                                                    | mU/ml  | 53.3                                                   | 42.6 | 64.0 | 5.35 | 10.7 | TOSOH AIA Series                       |
|                                                    | mU/ml  | 48.8                                                   | 39.0 | 58.6 | 4.90 | 9.80 | Tosoh AIA-CL Series                    |
| Oestradiol                                         | pg/ml  | 336                                                    | 269  | 403  | 33.5 | 67.0 | Abbott Alinity i                       |
|                                                    | pmol/l | 1234                                                   | 987  | 1481 | 124  | 247  |                                        |
|                                                    | pg/ml  | 344                                                    | 275  | 413  | 34.5 | 69.0 | Abbott Architect                       |
|                                                    | pmol/l | 1264                                                   | 1011 | 1517 | 127  | 253  |                                        |
|                                                    | pg/ml  | 463                                                    | 370  | 556  | 46.5 | 93.0 | Beckman Access/LXi725                  |
|                                                    | pmol/l | 1703                                                   | 1362 | 2044 | 171  | 341  |                                        |
|                                                    | pg/ml  | 478                                                    | 382  | 574  | 48.0 | 96.0 | Beckman Access/LXi725 Sensitive B84493 |
|                                                    | pmol/l | 1756                                                   | 1405 | 2107 | 176  | 351  |                                        |
|                                                    | pg/ml  | 444                                                    | 355  | 533  | 44.5 | 89.0 | Beckman Dxl 600/800                    |
|                                                    | pmol/l | 1632                                                   | 1306 | 1958 | 163  | 326  |                                        |
|                                                    | pg/ml  | 450                                                    | 360  | 540  | 45.0 | 90.0 | Beckman Dxl 600/800 Sensitive B84493   |
|                                                    | pmol/l | 1653                                                   | 1322 | 1984 | 166  | 331  |                                        |
|                                                    | pg/ml  | 988                                                    | 790  | 1186 | 99.0 | 198  | bioMerieux, VIDAS                      |
|                                                    | pmol/l | 3632                                                   | 2906 | 4358 | 363  | 726  |                                        |
|                                                    | pg/ml  | 319                                                    | 255  | 383  | 32.0 | 64.0 | DiaSorin Liaison XL                    |
|                                                    | pmol/l | 1172                                                   | 938  | 1406 | 117  | 234  |                                        |
|                                                    | pg/ml  | 859                                                    | 687  | 1031 | 86.0 | 172  | Ortho Vitros 3600/5600/ECi/XT 7600     |
|                                                    | pmol/l | 3158                                                   | 2526 | 3790 | 316  | 632  |                                        |
|                                                    | pg/ml  | 407                                                    | 326  | 488  | 40.5 | 81.0 | Roche Cobas 4000/e411 (Estradiol II)   |
|                                                    | pmol/l | 1498                                                   | 1198 | 1798 | 150  | 300  |                                        |
|                                                    | pg/ml  | 411                                                    | 329  | 493  | 41.0 | 82.0 | Roche Cobas 4000/e411 (Estradiol III)  |
|                                                    | pmol/l | 1510                                                   | 1208 | 1812 | 151  | 302  |                                        |
|                                                    | pg/ml  | 427                                                    | 342  | 512  | 42.5 | 85.0 | Roche Cobas e402/e801 (Estradiol III)  |
|                                                    | pmol/l | 1569                                                   | 1255 | 1883 | 157  | 314  |                                        |
|                                                    | pg/ml  | 412                                                    | 330  | 494  | 41.0 | 82.0 | Roche Cobas e601/ 602 (Estradiol III)  |
|                                                    | pmol/l | 1513                                                   | 1210 | 1816 | 152  | 303  |                                        |
|                                                    | pg/ml  | 412                                                    | 330  | 494  | 41.0 | 82.0 | Roche Cobas e601/ 602 Estradiol II     |
|                                                    | pmol/l | 1514                                                   | 1211 | 1817 | 152  | 303  |                                        |
|                                                    | pg/ml  | 416                                                    | 333  | 499  | 41.5 | 83.0 | Roche Elecsys (Estradiol II)           |
|                                                    | pmol/l | 1528                                                   | 1222 | 1834 | 153  | 306  |                                        |
|                                                    | pg/ml  | 411                                                    | 329  | 493  | 41.0 | 82.0 | Roche Elecsys (Estradiol III)          |
|                                                    | pmol/l | 1510                                                   | 1208 | 1812 | 151  | 302  |                                        |
|                                                    | pg/ml  | 567                                                    | 454  | 680  | 56.5 | 113  | Shenzhen YHLO iFlash Series            |
|                                                    | pmol/l | 2083                                                   | 1666 | 2500 | 209  | 417  |                                        |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |       |       |       |                                      |
|----------------------------------------------------|--------|--------------------------------------------------------|-------|-------|-------|-------|--------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |       |       |       |       |                                      |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |       |       |       |       |                                      |
| Analyte                                            | Unit   | Target                                                 | Low   | High  | 1SD   | 2SD   | Method                               |
| Oestradiol                                         | pg/ml  | 788                                                    | 630   | 946   | 79.0  | 158   | Siemens Atellica IM                  |
|                                                    | pmol/l | 2897                                                   | 2318  | 3476  | 290   | 579   |                                      |
|                                                    | pg/ml  | 751                                                    | 601   | 901   | 75.0  | 150   | Siemens Centaur                      |
|                                                    | pmol/l | 2762                                                   | 2210  | 3314  | 276   | 552   |                                      |
|                                                    | pg/ml  | 771                                                    | 617   | 925   | 77.0  | 154   | Siemens Centaur XP/XPT (eE2)         |
|                                                    | pmol/l | 2836                                                   | 2269  | 3403  | 284   | 567   |                                      |
|                                                    | pg/ml  | 749                                                    | 599   | 899   | 75.0  | 150   | Siemens/DPC Immulite 2000/2500       |
|                                                    | pmol/l | 2754                                                   | 2203  | 3305  | 276   | 551   |                                      |
|                                                    | pg/ml  | 609                                                    | 487   | 731   | 61.0  | 122   | Tosoh AIA Series (E2)                |
|                                                    | pmol/l | 2240                                                   | 1792  | 2688  | 224   | 448   |                                      |
|                                                    | pg/ml  | 619                                                    | 495   | 743   | 62.0  | 124   | Tosoh AIA Series (iE2-hsE2)          |
|                                                    | pmol/l | 2277                                                   | 1822  | 2732  | 228   | 455   |                                      |
|                                                    | pg/ml  | 468                                                    | 374   | 562   | 47.0  | 94.0  | Tosoh AIA-CL Series (E2)             |
|                                                    | pmol/l | 1721                                                   | 1377  | 2065  | 172   | 344   |                                      |
| Paracetamol                                        | mg/l   | 73.0                                                   | 58.4  | 87.6  | 7.30  | 14.6  | Abbott Alinity                       |
|                                                    | mmol/l | 0.482                                                  | 0.386 | 0.578 | 0.048 | 0.096 |                                      |
|                                                    | mg/l   | 71.5                                                   | 57.2  | 85.8  | 7.15  | 14.3  | Beckman AU Instruments               |
|                                                    | mmol/l | 0.472                                                  | 0.378 | 0.566 | 0.047 | 0.094 |                                      |
|                                                    | mg/l   | 73.6                                                   | 58.9  | 88.3  | 7.35  | 14.7  | EMIT                                 |
|                                                    | mmol/l | 0.486                                                  | 0.389 | 0.583 | 0.049 | 0.097 |                                      |
|                                                    | mg/l   | 69.4                                                   | 55.5  | 83.3  | 6.95  | 13.9  | Roche Cobas C303/501/502/503/701/702 |
|                                                    | mmol/l | 0.458                                                  | 0.366 | 0.550 | 0.046 | 0.092 |                                      |
|                                                    | mg/l   | 69.2                                                   | 55.4  | 83.0  | 6.90  | 13.8  | Siemens Atellica CH                  |
|                                                    | mmol/l | 0.457                                                  | 0.366 | 0.548 | 0.046 | 0.091 |                                      |
| Phenobarbital                                      | µg/ml  | 26.2                                                   | 21.0  | 31.4  | 2.60  | 5.20  | Abbott Architect (CMIA)              |
|                                                    | µmol/l | 113                                                    | 90.4  | 136   | 11.5  | 23.0  |                                      |
|                                                    | µg/ml  | 23.4                                                   | 18.7  | 28.1  | 2.35  | 4.70  | Abbott Alinity (PETINA)              |
|                                                    | µmol/l | 101                                                    | 80.8  | 121   | 10.0  | 20.0  |                                      |
|                                                    | µg/ml  | 24.1                                                   | 19.3  | 28.9  | 2.40  | 4.80  | Beckman AU Instruments               |
|                                                    | µmol/l | 104                                                    | 83.2  | 125   | 10.5  | 21.0  |                                      |
|                                                    | µg/ml  | 25.3                                                   | 20.2  | 30.4  | 2.55  | 5.10  | EMIT                                 |
|                                                    | µmol/l | 109                                                    | 87.2  | 131   | 11.0  | 22.0  |                                      |
|                                                    | µg/ml  | 24.1                                                   | 19.3  | 28.9  | 2.40  | 4.80  | Microgenics CEDIA assay              |
|                                                    | µmol/l | 104                                                    | 83.2  | 125   | 10.5  | 21.0  |                                      |
|                                                    | µg/ml  | 26.0                                                   | 20.8  | 31.2  | 2.60  | 5.20  | Roche Cobas C303/501/502/503/701     |
|                                                    | µmol/l | 112                                                    | 89.6  | 134   | 11.0  | 22.0  |                                      |
|                                                    | µg/ml  | 25.1                                                   | 20.1  | 30.1  | 2.50  | 5.00  | Siemens Atellica CH                  |
|                                                    | µmol/l | 108                                                    | 86.4  | 130   | 11.0  | 22.0  |                                      |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |                     |                                       |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|------|---------------------|---------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |      |                     |                                       |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |      |                     |                                       |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD  | 2SD                 | Method                                |
| Phenobarbital                                      | µg/ml  | 26.0                                                   | 20.8 | 31.2 | 2.60 | 5.20                | Siemens/DPC Immulite 2000/2500        |
|                                                    | µmol/l | 112                                                    | 89.6 | 134  | 11.0 | 22.0                |                                       |
| Phenytoin                                          | µg/ml  | 22.9                                                   | 18.3 | 27.5 | 2.30 | 4.60                | Abbott Alinity                        |
|                                                    | µmol/l | 90.6                                                   | 72.5 | 109  | 9.20 | 18.4                |                                       |
|                                                    | µg/ml  | 21.0                                                   | 16.8 | 25.2 | 2.10 | 4.20                | Abbott Architect                      |
|                                                    | µmol/l | 83.1                                                   | 66.5 | 99.7 | 8.30 | 16.6                |                                       |
|                                                    | µg/ml  | 21.6                                                   | 17.3 | 25.9 | 2.15 | 4.30                | Beckman AU Instruments                |
|                                                    | µmol/l | 85.5                                                   | 68.4 | 103  | 8.75 | 17.5                |                                       |
|                                                    | µg/ml  | 20.8                                                   | 16.6 | 25.0 | 2.10 | 4.20                | EMIT                                  |
|                                                    | µmol/l | 82.5                                                   | 66.0 | 99.0 | 8.25 | 16.5                |                                       |
|                                                    | µg/ml  | 20.9                                                   | 16.7 | 25.1 | 2.10 | 4.20                | Roche Cobas 6000/8000                 |
|                                                    | µmol/l | 82.8                                                   | 66.2 | 99.4 | 8.30 | 16.6                |                                       |
|                                                    | µg/ml  | 23.1                                                   | 18.5 | 27.7 | 2.30 | 4.60                | Siemens Atellica CH                   |
|                                                    | µmol/l | 91.5                                                   | 73.2 | 110  | 9.25 | 18.5                |                                       |
|                                                    | µg/ml  | 22.2                                                   | 17.8 | 26.6 | 2.20 | 4.40                | Siemens Dimension                     |
|                                                    | µmol/l | 87.8                                                   | 70.2 | 105  | 8.60 | 17.2                |                                       |
|                                                    | µg/ml  | 22.4                                                   | 17.9 | 26.9 | 2.25 | 4.50                | Siemens/DPC Immulite 2000/2500        |
|                                                    | µmol/l | 88.9                                                   | 71.1 | 107  | 9.05 | 18.1                |                                       |
|                                                    | µg/ml  | 21.4                                                   | 17.1 | 25.7 | 2.15 | 4.30                | Vitros                                |
|                                                    | µmol/l | 84.9                                                   | 67.9 | 102  | 8.55 | 17.1                |                                       |
| Progesterone                                       | ng/ml  | 24.3                                                   | 19.4 | 29.2 | 2.45 | 4.90                | Abbott Alinity i                      |
|                                                    | nmol/l | 77.6                                                   | 62.1 | 93.1 | 7.75 | 15.5                |                                       |
|                                                    | ng/ml  | 25.6                                                   | 20.5 | 30.7 | 2.55 | 5.10                | Abbott Architect                      |
|                                                    | nmol/l | 81.8                                                   | 65.4 | 98.2 | 8.20 | 16.4                |                                       |
|                                                    | ng/ml  | 29.7                                                   | 23.8 | 35.6 | 2.95 | 5.90                | Beckman Access Prog. Cal 33555        |
|                                                    | nmol/l | 95.0                                                   | 76.0 | 114  | 9.50 | 19.0                |                                       |
|                                                    | ng/ml  | 28.6                                                   | 22.9 | 34.3 | 2.85 | 5.70                | Beckman Access Prog.DE Cal. A80773    |
|                                                    | nmol/l | 91.5                                                   | 73.2 | 110  | 9.25 | 18.5                |                                       |
|                                                    | ng/ml  | 29.6                                                   | 23.7 | 35.5 | 2.95 | 5.90                | Beckman DXI Prog. Cal 33555           |
|                                                    | nmol/l | 94.7                                                   | 75.8 | 114  | 9.65 | 19.3                |                                       |
|                                                    | ng/ml  | 29.1                                                   | 23.3 | 34.9 | 2.90 | 5.80                | Beckman DXI Prog.DE Cal. A80773       |
|                                                    | nmol/l | 92.9                                                   | 74.3 | 112  | 9.55 | 19.1                |                                       |
|                                                    | ng/ml  | 33.8                                                   | 27.0 | 40.6 | 3.40 | 6.80                | bioMerieux, VIDAS (<= lot 1009311690) |
|                                                    | nmol/l | 108                                                    | 86.4 | 130  | 11.0 | 22.0                |                                       |
|                                                    | ng/ml  | 35.4                                                   | 28.3 | 42.5 | 3.55 | 7.10                | bioMerieux, VIDAS (>= lot 1009323920) |
|                                                    | nmol/l | 113                                                    | 90.4 | 136  | 11.5 | 23.0                |                                       |
| ng/ml                                              | 24.9   | 19.9                                                   | 29.9 | 2.50 | 5.00 | DiaSorin Liaison XL |                                       |
| nmol/l                                             | 79.5   | 63.6                                                   | 95.4 | 7.95 | 15.9 |                     |                                       |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                    |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|------|------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |      |      |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |      |      |                                    |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD  | 2SD  | Method                             |
| Progesterone                                       | ng/ml  | 32.6                                                   | 26.1 | 39.1 | 3.25 | 6.50 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | nmol/l | 104                                                    | 83.2 | 125  | 10.5 | 21.0 |                                    |
|                                                    | ng/ml  | 29.1                                                   | 23.3 | 34.9 | 2.90 | 5.80 | Roche Cobas 4000/e411 (Prog. II)   |
|                                                    | nmol/l | 93.0                                                   | 74.4 | 112  | 9.50 | 19.0 |                                    |
|                                                    | ng/ml  | 28.8                                                   | 23.0 | 34.6 | 2.90 | 5.80 | Roche Cobas 4000/e411 (Prog. III)  |
|                                                    | nmol/l | 92.0                                                   | 73.6 | 110  | 9.00 | 18.0 |                                    |
|                                                    | ng/ml  | 28.9                                                   | 23.1 | 34.7 | 2.90 | 5.80 | Roche Cobas e402/e801 (Prog III)   |
|                                                    | nmol/l | 92.4                                                   | 73.9 | 111  | 9.30 | 18.6 |                                    |
|                                                    | ng/ml  | 29.9                                                   | 23.9 | 35.9 | 3.00 | 6.00 | Roche Cobas e601/ 602 (Prog. II)   |
|                                                    | nmol/l | 95.5                                                   | 76.4 | 115  | 9.75 | 19.5 |                                    |
|                                                    | ng/ml  | 30.5                                                   | 24.4 | 36.6 | 3.05 | 6.10 | Roche Cobas e601/ 602 (Prog. III)  |
|                                                    | nmol/l | 97.6                                                   | 78.1 | 117  | 9.70 | 19.4 |                                    |
|                                                    | ng/ml  | 28.4                                                   | 22.7 | 34.1 | 2.85 | 5.70 | Roche Elecsys (Prog. II)           |
|                                                    | nmol/l | 90.7                                                   | 72.6 | 109  | 9.15 | 18.3 |                                    |
|                                                    | ng/ml  | 29.1                                                   | 23.3 | 34.9 | 2.90 | 5.80 | Roche Elecsys (Prog. III)          |
|                                                    | nmol/l | 93.1                                                   | 74.5 | 112  | 9.45 | 18.9 |                                    |
|                                                    | ng/ml  | 36.6                                                   | 29.3 | 43.9 | 3.65 | 7.30 | Shenzhen YHLO iFlash Series        |
|                                                    | nmol/l | 117                                                    | 93.6 | 140  | 11.5 | 23.0 |                                    |
|                                                    | ng/ml  | 22.7                                                   | 18.2 | 27.2 | 2.25 | 4.50 | Siemens Atellica IM                |
|                                                    | nmol/l | 72.4                                                   | 57.9 | 86.9 | 7.25 | 14.5 |                                    |
|                                                    | ng/ml  | 21.8                                                   | 17.4 | 26.2 | 2.20 | 4.40 | Siemens Centaur                    |
|                                                    | nmol/l | 69.6                                                   | 55.7 | 83.5 | 6.95 | 13.9 |                                    |
|                                                    | ng/ml  | 24.1                                                   | 19.3 | 28.9 | 2.40 | 4.80 | Siemens/DPC Immulite 2000/2500     |
|                                                    | nmol/l | 76.9                                                   | 61.5 | 92.3 | 7.70 | 15.4 |                                    |
|                                                    | ng/ml  | 33.2                                                   | 26.6 | 39.8 | 3.30 | 6.60 | TOSOH AIA Series                   |
|                                                    | nmol/l | 106                                                    | 84.8 | 127  | 10.5 | 21.0 |                                    |
|                                                    | ng/ml  | 30.6                                                   | 24.5 | 36.7 | 3.05 | 6.10 | Tosoh AIA-CL Series                |
|                                                    | nmol/l | 97.9                                                   | 78.3 | 118  | 10.1 | 20.1 |                                    |
| Prolactin                                          | µIU/mL | 1155                                                   | 924  | 1386 | 116  | 231  | Abbott Alinity i                   |
|                                                    | µIU/mL | 1122                                                   | 898  | 1346 | 112  | 224  | Abbott Architect                   |
|                                                    | µIU/mL | 856                                                    | 685  | 1027 | 85.5 | 171  | Beckman Access/LXi725              |
|                                                    | µIU/mL | 822                                                    | 658  | 986  | 82.0 | 164  | Beckman Dxl 600/800                |
|                                                    | µIU/mL | 1091                                                   | 873  | 1309 | 109  | 218  | bioMerieux, VIDAS                  |
|                                                    | µIU/mL | 1045                                                   | 836  | 1254 | 105  | 209  | DiaSorin Liaison XL                |
|                                                    | µIU/mL | 985                                                    | 788  | 1182 | 98.5 | 197  | Immunotech IRMA                    |
|                                                    | µIU/mL | 917                                                    | 734  | 1100 | 91.5 | 183  | Lifotronic eCL                     |
|                                                    | µIU/mL | 1209                                                   | 967  | 1451 | 121  | 242  | Maccura I Series                   |
|                                                    | µIU/mL | 776                                                    | 621  | 931  | 77.5 | 155  | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | µIU/mL | 1179                                                   | 943  | 1415 | 118  | 236  | Roche Cobas 4000/e411              |

| Method                                             |              | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                          |
|----------------------------------------------------|--------------|--------------------------------------------------------|------|------|------|------|------------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |              |                                                        |      |      |      |      |                                          |
| Size: 12 x 5 ml / 4 x 5 ml                         |              | Range                                                  |      |      |      |      |                                          |
| Analyte                                            | Unit         | Target                                                 | Low  | High | 1SD  | 2SD  | Method                                   |
| Prolactin                                          | µIU/mL       | 1106                                                   | 885  | 1327 | 111  | 221  | Roche Cobas e402/e801 PRL II             |
|                                                    | µIU/mL       | 1150                                                   | 920  | 1380 | 115  | 230  | Roche Cobas e601/ 602                    |
|                                                    | µIU/mL       | 1136                                                   | 909  | 1363 | 114  | 227  | Roche Elecsys                            |
|                                                    | µIU/mL       | 1149                                                   | 919  | 1379 | 115  | 230  | Roche Elecsys/E170/Cobas e601/602 PRLII  |
|                                                    | µIU/mL       | 1251                                                   | 1001 | 1501 | 125  | 250  | Shenzhen YHLO iFlash Series              |
|                                                    | µIU/mL       | 693                                                    | 554  | 832  | 69.5 | 139  | Siemens Atellica IM                      |
|                                                    | µIU/mL       | 700                                                    | 560  | 840  | 70.0 | 140  | Siemens Centaur                          |
|                                                    | µIU/mL       | 798                                                    | 638  | 958  | 80.0 | 160  | Siemens/DPC Immulite 2000/2500           |
|                                                    | µIU/mL       | 896                                                    | 717  | 1075 | 89.5 | 179  | TOSOH AIA Series                         |
|                                                    | µIU/mL       | 1149                                                   | 919  | 1379 | 115  | 230  | Tosoh AIA-CL Series                      |
| PSA Free                                           | ng/ml = µg/l | 24.2                                                   | 18.2 | 30.2 | 3.00 | 6.00 | Abbott Alinity i                         |
|                                                    | ng/ml = µg/l | 25.2                                                   | 18.9 | 31.5 | 3.15 | 6.30 | Abbott Architect                         |
|                                                    | ng/ml = µg/l | 24.3                                                   | 18.2 | 30.4 | 3.05 | 6.10 | Beckman Access standardised to Hybritech |
|                                                    | ng/ml = µg/l | 24.8                                                   | 18.6 | 31.0 | 3.10 | 6.20 | Beckman DXI standardised to Hybritech    |
|                                                    | ng/ml = µg/l | 19.7                                                   | 14.8 | 24.6 | 2.45 | 4.90 | DiaSorin Liaison XL                      |
|                                                    | ng/ml = µg/l | 30.0                                                   | 22.5 | 37.5 | 3.75 | 7.50 | Finecare                                 |
|                                                    | ng/ml = µg/l | 15.9                                                   | 11.9 | 19.9 | 2.00 | 4.00 | Immunotech IRMA                          |
|                                                    | ng/ml = µg/l | 15.9                                                   | 11.9 | 19.9 | 2.00 | 4.00 | Ortho Vitros 3600/5600/ECi               |
|                                                    | ng/ml = µg/l | 16.6                                                   | 12.5 | 20.7 | 2.05 | 4.10 | Ortho Vitros 3600/5600/ECi PSA II/XT7600 |
|                                                    | ng/ml = µg/l | 20.1                                                   | 15.1 | 25.1 | 2.50 | 5.00 | Roche Cobas 4000/e411                    |
|                                                    | ng/ml = µg/l | 18.6                                                   | 14.0 | 23.2 | 2.30 | 4.60 | Roche Cobas e402/e801                    |
|                                                    | ng/ml = µg/l | 19.5                                                   | 14.6 | 24.4 | 2.45 | 4.90 | Roche Cobas e601/602                     |
|                                                    | ng/ml = µg/l | 18.8                                                   | 14.1 | 23.5 | 2.35 | 4.70 | Roche Elecsys                            |
|                                                    | ng/ml = µg/l | 27.7                                                   | 20.8 | 34.6 | 3.45 | 6.90 | Shenzhen YHLO iFlash Series              |

| Method                                             |                 | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                          |
|----------------------------------------------------|-----------------|--------------------------------------------------------|------|------|------|------|------------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |      |      |      |      |                                          |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |      |      |      |      |                                          |
| Analyte                                            | Unit            | Target                                                 | Low  | High | 1SD  | 2SD  | Method                                   |
| PSA Free                                           | ng/ml =<br>µg/l | 23.7                                                   | 17.8 | 29.6 | 2.95 | 5.90 | Siemens Atellica IM                      |
|                                                    | ng/ml =<br>µg/l | 22.9                                                   | 17.2 | 28.6 | 2.85 | 5.70 | Siemens Centaur                          |
|                                                    | ng/ml =<br>µg/l | 19.5                                                   | 14.6 | 24.4 | 2.45 | 4.90 | Siemens/DPC Immulite 2000/2500           |
|                                                    | ng/ml =<br>µg/l | 19.2                                                   | 14.4 | 24.0 | 2.40 | 4.80 | TOSOH AIA Series                         |
|                                                    | ng/ml =<br>µg/l | 25.1                                                   | 18.8 | 31.4 | 3.15 | 6.30 | Tosoh AIA-CL Series                      |
| PSA Total                                          | ng/ml =<br>µg/l | 19.3                                                   | 14.5 | 24.1 | 2.40 | 4.80 | Abbott Alinity i                         |
|                                                    | ng/ml =<br>µg/l | 19.6                                                   | 14.7 | 24.5 | 2.45 | 4.90 | Abbott Architect                         |
|                                                    | ng/ml =<br>µg/l | 31.5                                                   | 23.6 | 39.4 | 3.95 | 7.90 | Beckman Access standard to WHO IRP96/670 |
|                                                    | ng/ml =<br>µg/l | 31.3                                                   | 23.5 | 39.1 | 3.90 | 7.80 | Beckman Access standardised to Hybritech |
|                                                    | ng/ml =<br>µg/l | 23.2                                                   | 17.4 | 29.0 | 2.90 | 5.80 | Beckman DXI standard to WHO IRP96/670    |
|                                                    | ng/ml =<br>µg/l | 30.7                                                   | 23.0 | 38.4 | 3.85 | 7.70 | Beckman DXI standardised to Hybritech    |
|                                                    | ng/ml =<br>µg/l | 24.0                                                   | 18.0 | 30.0 | 3.00 | 6.00 | bioMerieux, VIDAS                        |
|                                                    | ng/ml =<br>µg/l | 25.2                                                   | 18.9 | 31.5 | 3.15 | 6.30 | bioMerieux, Vidas TPSA                   |
|                                                    | ng/ml =<br>µg/l | 23.9                                                   | 17.9 | 29.9 | 3.00 | 6.00 | DiaSorin Liaison                         |
|                                                    | ng/ml =<br>µg/l | 26.1                                                   | 19.6 | 32.6 | 3.25 | 6.50 | DiaSorin Liaison XL                      |
|                                                    | ng/ml =<br>µg/l | 19.7                                                   | 14.8 | 24.6 | 2.45 | 4.90 | Immunotech IRMA                          |
|                                                    | ng/ml =<br>µg/l | 25.8                                                   | 19.4 | 32.2 | 3.20 | 6.40 | Ortho Vitros 3600/5600/ECi               |
|                                                    | ng/ml =<br>µg/l | 25.9                                                   | 19.4 | 32.4 | 3.25 | 6.50 | Ortho Vitros 3600/5600/ECi PSA II/XT7600 |
|                                                    | ng/ml =<br>µg/l | 28.0                                                   | 21.0 | 35.0 | 3.50 | 7.00 | Roche Cobas 4000/e411                    |

| Method                                             |                 |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |       |       |                                       |
|----------------------------------------------------|-----------------|--------|--------------------------------------------------------|------|-------|-------|---------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |        |                                                        |      |       |       |                                       |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 |        | Range                                                  |      |       |       |                                       |
| Analyte                                            | Unit            | Target | Low                                                    | High | 1SD   | 2SD   | Method                                |
| PSA Total                                          | ng/ml =<br>µg/l | 26.1   | 19.6                                                   | 32.6 | 3.25  | 6.50  | Roche Cobas e402/e801                 |
|                                                    | ng/ml =<br>µg/l | 26.8   | 20.1                                                   | 33.5 | 3.35  | 6.70  | Roche Cobas e601/602                  |
|                                                    | ng/ml =<br>µg/l | 27.2   | 20.4                                                   | 34.0 | 3.40  | 6.80  | Roche Elecsys                         |
|                                                    | ng/ml =<br>µg/l | 39.8   | 29.9                                                   | 49.7 | 4.95  | 9.90  | Shenzhen YHLO iFlash Series           |
|                                                    | ng/ml =<br>µg/l | 25.0   | 18.8                                                   | 31.2 | 3.10  | 6.20  | Siemens Atellica IM                   |
|                                                    | ng/ml =<br>µg/l | 24.4   | 18.3                                                   | 30.5 | 3.05  | 6.10  | Siemens Centaur                       |
|                                                    | ng/ml =<br>µg/l | 20.9   | 15.7                                                   | 26.1 | 2.60  | 5.20  | Siemens Dimension                     |
|                                                    | ng/ml =<br>µg/l | 22.9   | 17.2                                                   | 28.6 | 2.85  | 5.70  | Siemens Immulite 1000, Total PSA      |
|                                                    | ng/ml =<br>µg/l | 21.8   | 16.4                                                   | 27.2 | 2.70  | 5.40  | Siemens Immulite 2000/2500, Total PSA |
|                                                    | ng/ml =<br>µg/l | 19.6   | 14.7                                                   | 24.5 | 2.45  | 4.90  | Sysmex HISCL Series                   |
|                                                    | ng/ml =<br>µg/l | 17.7   | 13.3                                                   | 22.1 | 2.20  | 4.40  | TOSOH AIA Series                      |
|                                                    | ng/ml =<br>µg/l | 21.8   | 16.4                                                   | 27.2 | 2.70  | 5.40  | Tosoh AIA-CL Series                   |
| Salicylate                                         | mg/dl           | 38.4   | 30.7                                                   | 46.1 | 3.85  | 7.70  | EMIT                                  |
|                                                    | mmol/l          | 2.78   | 2.22                                                   | 3.34 | 0.280 | 0.560 |                                       |
|                                                    | mg/dl           | 35.4   | 28.3                                                   | 42.5 | 3.55  | 7.10  | Roche Cobas c303/501/502/503          |
|                                                    | mmol/l          | 2.56   | 2.05                                                   | 3.07 | 0.255 | 0.510 |                                       |
| SHBG                                               | nmol/l          | 34.7   | 27.8                                                   | 41.6 | 3.45  | 6.90  | Abbott Alinity i                      |
|                                                    | nmol/l          | 37.4   | 29.9                                                   | 44.9 | 3.75  | 7.50  | Abbott Architect                      |
|                                                    | nmol/l          | 34.9   | 27.9                                                   | 41.9 | 3.50  | 7.00  | Beckman Access                        |
|                                                    | nmol/l          | 32.8   | 26.2                                                   | 39.4 | 3.30  | 6.60  | Beckman Dxl 600/800                   |
|                                                    | nmol/l          | 33.2   | 26.6                                                   | 39.8 | 3.30  | 6.60  | Roche analysers                       |
|                                                    | nmol/l          | 31.6   | 25.3                                                   | 37.9 | 3.15  | 6.30  | Roche e402/e801                       |
|                                                    | nmol/l          | 32.7   | 26.2                                                   | 39.2 | 3.25  | 6.50  | Siemens Atellica IM                   |
|                                                    | nmol/l          | 31.9   | 25.5                                                   | 38.3 | 3.20  | 6.40  | Siemens/DPC Immulite 2000/2500        |
|                                                    | nmol/l          | 32.0   | 25.6                                                   | 38.4 | 3.20  | 6.40  | Tosoh AIA-CL Series                   |

| Method                                             |        |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |       |                                    |                                  |
|----------------------------------------------------|--------|--------|--------------------------------------------------------|-------|-------|------------------------------------|----------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |        |                                                        |       |       |                                    |                                  |
| Size: 12 x 5 ml / 4 x 5 ml                         |        |        | Range                                                  |       |       |                                    |                                  |
| Analyte                                            | Unit   | Target | Low                                                    | High  | 1SD   | 2SD                                | Method                           |
| Testosterone                                       | ng/dl  | 764    | 611                                                    | 917   | 76.5  | 153                                | Abbott Alinity i                 |
|                                                    | ng/ml  | 7.63   | 6.10                                                   | 9.16  | 0.765 | 1.53                               |                                  |
|                                                    | nmol/l | 26.5   | 21.2                                                   | 31.8  | 2.65  | 5.30                               |                                  |
|                                                    | ng/dl  | 761    | 609                                                    | 913   | 76.0  | 152                                | Abbott Architect                 |
|                                                    | ng/ml  | 7.60   | 6.08                                                   | 9.12  | 0.760 | 1.52                               |                                  |
|                                                    | nmol/l | 26.4   | 21.1                                                   | 31.7  | 2.65  | 5.30                               |                                  |
|                                                    | ng/dl  | 741    | 593                                                    | 889   | 74.0  | 148                                | Abbott Architect 2nd gen         |
|                                                    | ng/ml  | 7.40   | 5.92                                                   | 8.88  | 0.740 | 1.48                               |                                  |
|                                                    | nmol/l | 25.7   | 20.6                                                   | 30.8  | 2.55  | 5.10                               |                                  |
|                                                    | ng/dl  | 718    | 574                                                    | 862   | 72.0  | 144                                | Beckman Access/LXi725            |
|                                                    | ng/ml  | 7.17   | 5.74                                                   | 8.60  | 0.715 | 1.43                               |                                  |
|                                                    | nmol/l | 24.9   | 19.9                                                   | 29.9  | 2.50  | 5.00                               |                                  |
|                                                    | ng/dl  | 666    | 533                                                    | 799   | 66.5  | 133                                | Beckman Dxl 600/800              |
|                                                    | ng/ml  | 6.65   | 5.32                                                   | 7.98  | 0.665 | 1.33                               |                                  |
|                                                    | nmol/l | 23.1   | 18.5                                                   | 27.7  | 2.30  | 4.60                               |                                  |
|                                                    | ng/dl  | 709    | 567                                                    | 851   | 71.0  | 142                                | bioMerieux VIDAS Testosterone II |
|                                                    | ng/ml  | 7.08   | 5.66                                                   | 8.50  | 0.710 | 1.42                               |                                  |
|                                                    | nmol/l | 24.6   | 19.7                                                   | 29.5  | 2.45  | 4.90                               |                                  |
|                                                    | ng/dl  | 378    | 302                                                    | 454   | 38.0  | 76.0                               | DiaSorin Liaison XL              |
|                                                    | ng/ml  | 3.77   | 3.02                                                   | 4.52  | 0.375 | 0.750                              |                                  |
|                                                    | nmol/l | 13.1   | 10.5                                                   | 15.7  | 1.30  | 2.60                               |                                  |
|                                                    | ng/dl  | 1049   | 839                                                    | 1259  | 105   | 210                                | Finecare                         |
|                                                    | ng/ml  | 10.5   | 8.40                                                   | 12.6  | 1.05  | 2.10                               |                                  |
|                                                    | nmol/l | 36.4   | 29.1                                                   | 43.7  | 3.65  | 7.30                               |                                  |
|                                                    | ng/dl  | 614    | 491                                                    | 737   | 61.5  | 123                                | Immunotech RIA                   |
|                                                    | ng/ml  | 6.13   | 4.90                                                   | 7.36  | 0.615 | 1.23                               |                                  |
|                                                    | nmol/l | 21.3   | 17.0                                                   | 25.6  | 2.15  | 4.30                               |                                  |
|                                                    | ng/dl  | 827    | 662                                                    | 992   | 82.5  | 165                                | Lifotronic eCL                   |
|                                                    | ng/ml  | 8.27   | 6.62                                                   | 9.92  | 0.825 | 1.65                               |                                  |
|                                                    | nmol/l | 28.7   | 23.0                                                   | 34.4  | 2.85  | 5.70                               |                                  |
| ng/dl                                              | 1124   | 899    | 1349                                                   | 113   | 225   | Ortho Vitros 3600/5600/ECi/XT 7600 |                                  |
| ng/ml                                              | 11.2   | 8.96   | 13.4                                                   | 1.10  | 2.20  |                                    |                                  |
| nmol/l                                             | 39.0   | 31.2   | 46.8                                                   | 3.90  | 7.80  |                                    |                                  |
| ng/dl                                              | 804    | 643    | 965                                                    | 80.5  | 161   | Roche Cobas 4000/e411 Test II      |                                  |
| ng/ml                                              | 8.04   | 6.43   | 9.65                                                   | 0.805 | 1.61  |                                    |                                  |
| nmol/l                                             | 27.9   | 22.3   | 33.5                                                   | 2.80  | 5.60  |                                    |                                  |
| ng/dl                                              | 818    | 654    | 982                                                    | 82.0  | 164   | Roche Cobas e402/e801 Test II      |                                  |
| ng/ml                                              | 8.18   | 6.54   | 9.82                                                   | 0.820 | 1.64  |                                    |                                  |
| nmol/l                                             | 28.4   | 22.7   | 34.1                                                   | 2.85  | 5.70  |                                    |                                  |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |      |                                |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |      |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |      |                                |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD  | Method                         |
| Testosterone                                       | ng/dl  | 830                                                    | 664  | 996  | 83.0  | 166  | Roche Cobas e601/ 602 Test II  |
|                                                    | ng/ml  | 8.29                                                   | 6.63 | 9.95 | 0.830 | 1.66 |                                |
|                                                    | nmol/l | 28.8                                                   | 23.0 | 34.6 | 2.90  | 5.80 |                                |
|                                                    | ng/dl  | 824                                                    | 659  | 989  | 82.5  | 165  | Roche Elecsys Test II          |
|                                                    | ng/ml  | 8.24                                                   | 6.59 | 9.89 | 0.825 | 1.65 |                                |
|                                                    | nmol/l | 28.6                                                   | 22.9 | 34.3 | 2.85  | 5.70 |                                |
|                                                    | ng/dl  | 617                                                    | 494  | 740  | 61.5  | 123  | Shenzhen YHLO iFlash Series    |
|                                                    | ng/ml  | 6.16                                                   | 4.93 | 7.39 | 0.615 | 1.23 |                                |
|                                                    | nmol/l | 21.4                                                   | 17.1 | 25.7 | 2.15  | 4.30 |                                |
|                                                    | ng/dl  | 654                                                    | 523  | 785  | 65.5  | 131  | Siemens Atellica IM            |
|                                                    | ng/ml  | 6.54                                                   | 5.23 | 7.85 | 0.655 | 1.31 |                                |
|                                                    | nmol/l | 22.7                                                   | 18.2 | 27.2 | 2.25  | 4.50 |                                |
|                                                    | ng/dl  | 651                                                    | 521  | 781  | 65.0  | 130  | Siemens Centaur XP/XPT TSTII   |
|                                                    | ng/ml  | 6.51                                                   | 5.21 | 7.81 | 0.650 | 1.30 |                                |
|                                                    | nmol/l | 22.6                                                   | 18.1 | 27.1 | 2.25  | 4.50 |                                |
|                                                    | ng/dl  | 663                                                    | 530  | 796  | 66.5  | 133  | Siemens Centaur XP/XPT TSTO    |
|                                                    | ng/ml  | 6.62                                                   | 5.30 | 7.94 | 0.660 | 1.32 |                                |
|                                                    | nmol/l | 23.0                                                   | 18.4 | 27.6 | 2.30  | 4.60 |                                |
|                                                    | ng/dl  | 1135                                                   | 908  | 1362 | 114   | 227  | Siemens/DPC Immulite 2000/2500 |
|                                                    | ng/ml  | 11.3                                                   | 9.04 | 13.6 | 1.15  | 2.30 |                                |
|                                                    | nmol/l | 39.4                                                   | 31.5 | 47.3 | 3.95  | 7.90 |                                |
|                                                    | ng/dl  | 1167                                                   | 934  | 1400 | 117   | 233  | TOSOH AIA Series               |
|                                                    | ng/ml  | 11.7                                                   | 9.36 | 14.0 | 1.15  | 2.30 |                                |
|                                                    | nmol/l | 40.5                                                   | 32.4 | 48.6 | 4.05  | 8.10 |                                |
|                                                    | ng/dl  | 1049                                                   | 839  | 1259 | 105   | 210  | Tosoh AIA-CL Series            |
|                                                    | ng/ml  | 10.5                                                   | 8.40 | 12.6 | 1.05  | 2.10 |                                |
|                                                    | nmol/l | 36.4                                                   | 29.1 | 43.7 | 3.65  | 7.30 |                                |
| Theophylline                                       | µg/ml  | 25.4                                                   | 20.3 | 30.5 | 2.55  | 5.10 | Abbott Alinity Enzyme-immu     |
|                                                    | µmol/l | 141                                                    | 113  | 169  | 14.0  | 28.0 |                                |
|                                                    | µg/ml  | 24.0                                                   | 19.2 | 28.8 | 2.40  | 4.80 | Beckman AU Instruments         |
|                                                    | µmol/l | 133                                                    | 106  | 160  | 13.5  | 27.0 |                                |
|                                                    | µg/ml  | 25.9                                                   | 20.7 | 31.1 | 2.60  | 5.20 | Roche Cobas 6000/8000          |
|                                                    | µmol/l | 144                                                    | 115  | 173  | 14.5  | 29.0 |                                |
| Thyroglobulin                                      | ng/ml  | 85.2                                                   | 63.9 | 107  | 10.9  | 21.8 | Abbott Alinity i               |
|                                                    | ng/ml  | 68.6                                                   | 51.5 | 85.7 | 8.55  | 17.1 | Beckman Access                 |
|                                                    | ng/ml  | 68.4                                                   | 51.3 | 85.5 | 8.55  | 17.1 | Beckman Dxl 600/800            |
|                                                    | ng/ml  | 74.6                                                   | 56.0 | 93.2 | 9.30  | 18.6 | Beckman IRMA                   |
|                                                    | ng/ml  | 66.0                                                   | 49.5 | 82.5 | 8.25  | 16.5 | DiaSorin Liaison XL            |
|                                                    | ng/ml  | 69.9                                                   | 52.4 | 87.4 | 8.75  | 17.5 | DiaSorin, Liaison XL TG II Gen |

| Method                                             |               |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |                                       |
|----------------------------------------------------|---------------|--------|--------------------------------------------------------|------|------|------|---------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |        |                                                        |      |      |      |                                       |
| Size: 12 x 5 ml / 4 x 5 ml                         |               |        | Range                                                  |      |      |      |                                       |
| Analyte                                            | Unit          | Target | Low                                                    | High | 1SD  | 2SD  | Method                                |
| Thyroglobulin                                      | ng/ml         | 67.7   | 50.8                                                   | 84.6 | 8.45 | 16.9 | Roche Cobas 4000/e411                 |
|                                                    | ng/ml         | 65.1   | 48.8                                                   | 81.4 | 8.15 | 16.3 | Roche Cobas 4000/e411 Tg II           |
|                                                    | ng/ml         | 68.5   | 51.4                                                   | 85.6 | 8.55 | 17.1 | Roche Cobas e402/e801 Tg II           |
|                                                    | ng/ml         | 67.2   | 50.4                                                   | 84.0 | 8.40 | 16.8 | Roche Cobas e601/602                  |
|                                                    | ng/ml         | 68.9   | 51.7                                                   | 86.1 | 8.60 | 17.2 | Roche Cobas e601/602 Tg II            |
|                                                    | ng/ml         | 72.2   | 54.2                                                   | 90.2 | 9.00 | 18.0 | Roche Elecsys                         |
|                                                    | ng/ml         | 68.8   | 51.6                                                   | 86.0 | 8.60 | 17.2 | Roche Elecsys Tg II                   |
|                                                    | ng/ml         | 44.4   | 33.3                                                   | 55.5 | 5.55 | 11.1 | Siemens/DPC Immulite 2000/2500        |
|                                                    | ng/ml         | 78.8   | 59.1                                                   | 98.5 | 9.85 | 19.7 | TOSOH AIA Series                      |
|                                                    | ng/ml         | 66.3   | 49.7                                                   | 82.9 | 8.30 | 16.6 | Tosoh AIA-CL Series                   |
| Thyroid Stimulating Hormone                        | µU/ml = mIU/l | 15.9   | 12.7                                                   | 19.1 | 1.60 | 3.20 | Abbott Alinity i                      |
|                                                    | µU/ml = mIU/l | 16.3   | 13.0                                                   | 19.6 | 1.65 | 3.30 | Abbott Architect                      |
|                                                    | µU/ml = mIU/l | 19.0   | 15.2                                                   | 22.8 | 1.90 | 3.80 | Access/LXi725 Fast TSH 2nd gen.       |
|                                                    | µU/ml = mIU/l | 18.2   | 14.6                                                   | 21.8 | 1.80 | 3.60 | Access/LXi725 hyper TSH 3rd gen.      |
|                                                    | µU/ml = mIU/l | 17.8   | 14.2                                                   | 21.4 | 1.80 | 3.60 | Beckman Dxl 600/800 1st generation    |
|                                                    | µU/ml = mIU/l | 18.0   | 14.4                                                   | 21.6 | 1.80 | 3.60 | Beckman DXI 600/800 Fast TSH          |
|                                                    | µU/ml = mIU/l | 17.7   | 14.2                                                   | 21.2 | 1.75 | 3.50 | Beckman DXI 600/800 Hyper TSH         |
|                                                    | µU/ml = mIU/l | 17.6   | 14.1                                                   | 21.1 | 1.75 | 3.50 | Beckman DXI600/800/ Access 2 (3rd IS) |
|                                                    | µU/ml = mIU/l | 13.8   | 11.0                                                   | 16.6 | 1.40 | 2.80 | Biomerieux VIDAS TSH                  |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |      |                                      |
|----------------------------------------------------|---------------|--------------------------------------------------------|------|------|------|------|--------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |      |      |      |      |                                      |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |      |      |      |      |                                      |
| Analyte                                            | Unit          | Target                                                 | Low  | High | 1SD  | 2SD  | Method                               |
| Thyroid Stimulating Hormone                        | µU/ml = mIU/l | 13.3                                                   | 10.6 | 16.0 | 1.35 | 2.70 | Biomerieux VIDAS TSH3 Ultrasensitive |
|                                                    | µU/ml = mIU/l | 30.1                                                   | 24.1 | 36.1 | 3.00 | 6.00 | DiaSorin Liaison                     |
|                                                    | µU/ml = mIU/l | 33.0                                                   | 26.4 | 39.6 | 3.30 | 6.60 | DiaSorin Liaison XL                  |
|                                                    | µU/ml = mIU/l | 15.6                                                   | 12.5 | 18.7 | 1.55 | 3.10 | Finecare                             |
|                                                    | µU/ml = mIU/l | 20.2                                                   | 16.2 | 24.2 | 2.00 | 4.00 | Fujirebio Lumipulse G Series         |
|                                                    | µU/ml = mIU/l | 15.6                                                   | 12.5 | 18.7 | 1.55 | 3.10 | Immunotech IRMA                      |
|                                                    | µU/ml = mIU/l | 22.6                                                   | 18.1 | 27.1 | 2.25 | 4.50 | Izotop IRMA                          |
|                                                    | µU/ml = mIU/l | 22.3                                                   | 17.8 | 26.8 | 2.25 | 4.50 | Lifotronic eCL                       |
|                                                    | µU/ml = mIU/l | 23.2                                                   | 18.6 | 27.8 | 2.30 | 4.60 | Maccura I Series                     |
|                                                    | µU/ml = mIU/l | 22.5                                                   | 18.0 | 27.0 | 2.25 | 4.50 | Ortho Vitros TSH                     |
|                                                    | µU/ml = mIU/l | 21.0                                                   | 16.8 | 25.2 | 2.10 | 4.20 | Ortho Vitros TSH3                    |
|                                                    | µU/ml = mIU/l | 18.8                                                   | 15.0 | 22.6 | 1.90 | 3.80 | Roche Cobas 4000/e411                |
|                                                    | µU/ml = mIU/l | 17.5                                                   | 14.0 | 21.0 | 1.75 | 3.50 | Roche Cobas e402/e801                |

| Method                                             |               | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |       |       |       |                                |
|----------------------------------------------------|---------------|--------------------------------------------------------|-------|-------|-------|-------|--------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |               |                                                        |       |       |       |       |                                |
| Size: 12 x 5 ml / 4 x 5 ml                         |               | Range                                                  |       |       |       |       |                                |
| Analyte                                            | Unit          | Target                                                 | Low   | High  | 1SD   | 2SD   | Method                         |
| Thyroid Stimulating Hormone                        | µU/ml = mIU/l | 19.0                                                   | 15.2  | 22.8  | 1.90  | 3.80  | Roche Cobas e601/ 602          |
|                                                    | µU/ml = mIU/l | 18.8                                                   | 15.0  | 22.6  | 1.90  | 3.80  | Roche Elecsys                  |
|                                                    | µU/ml = mIU/l | 23.0                                                   | 18.4  | 27.6  | 2.30  | 4.60  | Shenzhen YHLO iFlash Series    |
|                                                    | µU/ml = mIU/l | 18.7                                                   | 15.0  | 22.4  | 1.85  | 3.70  | Siemens Atellica IM            |
|                                                    | µU/ml = mIU/l | 18.9                                                   | 15.1  | 22.7  | 1.90  | 3.80  | Siemens Centaur                |
|                                                    | µU/ml = mIU/l | 19.9                                                   | 15.9  | 23.9  | 2.00  | 4.00  | Siemens Centaur TSH3-Ultra     |
|                                                    | µU/ml = mIU/l | 15.9                                                   | 12.7  | 19.1  | 1.60  | 3.20  | Siemens Dimension Exl LOCI     |
|                                                    | µU/ml = mIU/l | 19.5                                                   | 15.6  | 23.4  | 1.95  | 3.90  | Siemens/DPC Immulite 1000      |
|                                                    | µU/ml = mIU/l | 19.0                                                   | 15.2  | 22.8  | 1.90  | 3.80  | Siemens/DPC Immulite 2000/2500 |
|                                                    | µU/ml = mIU/l | 18.1                                                   | 14.5  | 21.7  | 1.80  | 3.60  | Sysmex HISCL Series            |
|                                                    | µU/ml = mIU/l | 21.6                                                   | 17.3  | 25.9  | 2.15  | 4.30  | TOSOH AIA Series               |
|                                                    | µU/ml = mIU/l | 18.9                                                   | 15.1  | 22.7  | 1.90  | 3.80  | Tosoh AIA-CL Series            |
| Total Beta hCG                                     | IU/ml         | 0.185                                                  | 0.148 | 0.222 | 0.019 | 0.037 | Abbott Alinity i               |
|                                                    | mU/ml = IU/l  | 185                                                    | 148   | 222   | 18.5  | 37.0  |                                |

| Method                                             |                 | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |       |       |       |                                    |
|----------------------------------------------------|-----------------|--------------------------------------------------------|-------|-------|-------|-------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |                 |                                                        |       |       |       |       |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |                 | Range                                                  |       |       |       |       |                                    |
| Analyte                                            | Unit            | Target                                                 | Low   | High  | 1SD   | 2SD   | Method                             |
| Total Beta hCG                                     | IU/ml           | 0.181                                                  | 0.145 | 0.217 | 0.018 | 0.036 | Abbott Architect                   |
|                                                    | mU/ml<br>= IU/l | 181                                                    | 145   | 217   | 18.0  | 36.0  |                                    |
|                                                    | IU/ml           | 0.169                                                  | 0.135 | 0.203 | 0.017 | 0.034 | Beckman Access Total BhCG (5th IS) |
|                                                    | mU/ml<br>= IU/l | 169                                                    | 135   | 203   | 17.0  | 34.0  |                                    |
|                                                    | IU/ml           | 0.172                                                  | 0.138 | 0.206 | 0.017 | 0.034 | Beckman Access/LXi725              |
|                                                    | mU/ml<br>= IU/l | 172                                                    | 138   | 206   | 17.0  | 34.0  |                                    |
|                                                    | IU/ml           | 0.174                                                  | 0.139 | 0.209 | 0.018 | 0.035 | Beckman Dxl 600/800                |
|                                                    | mU/ml<br>= IU/l | 174                                                    | 139   | 209   | 17.5  | 35.0  |                                    |
|                                                    | IU/ml           | 0.176                                                  | 0.141 | 0.211 | 0.018 | 0.035 | Beckman DXI Total BhCG (5th IS)    |
|                                                    | mU/ml<br>= IU/l | 176                                                    | 141   | 211   | 17.5  | 35.0  |                                    |
|                                                    | IU/ml           | 0.392                                                  | 0.314 | 0.470 | 0.039 | 0.078 | bioMerieux, VIDAS                  |
|                                                    | mU/ml<br>= IU/l | 392                                                    | 314   | 470   | 39.0  | 78.0  |                                    |
|                                                    | IU/ml           | 0.175                                                  | 0.140 | 0.210 | 0.018 | 0.035 | DiaSorin Liaison XL                |
|                                                    | mU/ml<br>= IU/l | 175                                                    | 140   | 210   | 17.5  | 35.0  |                                    |
|                                                    | IU/ml           | 0.426                                                  | 0.341 | 0.511 | 0.043 | 0.085 | Lifotronic eCL                     |
|                                                    | mU/ml<br>= IU/l | 426                                                    | 341   | 511   | 42.5  | 85.0  |                                    |
|                                                    | IU/ml           | 0.409                                                  | 0.327 | 0.491 | 0.041 | 0.082 | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | mU/ml<br>= IU/l | 409                                                    | 327   | 491   | 41.0  | 82.0  |                                    |
|                                                    | IU/ml           | 0.175                                                  | 0.140 | 0.210 | 0.018 | 0.035 | Radiometer AQT90 Flex              |
|                                                    | mU/ml<br>= IU/l | 175                                                    | 140   | 210   | 17.5  | 35.0  |                                    |
|                                                    | IU/ml           | 0.246                                                  | 0.197 | 0.295 | 0.025 | 0.049 | Roche Cobas Core EIA               |
|                                                    | mU/ml<br>= IU/l | 246                                                    | 197   | 295   | 24.5  | 49.0  |                                    |
|                                                    | IU/ml           | 0.240                                                  | 0.192 | 0.288 | 0.024 | 0.048 | Roche hCG + Beta e402/e801         |
|                                                    | mU/ml<br>= IU/l | 240                                                    | 192   | 288   | 24.0  | 48.0  |                                    |
|                                                    | IU/ml           | 0.183                                                  | 0.146 | 0.220 | 0.019 | 0.037 | Roche hCG STAT(Intact)             |
|                                                    | mU/ml<br>= IU/l | 183                                                    | 146   | 220   | 18.5  | 37.0  |                                    |

| Method                                             |              |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |       |       |                             |
|----------------------------------------------------|--------------|--------|--------------------------------------------------------|-------|-------|-------|-----------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |              |        |                                                        |       |       |       |                             |
| Size: 12 x 5 ml / 4 x 5 ml                         |              |        | Range                                                  |       |       |       |                             |
| Analyte                                            | Unit         | Target | Low                                                    | High  | 1SD   | 2SD   | Method                      |
| Total Beta hCG                                     | IU/ml        | 0.247  | 0.198                                                  | 0.296 | 0.025 | 0.049 | Roche hCG+Beta              |
|                                                    | mU/ml = IU/l | 247    | 198                                                    | 296   | 24.5  | 49.0  |                             |
|                                                    | IU/ml        | 0.133  | 0.106                                                  | 0.160 | 0.014 | 0.027 | Shenzhen YHLO iFlash Series |
|                                                    | mU/ml = IU/l | 133    | 106                                                    | 160   | 13.5  | 27.0  |                             |
|                                                    | IU/ml        | 0.137  | 0.110                                                  | 0.164 | 0.014 | 0.027 | Siemens Atellica IM         |
|                                                    | mU/ml = IU/l | 137    | 110                                                    | 164   | 13.5  | 27.0  |                             |
|                                                    | IU/ml        | 0.132  | 0.106                                                  | 0.158 | 0.013 | 0.026 | Siemens Centaur             |
|                                                    | mU/ml = IU/l | 132    | 106                                                    | 158   | 13.0  | 26.0  |                             |
|                                                    | IU/ml        | 0.458  | 0.366                                                  | 0.550 | 0.046 | 0.092 | Siemens Dimension           |
|                                                    | mU/ml = IU/l | 458    | 366                                                    | 550   | 46.0  | 92.0  |                             |
|                                                    | IU/ml        | 0.533  | 0.426                                                  | 0.640 | 0.054 | 0.107 | Siemens/DPC Immulite 1000   |
|                                                    | mU/ml = IU/l | 533    | 426                                                    | 640   | 53.5  | 107   |                             |
| Total T3                                           | IU/ml        | 0.478  | 0.382                                                  | 0.574 | 0.048 | 0.096 | Siemens/DPC Immulite 2000   |
|                                                    | mU/ml = IU/l | 478    | 382                                                    | 574   | 48.0  | 96.0  |                             |
|                                                    | IU/ml        | 0.411  | 0.329                                                  | 0.493 | 0.041 | 0.082 | TOSOH AIA Series            |
|                                                    | mU/ml = IU/l | 411    | 329                                                    | 493   | 41.0  | 82.0  |                             |
|                                                    | IU/ml        | 0.546  | 0.437                                                  | 0.655 | 0.055 | 0.109 | Tosoh AIA-CL Series         |
|                                                    | mU/ml = IU/l | 546    | 437                                                    | 655   | 54.5  | 109   |                             |
|                                                    | ng/dl        | 334    | 251                                                    | 417   | 41.5  | 83.0  | Abbott Alinity i            |
|                                                    | ng/ml        | 3.35   | 2.51                                                   | 4.19  | 0.420 | 0.840 |                             |
|                                                    | nmol/l       | 5.14   | 3.86                                                   | 6.42  | 0.640 | 1.28  |                             |
|                                                    | ng/dl        | 325    | 244                                                    | 406   | 40.5  | 81.0  | Abbott Architect            |
|                                                    | ng/ml        | 3.25   | 2.44                                                   | 4.06  | 0.405 | 0.810 |                             |
|                                                    | nmol/l       | 5.00   | 3.75                                                   | 6.25  | 0.625 | 1.25  |                             |
|                                                    | ng/dl        | 355    | 266                                                    | 444   | 44.5  | 89.0  | Beckman Access/LXi725       |
|                                                    | ng/ml        | 3.55   | 2.66                                                   | 4.44  | 0.445 | 0.890 |                             |
|                                                    | nmol/l       | 5.46   | 4.10                                                   | 6.82  | 0.680 | 1.36  |                             |
|                                                    | ng/dl        | 348    | 261                                                    | 435   | 43.5  | 87.0  | Beckman Dxl 600/800         |
|                                                    | ng/ml        | 3.49   | 2.62                                                   | 4.36  | 0.435 | 0.870 |                             |
|                                                    | nmol/l       | 5.36   | 4.02                                                   | 6.70  | 0.670 | 1.34  |                             |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |       |      |       |       |                                    |
|----------------------------------------------------|--------|--------------------------------------------------------|-------|------|-------|-------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |       |      |       |       |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        |                                                        | Range |      |       |       |                                    |
| Analyte                                            | Unit   | Target                                                 | Low   | High | 1SD   | 2SD   | Method                             |
| Total T3                                           | ng/dl  | 358                                                    | 269   | 447  | 44.5  | 89.0  | bioMerieux, VIDAS                  |
|                                                    | ng/ml  | 3.59                                                   | 2.69  | 4.49 | 0.450 | 0.900 |                                    |
|                                                    | nmol/l | 5.52                                                   | 4.14  | 6.90 | 0.690 | 1.38  |                                    |
|                                                    | ng/dl  | 308                                                    | 231   | 385  | 38.5  | 77.0  | DiaSorin Liaison XL                |
|                                                    | ng/ml  | 3.09                                                   | 2.32  | 3.86 | 0.385 | 0.770 |                                    |
|                                                    | nmol/l | 4.75                                                   | 3.56  | 5.94 | 0.595 | 1.19  |                                    |
|                                                    | ng/dl  | 281                                                    | 211   | 351  | 35.0  | 70.0  | Immunotech RIA                     |
|                                                    | ng/ml  | 2.82                                                   | 2.12  | 3.52 | 0.350 | 0.700 |                                    |
|                                                    | nmol/l | 4.33                                                   | 3.25  | 5.41 | 0.540 | 1.08  |                                    |
|                                                    | ng/dl  | 433                                                    | 325   | 541  | 54.0  | 108   | Ortho Vitros 3600/5600/ECi/XT/7600 |
|                                                    | ng/ml  | 4.34                                                   | 3.26  | 5.42 | 0.540 | 1.08  |                                    |
|                                                    | nmol/l | 6.67                                                   | 5.00  | 8.34 | 0.835 | 1.67  |                                    |
|                                                    | ng/dl  | 410                                                    | 308   | 512  | 51.0  | 102   | Roche Cobas 4000/e411              |
|                                                    | ng/ml  | 4.11                                                   | 3.08  | 5.14 | 0.515 | 1.03  |                                    |
|                                                    | nmol/l | 6.31                                                   | 4.73  | 7.89 | 0.790 | 1.58  |                                    |
|                                                    | ng/dl  | 421                                                    | 316   | 526  | 52.5  | 105   | Roche Cobas e402/e801              |
|                                                    | ng/ml  | 4.22                                                   | 3.17  | 5.27 | 0.525 | 1.05  |                                    |
|                                                    | nmol/l | 6.48                                                   | 4.86  | 8.10 | 0.810 | 1.62  |                                    |
|                                                    | ng/dl  | 397                                                    | 298   | 496  | 49.5  | 99.0  | Roche Cobas e601/ 602              |
|                                                    | ng/ml  | 3.98                                                   | 2.99  | 4.97 | 0.495 | 0.990 |                                    |
|                                                    | nmol/l | 6.11                                                   | 4.58  | 7.64 | 0.765 | 1.53  |                                    |
|                                                    | ng/dl  | 319                                                    | 239   | 399  | 40.0  | 80.0  | Shenzhen YHLO iFlash Series        |
|                                                    | ng/ml  | 3.20                                                   | 2.40  | 4.00 | 0.400 | 0.800 |                                    |
|                                                    | nmol/l | 4.91                                                   | 3.68  | 6.14 | 0.615 | 1.23  |                                    |
|                                                    | ng/dl  | 407                                                    | 305   | 509  | 51.0  | 102   | Siemens Atellica IM                |
|                                                    | ng/ml  | 4.08                                                   | 3.06  | 5.10 | 0.510 | 1.02  |                                    |
|                                                    | nmol/l | 6.27                                                   | 4.70  | 7.84 | 0.785 | 1.57  |                                    |
|                                                    | ng/dl  | 395                                                    | 296   | 494  | 49.5  | 99.0  | Siemens Centaur                    |
|                                                    | ng/ml  | 3.96                                                   | 2.97  | 4.95 | 0.495 | 0.990 |                                    |
|                                                    | nmol/l | 6.09                                                   | 4.57  | 7.61 | 0.760 | 1.52  |                                    |
|                                                    | ng/dl  | 359                                                    | 269   | 449  | 45.0  | 90.0  | Siemens/DPC Immulite 2000/2500     |
|                                                    | ng/ml  | 3.60                                                   | 2.70  | 4.50 | 0.450 | 0.900 |                                    |
|                                                    | nmol/l | 5.53                                                   | 4.15  | 6.91 | 0.690 | 1.38  |                                    |
|                                                    | ng/dl  | 355                                                    | 266   | 444  | 44.5  | 89.0  | TOSOH AIA Series                   |
|                                                    | ng/ml  | 3.55                                                   | 2.66  | 4.44 | 0.445 | 0.890 |                                    |
|                                                    | nmol/l | 5.46                                                   | 4.10  | 6.82 | 0.680 | 1.36  |                                    |
|                                                    | ng/dl  | 348                                                    | 261   | 435  | 43.5  | 87.0  | Tosoh AIA-CL Series                |
|                                                    | ng/ml  | 3.49                                                   | 2.62  | 4.36 | 0.435 | 0.870 |                                    |
|                                                    | nmol/l | 5.36                                                   | 4.02  | 6.70 | 0.670 | 1.34  |                                    |

| Method                                             |        |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |                             |                                    |
|----------------------------------------------------|--------|--------|--------------------------------------------------------|------|------|-----------------------------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |        |                                                        |      |      |                             |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        |        | Range                                                  |      |      |                             |                                    |
| Analyte                                            | Unit   | Target | Low                                                    | High | 1SD  | 2SD                         | Method                             |
| Total T4                                           | ng/ml  | 137    | 103                                                    | 171  | 17.0 | 34.0                        | Abbott Alinity i                   |
|                                                    | nmol/l | 176    | 132                                                    | 220  | 22.0 | 44.0                        |                                    |
|                                                    | µg/dl  | 13.7   | 10.3                                                   | 17.1 | 1.70 | 3.40                        |                                    |
|                                                    | ng/ml  | 140    | 105                                                    | 175  | 17.5 | 35.0                        | Abbott Architect                   |
|                                                    | nmol/l | 179    | 134                                                    | 224  | 22.5 | 45.0                        |                                    |
|                                                    | µg/dl  | 14.0   | 10.5                                                   | 17.5 | 1.75 | 3.50                        |                                    |
|                                                    | ng/ml  | 166    | 125                                                    | 207  | 20.5 | 41.0                        | Beckman Access/LXi725              |
|                                                    | nmol/l | 213    | 160                                                    | 266  | 26.5 | 53.0                        |                                    |
|                                                    | µg/dl  | 16.6   | 12.5                                                   | 20.7 | 2.05 | 4.10                        |                                    |
|                                                    | ng/ml  | 161    | 121                                                    | 201  | 20.0 | 40.0                        | Beckman Dxl 600/800                |
|                                                    | nmol/l | 206    | 155                                                    | 257  | 25.5 | 51.0                        |                                    |
|                                                    | µg/dl  | 16.1   | 12.1                                                   | 20.1 | 2.00 | 4.00                        |                                    |
|                                                    | ng/ml  | 165    | 124                                                    | 206  | 20.5 | 41.0                        | bioMerieux, VIDAS                  |
|                                                    | nmol/l | 212    | 159                                                    | 265  | 26.5 | 53.0                        |                                    |
|                                                    | µg/dl  | 16.5   | 12.4                                                   | 20.6 | 2.05 | 4.10                        |                                    |
|                                                    | ng/ml  | 133    | 99.8                                                   | 166  | 16.5 | 33.0                        | DiaSorin Liaison XL                |
|                                                    | nmol/l | 171    | 128                                                    | 214  | 21.5 | 43.0                        |                                    |
|                                                    | µg/dl  | 13.3   | 9.98                                                   | 16.6 | 1.65 | 3.30                        |                                    |
|                                                    | ng/ml  | 108    | 81.0                                                   | 135  | 13.5 | 27.0                        | Immunotech RIA                     |
|                                                    | nmol/l | 139    | 104                                                    | 174  | 17.5 | 35.0                        |                                    |
|                                                    | µg/dl  | 10.8   | 8.10                                                   | 13.5 | 1.35 | 2.70                        |                                    |
|                                                    | ng/ml  | 147    | 110                                                    | 184  | 18.5 | 37.0                        | Ortho Vitros 3600/5600/ECi/XT 7600 |
|                                                    | nmol/l | 188    | 141                                                    | 235  | 23.5 | 47.0                        |                                    |
|                                                    | µg/dl  | 14.7   | 11.0                                                   | 18.4 | 1.85 | 3.70                        |                                    |
|                                                    | ng/ml  | 136    | 102                                                    | 170  | 17.0 | 34.0                        | Roche Cobas 4000/e411              |
|                                                    | nmol/l | 175    | 131                                                    | 219  | 22.0 | 44.0                        |                                    |
|                                                    | µg/dl  | 13.7   | 10.3                                                   | 17.1 | 1.70 | 3.40                        |                                    |
| ng/ml                                              | 125    | 93.8   | 156                                                    | 15.5 | 31.0 | Roche Cobas e402/e801       |                                    |
| nmol/l                                             | 160    | 120    | 200                                                    | 20.0 | 40.0 |                             |                                    |
| µg/dl                                              | 12.5   | 9.38   | 15.6                                                   | 1.55 | 3.10 |                             |                                    |
| ng/ml                                              | 131    | 98.3   | 164                                                    | 16.5 | 33.0 | Roche Cobas e601/ 602       |                                    |
| nmol/l                                             | 168    | 126    | 210                                                    | 21.0 | 42.0 |                             |                                    |
| µg/dl                                              | 13.1   | 9.83   | 16.4                                                   | 1.65 | 3.30 |                             |                                    |
| ng/ml                                              | 132    | 99.0   | 165                                                    | 16.5 | 33.0 | Roche Elecsys               |                                    |
| nmol/l                                             | 169    | 127    | 211                                                    | 21.0 | 42.0 |                             |                                    |
| µg/dl                                              | 13.2   | 9.90   | 16.5                                                   | 1.65 | 3.30 |                             |                                    |
| ng/ml                                              | 115    | 86.3   | 144                                                    | 14.5 | 29.0 | Shenzhen YHLO iFlash Series |                                    |
| nmol/l                                             | 148    | 111    | 185                                                    | 18.5 | 37.0 |                             |                                    |
| µg/dl                                              | 11.5   | 8.63   | 14.4                                                   | 1.45 | 2.90 |                             |                                    |

| Method                                             |        |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |      |                                    |
|----------------------------------------------------|--------|--------|--------------------------------------------------------|------|------|------|------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |        |                                                        |      |      |      |                                    |
| Size: 12 x 5 ml / 4 x 5 ml                         |        |        | Range                                                  |      |      |      |                                    |
| Analyte                                            | Unit   | Target | Low                                                    | High | 1SD  | 2SD  | Method                             |
| Total T4                                           | ng/ml  | 155    | 116                                                    | 194  | 19.5 | 39.0 | Siemens Atellica IM                |
|                                                    | nmol/l | 199    | 149                                                    | 249  | 25.0 | 50.0 |                                    |
|                                                    | µg/dl  | 15.5   | 11.6                                                   | 19.4 | 1.95 | 3.90 |                                    |
|                                                    | ng/ml  | 160    | 120                                                    | 200  | 20.0 | 40.0 | Siemens Centaur                    |
|                                                    | nmol/l | 205    | 154                                                    | 256  | 25.5 | 51.0 |                                    |
|                                                    | µg/dl  | 16.0   | 12.0                                                   | 20.0 | 2.00 | 4.00 |                                    |
|                                                    | ng/ml  | 147    | 110                                                    | 184  | 18.5 | 37.0 | Siemens/DPC Immulite 2000/2500     |
|                                                    | nmol/l | 188    | 141                                                    | 235  | 23.5 | 47.0 |                                    |
|                                                    | µg/dl  | 14.7   | 11.0                                                   | 18.4 | 1.85 | 3.70 |                                    |
|                                                    | ng/ml  | 129    | 96.8                                                   | 161  | 16.0 | 32.0 | TOSOH AIA Series                   |
|                                                    | nmol/l | 166    | 125                                                    | 207  | 20.5 | 41.0 |                                    |
|                                                    | µg/dl  | 12.9   | 9.68                                                   | 16.1 | 1.60 | 3.20 |                                    |
|                                                    | ng/ml  | 159    | 119                                                    | 199  | 20.0 | 40.0 | Tosoh AIA-CL Series                |
|                                                    | nmol/l | 204    | 153                                                    | 255  | 25.5 | 51.0 |                                    |
|                                                    | µg/dl  | 15.9   | 11.9                                                   | 19.9 | 2.00 | 4.00 |                                    |
| Valproic Acid                                      | µg/ml  | 141    | 113                                                    | 169  | 14.0 | 28.0 | Abbott Architect (CMIA)            |
|                                                    | µmol/l | 979    | 783                                                    | 1175 | 98.0 | 196  |                                    |
|                                                    | µg/ml  | 133    | 106                                                    | 160  | 13.5 | 27.0 | Abbott Alinity (CMIA)              |
|                                                    | µmol/l | 921    | 737                                                    | 1105 | 92.0 | 184  |                                    |
|                                                    | µg/ml  | 133    | 106                                                    | 160  | 13.5 | 27.0 | Abbott Alinity (PETINA)            |
|                                                    | µmol/l | 921    | 737                                                    | 1105 | 92.0 | 184  |                                    |
|                                                    | µg/ml  | 130    | 104                                                    | 156  | 13.0 | 26.0 | Abbott Architect (PETINIA)         |
|                                                    | µmol/l | 901    | 721                                                    | 1081 | 90.0 | 180  |                                    |
|                                                    | µg/ml  | 155    | 124                                                    | 186  | 15.5 | 31.0 | Beckman AU Instruments             |
|                                                    | µmol/l | 1076   | 861                                                    | 1291 | 108  | 215  |                                    |
|                                                    | µg/ml  | 152    | 122                                                    | 182  | 15.0 | 30.0 | EMIT                               |
|                                                    | µmol/l | 1051   | 841                                                    | 1261 | 105  | 210  |                                    |
|                                                    | µg/ml  | 149    | 119                                                    | 179  | 15.0 | 30.0 | Ortho Vitros 4600/5600/5.1/XT 7600 |
|                                                    | µmol/l | 1032   | 826                                                    | 1238 | 103  | 206  |                                    |
|                                                    | µg/ml  | 142    | 114                                                    | 170  | 14.0 | 28.0 | Roche Cobas 4000/c311              |
|                                                    | µmol/l | 986    | 789                                                    | 1183 | 98.5 | 197  |                                    |
|                                                    | µg/ml  | 135    | 108                                                    | 162  | 13.5 | 27.0 | Roche Cobas 6000/8000              |
|                                                    | µmol/l | 935    | 748                                                    | 1122 | 93.5 | 187  |                                    |
|                                                    | µg/ml  | 137    | 110                                                    | 164  | 13.5 | 27.0 | Siemens Atellica CH                |
|                                                    | µmol/l | 948    | 758                                                    | 1138 | 95.0 | 190  |                                    |
|                                                    | µg/ml  | 124    | 99.2                                                   | 149  | 12.5 | 25.0 | Siemens Dimension                  |
|                                                    | µmol/l | 859    | 687                                                    | 1031 | 86.0 | 172  |                                    |
|                                                    | µg/ml  | 154    | 123                                                    | 185  | 15.5 | 31.0 | Siemens/DPC Immulite 2000/2500     |
|                                                    | µmol/l | 1068   | 854                                                    | 1282 | 107  | 214  |                                    |

| Method                                             |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |       |      |                                      |
|----------------------------------------------------|--------|--------------------------------------------------------|------|------|-------|------|--------------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |                                                        |      |      |       |      |                                      |
| Size: 12 x 5 ml / 4 x 5 ml                         |        | Range                                                  |      |      |       |      |                                      |
| Analyte                                            | Unit   | Target                                                 | Low  | High | 1SD   | 2SD  | Method                               |
| Vancomycin                                         | µg/ml  | 15.6                                                   | 12.5 | 18.7 | 1.55  | 3.10 | Abbott Architect (CMIA)              |
|                                                    | µmol/l | 10.5                                                   | 8.40 | 12.6 | 1.05  | 2.10 |                                      |
|                                                    | µg/ml  | 15.9                                                   | 12.7 | 19.1 | 1.60  | 3.20 | Abbott Alinity (CMIA)                |
|                                                    | µmol/l | 10.7                                                   | 8.56 | 12.8 | 1.05  | 2.10 |                                      |
|                                                    | µg/ml  | 15.5                                                   | 12.4 | 18.6 | 1.55  | 3.10 | Abbott Alinity (PETINA)              |
|                                                    | µmol/l | 10.4                                                   | 8.32 | 12.5 | 1.05  | 2.10 |                                      |
|                                                    | µg/ml  | 12.7                                                   | 10.2 | 15.2 | 1.25  | 2.50 | Beckman Coulter Synchron LX / Unicel |
|                                                    | µmol/l | 8.52                                                   | 6.82 | 10.2 | 0.840 | 1.68 |                                      |
|                                                    | µg/ml  | 12.8                                                   | 10.2 | 15.4 | 1.30  | 2.60 | EMIT                                 |
|                                                    | µmol/l | 8.64                                                   | 6.91 | 10.4 | 0.880 | 1.76 |                                      |
|                                                    | µg/ml  | 13.2                                                   | 10.6 | 15.8 | 1.30  | 2.60 | Ortho Vitros Microslide Systems      |
|                                                    | µmol/l | 8.89                                                   | 7.11 | 10.7 | 0.905 | 1.81 |                                      |
|                                                    | µg/ml  | 14.0                                                   | 11.2 | 16.8 | 1.40  | 2.80 | Roche Cobas 6000/8000                |
|                                                    | µmol/l | 9.41                                                   | 7.53 | 11.3 | 0.945 | 1.89 |                                      |
|                                                    | µg/ml  | 14.3                                                   | 11.4 | 17.2 | 1.45  | 2.90 | Siemens Atellica CH                  |
|                                                    | µmol/l | 9.63                                                   | 7.70 | 11.6 | 0.985 | 1.97 |                                      |
| Vitamin B12                                        | pg/ml  | 598                                                    | 478  | 718  | 60.0  | 120  | Abbott Alinity i                     |
|                                                    | pmol/l | 441                                                    | 353  | 529  | 44.0  | 88.0 |                                      |
|                                                    | pg/ml  | 659                                                    | 527  | 791  | 66.0  | 132  | Abbott Architect                     |
|                                                    | pmol/l | 486                                                    | 389  | 583  | 48.5  | 97.0 |                                      |
|                                                    | pg/ml  | 644                                                    | 515  | 773  | 64.5  | 129  | Beckman Access/LXi725                |
|                                                    | pmol/l | 475                                                    | 380  | 570  | 47.5  | 95.0 |                                      |
|                                                    | pg/ml  | 654                                                    | 523  | 785  | 65.5  | 131  | Beckman Dxl 600/800                  |
|                                                    | pmol/l | 483                                                    | 386  | 580  | 48.5  | 97.0 |                                      |
|                                                    | pg/ml  | 706                                                    | 565  | 847  | 70.5  | 141  | DiaSorin Liaison XL                  |
|                                                    | pmol/l | 521                                                    | 417  | 625  | 52.0  | 104  |                                      |
|                                                    | pg/ml  | 1083                                                   | 866  | 1300 | 109   | 217  | Lifotronic eCL                       |
|                                                    | pmol/l | 799                                                    | 639  | 959  | 80.0  | 160  |                                      |
|                                                    | pg/ml  | 738                                                    | 590  | 886  | 74.0  | 148  | Ortho Vitros 3600/5600/ECi/XT 7600   |
|                                                    | pmol/l | 545                                                    | 436  | 654  | 54.5  | 109  |                                      |
|                                                    | pg/ml  | 831                                                    | 665  | 997  | 83.0  | 166  | Roche Cobas 4000/e411 Gen II         |
|                                                    | pmol/l | 613                                                    | 490  | 736  | 61.5  | 123  |                                      |
|                                                    | pg/ml  | 776                                                    | 621  | 931  | 77.5  | 155  | Roche Cobas e402/e801 Gen II         |
|                                                    | pmol/l | 573                                                    | 458  | 688  | 57.5  | 115  |                                      |
|                                                    | pg/ml  | 824                                                    | 659  | 989  | 82.5  | 165  | Roche Cobas e601/ 602 Gen II         |
|                                                    | pmol/l | 608                                                    | 486  | 730  | 61.0  | 122  |                                      |
|                                                    | pg/ml  | 833                                                    | 666  | 1000 | 83.5  | 167  | Roche Elecsys                        |
|                                                    | pmol/l | 615                                                    | 492  | 738  | 61.5  | 123  |                                      |

| Method                                             |        |        | Immunoassay Premium Plus - Level 3 (IA PREMIUM PLUS 3) |      |      |                     |                               |
|----------------------------------------------------|--------|--------|--------------------------------------------------------|------|------|---------------------|-------------------------------|
| Lot. No: 2545EC Cat. No: IA3111 Expiry: 2028/07/28 |        |        |                                                        |      |      |                     |                               |
| Size: 12 x 5 ml / 4 x 5 ml                         |        |        | Range                                                  |      |      |                     |                               |
| Analyte                                            | Unit   | Target | Low                                                    | High | 1SD  | 2SD                 | Method                        |
| Vitamin B12                                        | pg/ml  | 859    | 687                                                    | 1031 | 86.0 | 172                 | Shenzhen YHLO iFlash Series   |
|                                                    | pmol/l | 634    | 507                                                    | 761  | 63.5 | 127                 |                               |
|                                                    | pg/ml  | 925    | 740                                                    | 1110 | 92.5 | 185                 | Siemens Atellica IM lot 13290 |
|                                                    | pmol/l | 683    | 546                                                    | 820  | 68.5 | 137                 |                               |
|                                                    | pg/ml  | 950    | 760                                                    | 1140 | 95.0 | 190                 | Siemens Centaur               |
|                                                    | pmol/l | 701    | 561                                                    | 841  | 70.0 | 140                 |                               |
|                                                    | pg/ml  | 715    | 572                                                    | 858  | 71.5 | 143                 | Siemens Dimension             |
|                                                    | pmol/l | 528    | 422                                                    | 634  | 53.0 | 106                 |                               |
|                                                    | pg/ml  | 813    | 650                                                    | 976  | 81.5 | 163                 | Siemens/DPC Immulite 2000     |
|                                                    | pmol/l | 600    | 480                                                    | 720  | 60.0 | 120                 |                               |
|                                                    | pg/ml  | 1037   | 830                                                    | 1244 | 104  | 207                 | TOSOH AIA Series              |
|                                                    | pmol/l | 765    | 612                                                    | 918  | 76.5 | 153                 |                               |
| pg/ml                                              | 776    | 621    | 931                                                    | 77.5 | 155  | Tosoh AIA-CL Series |                               |
| pmol/l                                             | 573    | 458    | 688                                                    | 57.5 | 115  |                     |                               |