

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

|                        |                             |                        |
|------------------------|-----------------------------|------------------------|
| <b>CAT. NO.</b> IA3111 | <b>GTIN:</b> 05055273207279 | <b>SIZE:</b> 12 x 5 ml |
| <b>CAT. NO.</b> IA3112 | <b>GTIN:</b> 05055273207286 | <b>SIZE:</b> 4 x 5 ml  |
| <b>LOT NO.</b> 218IEC  | <b>EXPIRY:</b> 2025-06-28   |                        |

### 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.

- 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.
- Refer to the Control section of the individual analyser application.
- 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

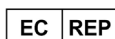
### MATERIAL REQUIRED BUT NOT PROVIDED

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte            | unit          | Target | Range |                               | methods                                 |
|--------------------|---------------|--------|-------|-------------------------------|---|
|                    |               |        | low   | high                          |   |
| 17-OH-Progesterone | nmol/l        | 46.7   | 35.0  | 58.4                          | DRG ELISA                               |
|                    | ng/ml         | 15.5   | 11.6  | 19.4                          |   |
|                    | nmol/l        | 28.8   | 21.6  | 36.0                          | DIAsource RIA                           |
|                    | ng/ml         | 9.53   | 7.15  | 11.9                          |   |
| 25-OH Vitamin D    | nmol/l        | 91.0   | 68.3  | 114                           | Diasorin Liaison                        |
|                    | nmol/l        | 126    | 94.5  | 158                           | Siemens Centaur XP/XPT/Classic          |
|                    | nmol/l        | 79.5   | 59.6  | 99.0                          | Roche Vitamin D Total                   |
|                    | nmol/l        | 91.2   | 68.4  | 114                           | Abbott Architect (3L52)                 |
|                    | nmol/l        | 106    | 79.5  | 133                           | Vitros ECI                              |
|                    | nmol/l        | 82.3   | 61.7  | 103                           | Tosoh Series                            |
|                    | nmol/l        | 86.8   | 65.1  | 109                           | BioMerieux Vidas                        |
|                    | nmol/l        | 82.4   | 61.8  | 103                           | Beckman Dxl 600/800                     |
|                    | nmol/l        | 108    | 81.0  | 135                           | Fujirebio Lumipulse G Series            |
|                    | nmol/l        | 83.3   | 62.5  | 104                           | Beckman Access 25 OH Vitamin D Total    |
|                    | nmol/l        | 89.5   | 67.1  | 112                           | Abbott Architect (5P02)/ Alinity (8P45) |
|                    | nmol/l        | 100    | 75.0  | 125                           | Diasorin Liaison XL                     |
|                    | nmol/l        | 85.8   | 64.4  | 107                           | Roche Vitamin D Total II                |
|                    | nmol/l        | 92.0   | 69.0  | 115                           | Abbott Alinity i                        |
|                    | nmol/l        | 121    | 90.8  | 151                           | Siemens Atellica IM                     |
| nmol/l             | 82.4          | 61.8   | 103   | Roche Vitamin D Total II e801 |   |
| nmol/l             | 77.7          | 58.3   | 97.1  | Roche Vitamin D Total III     |   |
| ACTH               | pmol/l        | 49.9   | 37.4  | 62.4                          | Siemens Immulite 2000/2500              |
|                    | pg/ml         | 227    | 170   | 284                           |   |
|                    | pmol/l        | 59.5   | 44.6  | 74.4                          | Diasorin Liaison XL                     |
|                    | pg/ml         | 270    | 203   | 337                           |   |
|                    | pmol/l        | 33.3   | 25.0  | 41.6                          | Roche Cobas e402/e801                   |
|                    | pg/ml         | 151    | 114   | 188                           |   |
| Aldosterone        | pmol/l        | 49.8   | 37.4  | 62.3                          | Tosoh AIA-CL Series                     |
|                    | pg/ml         | 226    | 170   | 282                           |   |
|                    | pmol/l        | 710    | 533   | 888                           | Immunotech RIA                          |
|                    | pg/ml         | 256    | 192   | 320                           |   |
|                    | pmol/l        | 451    | 338   | 564                           | IDS iSYS                                |
|                    | pg/ml         | 163    | 122   | 204                           |   |
| Alphafoetoprotein  | pmol/l        | 411    | 308   | 514                           | Diasorin Liaison                        |
|                    | pg/ml         | 148    | 111   | 185                           |   |
|                    | pmol/l        | 464    | 348   | 580                           | Diasorin Liaison XL                     |
|                    | pg/ml         | 167    | 126   | 208                           |   |
|                    | KIU/l = IU/ml | 160    | 128   | 192                           | Abbott Architect                        |
|                    | ng/ml         | 194    | 155   | 233                           |   |
| Alphafoetoprotein  | KIU/l = IU/ml | 164    | 131   | 197                           | BioMerieux Vidas                        |
|                    | ng/ml         | 198    | 159   | 237                           |   |
|                    | KIU/l = IU/ml | 183    | 146   | 220                           | Siemens Centaur XP/XPT/Classic          |
|                    | ng/ml         | 221    | 177   | 265                           |   |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte           | unit          | Target | Range |                                | methods                      |
|-------------------|---------------|--------|-------|--------------------------------|------------------------------|
|                   |               |        | low   | high                           |                              |
| Alphafoetoprotein | KIU/l = IU/ml | 157    | 126   | 188                            | Siemens Immulite 2000/2500   |
|                   | ng/ml         | 190    | 152   | 228                            |                              |
|                   | KIU/l = IU/ml | 149    | 119   | 179                            | Beckman Dxl800               |
|                   | ng/ml         | 180    | 144   | 216                            |                              |
|                   | KIU/l = IU/ml | 177    | 142   | 212                            | Roche Elecsys                |
|                   | ng/ml         | 214    | 172   | 256                            |                              |
|                   | KIU/l = IU/ml | 199    | 159   | 239                            | Diasorin Liaison             |
|                   | ng/ml         | 241    | 192   | 290                            |                              |
|                   | KIU/l = IU/ml | 155    | 124   | 186                            | Beckman Access               |
|                   | ng/ml         | 188    | 150   | 226                            |                              |
|                   | KIU/l = IU/ml | 148    | 118   | 178                            | Tosoh Series                 |
|                   | ng/ml         | 179    | 143   | 215                            |                              |
|                   | KIU/l = IU/ml | 162    | 130   | 194                            | Vitros ECi                   |
|                   | ng/ml         | 168    | 134   | 202                            |                              |
|                   | KIU/l = IU/ml | 180    | 144   | 216                            | Roche Cobas e601/602         |
|                   | ng/ml         | 218    | 174   | 262                            |                              |
|                   | KIU/l = IU/ml | 183    | 146   | 220                            | Roche Cobas 4000/E411        |
|                   | ng/ml         | 221    | 177   | 265                            |                              |
|                   | KIU/l = IU/ml | 165    | 132   | 198                            | Fujirebio Lumipulse G Series |
|                   | ng/ml         | 200    | 160   | 240                            |                              |
| KIU/l = IU/ml     | 182           | 146    | 218   | Siemens Centaur CP             |                              |
| ng/ml             | 220           | 177    | 263   |                                |                              |
| KIU/l = IU/ml     | 182           | 146    | 218   | Immunotech IRMA                |                              |
| ng/ml             | 220           | 177    | 263   |                                |                              |
| KIU/l = IU/ml     | 168           | 134    | 202   | Sysmex HISCL Series            |                              |
| ng/ml             | 203           | 162    | 244   |                                |                              |
| KIU/l = IU/ml     | 171           | 137    | 205   | Mindray CL Series              |                              |
| ng/ml             | 207           | 166    | 248   |                                |                              |
| KIU/l = IU/ml     | 189           | 151    | 227   | Diasorin Liaison XL            |                              |
| ng/ml             | 229           | 183    | 275   |                                |                              |
| KIU/l = IU/ml     | 182           | 146    | 218   | Siemens Atellica IM            |                              |
| ng/ml             | 220           | 177    | 263   |                                |                              |
| KIU/l = IU/ml     | 160           | 128    | 192   | Abbott Alinity i               |                              |
| ng/ml             | 194           | 155    | 233   |                                |                              |
| KIU/l = IU/ml     | 170           | 136    | 204   | Roche Cobas e402/e801          |                              |
| ng/ml             | 206           | 165    | 247   |                                |                              |
| KIU/l = IU/ml     | 145           | 116    | 174   | Tosoh AIA-CL Series            |                              |
| ng/ml             | 175           | 140    | 210   |                                |                              |
| Amikacin          | µmol/l        | 22.3   | 17.8  | 26.8                           | EMIT                         |
|                   | µg/ml         | 13.1   | 10.4  | 15.8                           |                              |
|                   | µmol/l        | 23.2   | 18.6  | 27.8                           | Roche Cobas 6000/8000        |
|                   | µg/ml         | 13.6   | 10.9  | 16.3                           |                              |
|                   | µmol/l        | 24.3   | 19.4  | 29.2                           | Abbott Architect             |
|                   | µg/ml         | 14.2   | 11.4  | 17.0                           |                              |
| µmol/l            | 23.6          | 18.9   | 28.3  | Thermo Scientific QMS Amikacin |                              |
| µg/ml             | 13.8          | 11.1   | 16.5  |                                |                              |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte         | unit                 | Target       | Range |                     | methods                        |                  |
|-----------------|----------------------|--------------|-------|---------------------|--------------------------------|------------------|
|                 |                      |              | low   | high                |                                |                  |
| Amikacin        | µmol/l               | 24.4         | 19.5  | 29.3                | Abbott Alinity                 |                  |
|                 | µg/ml                | 14.3         | 11.4  | 17.2                |                                |                  |
|                 | µmol/l               | 24.1         | 19.3  | 28.9                | Gravimetric                    |                  |
|                 | µg/ml                | 14.1         | 11.3  | 16.9                |                                |                  |
| Androstenedione | nmol/l               | 30.0         | 22.5  | 37.5                | Siemens Immulite 2000          |                  |
|                 | ng/ml                | 8.61         | 6.46  | 10.8                |                                |                  |
|                 | nmol/l               | 17.4         | 13.1  | 21.8                | DRG ELISA                      |                  |
|                 | ng/ml                | 4.99         | 3.76  | 6.22                |                                |                  |
|                 | nmol/l               | 17.5         | 13.1  | 21.9                | Diasorin Liaison XL            |                  |
|                 | ng/ml                | 5.02         | 3.76  | 6.28                |                                |                  |
|                 | Beta-2-microglobulin | µg/ml = mg/l | 6.04  | 4.83                | 7.25                           | Abbott Architect |
|                 |                      | µg/ml = mg/l | 6.69  | 5.35                | 8.03                           | BioMerieux Vidas |
| µg/ml = mg/l    |                      | 5.92         | 4.74  | 7.10                | Behring Nephelometer           |                  |
| µg/ml = mg/l    |                      | 5.22         | 4.18  | 6.26                | Siemens Immulite 2000/2500     |                  |
| µg/ml = mg/l    |                      | 5.51         | 4.41  | 6.61                | Siemens Immulite 1000          |                  |
| µg/ml = mg/l    |                      | 5.82         | 4.66  | 6.98                | Roche Cobas 6000/8000          |                  |
| µg/ml = mg/l    |                      | 5.93         | 4.74  | 7.12                | Diasorin Liaison XL            |                  |
| µg/ml = mg/l    |                      | 6.64         | 5.31  | 7.97                | Siemens Atellica CH            |                  |
| µg/ml = mg/l    |                      | 6.10         | 4.88  | 7.32                | Abbott Alinity                 |                  |
| C-Peptide       | nmol/l               | 2.900        | 2.180 | 3.630               | Siemens Immulite 2000/2500     |                  |
|                 | ng/ml                | 8.76         | 6.58  | 10.9                |                                |                  |
|                 | nmol/l               | 3.000        | 2.250 | 3.750               | Roche Elecsys                  |                  |
|                 | ng/ml                | 9.06         | 6.79  | 11.3                |                                |                  |
|                 | nmol/l               | 2.960        | 2.220 | 3.700               | Roche Cobas e601/602           |                  |
|                 | ng/ml                | 8.94         | 6.70  | 11.2                |                                |                  |
|                 | nmol/l               | 3.050        | 2.290 | 3.810               | Diasorin Liaison               |                  |
|                 | ng/ml                | 9.21         | 6.91  | 11.5                |                                |                  |
|                 | nmol/l               | 2.990        | 2.240 | 3.740               | Roche Cobas 4000/E411          |                  |
|                 | ng/ml                | 9.03         | 6.76  | 11.3                |                                |                  |
|                 | nmol/l               | 2.820        | 2.120 | 3.530               | Abbott Architect               |                  |
|                 | ng/ml                | 8.51         | 6.40  | 10.6                |                                |                  |
|                 | nmol/l               | 2.160        | 1.620 | 2.700               | Siemens Centaur XP/XPT/Classic |                  |
|                 | ng/ml                | 6.52         | 4.89  | 8.15                |                                |                  |
|                 | nmol/l               | 2.730        | 2.050 | 3.410               | Tosoh Series                   |                  |
|                 | ng/ml                | 8.24         | 6.19  | 10.3                |                                |                  |
|                 | nmol/l               | 3.270        | 2.450 | 4.090               | Diasorin Liaison XL            |                  |
|                 | ng/ml                | 9.87         | 7.40  | 12.3                |                                |                  |
|                 | nmol/l               | 2.860        | 2.150 | 3.580               | Roche Cobas e402/e801          |                  |
| ng/ml           | 8.63                 | 6.49         | 10.8  |                     |                                |                  |
| nmol/l          | 1.950                | 1.460        | 2.440 | Siemens Atellica IM |                                |                  |
| ng/ml           | 5.89                 | 4.41         | 7.37  |                     |                                |                  |
| nmol/l          | 2.860                | 2.150        | 3.580 | Vitros ECI          |                                |                  |
| ng/ml           | 8.63                 | 6.49         | 10.8  |                     |                                |                  |
| nmol/l          | 3.000                | 2.250        | 3.750 | Tosoh AIA-CL Series |                                |                  |
| ng/ml           | 9.06                 | 6.79         | 11.3  |                     |                                |                  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte   | unit   | Target | Range |                           | methods  |
|-----------|--------|--------|-------|---------------------------|--|
|           |        |        | low   | high                      |  |
| C-Peptide | nmol/l | 2.730  | 2.050 | 3.410                     | Abbott Alinity i                                 |
|           | ng/ml  | 8.24   | 6.19  | 10.3                      |  |
| CA 15-3   | U/ml   | 78.1   | 62.5  | 93.7                      | Abbott Architect                                 |
|           | U/ml   | 68.1   | 54.5  | 81.7                      | BioMerieux Vidas                                 |
|           | U/ml   | 69.7   | 55.8  | 83.6                      | Siemens Centaur XP/XPT/Classic                   |
|           | U/ml   | 67.8   | 54.2  | 81.4                      | Siemens Immulite 2000/2500                       |
|           | U/ml   | 32.4   | 25.9  | 38.9                      | Beckman Dxl800                                   |
|           | U/ml   | 76.7   | 61.4  | 92.0                      | Roche Elecsys                                    |
|           | U/ml   | 31.9   | 25.5  | 38.3                      | Beckman Access                                   |
|           | U/ml   | 75.8   | 60.6  | 91.0                      | Tosoh Series                                     |
|           | U/ml   | 64.2   | 51.4  | 77.0                      | Vitros ECi                                       |
|           | U/ml   | 78.4   | 62.7  | 94.1                      | Roche Cobas e601/602                             |
|           | U/ml   | 78.6   | 62.9  | 94.3                      | Immunotech IRMA                                  |
|           | U/ml   | 77.9   | 62.3  | 93.5                      | Roche Cobas 4000/E411                            |
|           | U/ml   | 85.3   | 68.2  | 102                       | Fujirebio Lumipulse G Series                     |
|           | U/ml   | 68.3   | 54.6  | 82.0                      | Siemens Centaur CP                               |
|           | U/ml   | 35.7   | 28.6  | 42.8                      | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|           | U/ml   | 73.2   | 58.6  | 87.8                      | Diasorin Liaison XL                              |
|           | U/ml   | 72.1   | 57.7  | 86.5                      | Siemens Atellica IM                              |
|           | U/ml   | 74.3   | 59.4  | 89.2                      | Roche Cobas e402/e801                            |
| U/ml      | 76.4   | 61.1   | 91.7  | Abbott Alinity i          |  |
| CA 19-9   | U/ml   | 289    | 231   | 347                       | BioMerieux Vidas                                 |
|           | U/ml   | 351    | 281   | 421                       | Siemens Centaur XP/XPT/Classic                   |
|           | U/ml   | 359    | 287   | 431                       | Siemens Immulite 2000/2500                       |
|           | U/ml   | 357    | 286   | 428                       | Beckman Dxl800                                   |
|           | U/ml   | 165    | 132   | 198                       | Roche Elecsys                                    |
|           | U/ml   | 335    | 268   | 402                       | Diasorin Liaison                                 |
|           | U/ml   | 396    | 317   | 475                       | Beckman Access                                   |
|           | U/ml   | 124    | 99.0  | 149                       | Tosoh Series                                     |
|           | U/ml   | 346    | 277   | 415                       | Vitros ECi                                       |
|           | U/ml   | 541    | 433   | 649                       | Abbott Architect XR/XR2/XRL                      |
|           | U/ml   | 165    | 132   | 198                       | Roche Cobas e601/602                             |
|           | U/ml   | 168    | 134   | 202                       | Roche Cobas 4000/E411                            |
|           | U/ml   | 345    | 276   | 414                       | Fujirebio Lumipulse G Series                     |
|           | U/ml   | 194    | 155   | 233                       | Izotop RIA                                       |
|           | U/ml   | 262    | 210   | 314                       | Siemens Centaur CP                               |
|           | U/ml   | 76.1   | 60.9  | 91.3                      | Immunotech IRMA                                  |
|           | U/ml   | 158    | 126   | 190                       | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|           | U/ml   | 322    | 258   | 386                       | Diasorin Liaison XL                              |
| U/ml      | 372    | 298    | 446   | Siemens Atellica IM       |  |
| U/ml      | 164    | 131    | 197   | Roche Cobas e402/e801     |  |
| U/ml      | 548    | 438    | 658   | Abbott Alinity XR/XR2/XRL |  |
| CA125     | U/ml   | 240    | 192   | 288                       | Abbott Architect                                 |
|           | U/ml   | 191    | 153   | 229                       | BioMerieux Vidas                                 |
|           | U/ml   | 194    | 155   | 233                       | Siemens Centaur XP/XPT/Classic OV Kit            |
|           | U/ml   | 199    | 159   | 239                       | Siemens Centaur XP/XPT/Classic CA125 II kit      |

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Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte                        | unit         | Target | Range |                         | methods  |
|--------------------------------|--------------|--------|-------|-------------------------|--|
|                                |              |        | low   | high                    |  |
| CA125                          | U/ml         | 163    | 130   | 196                     | Siemens Immulite 2000/2500                       |
|                                | U/ml         | 186    | 149   | 223                     | Siemens Immulite 1000                            |
|                                | U/ml         | 155    | 124   | 186                     | Beckman Dxl800                                   |
|                                | U/ml         | 176    | 141   | 211                     | Roche Elecsys                                    |
|                                | U/ml         | 155    | 124   | 186                     | Beckman Access                                   |
|                                | U/ml         | 338    | 270   | 406                     | Tosoh Series                                     |
|                                | U/ml         | 179    | 143   | 215                     | Vitros ECi                                       |
|                                | U/ml         | 182    | 146   | 218                     | Roche Cobas 4000/E411                            |
|                                | U/ml         | 182    | 146   | 218                     | Roche Cobas e601/602                             |
|                                | U/ml         | 94.5   | 75.6  | 113                     | Immunotech IRMA                                  |
|                                | U/ml         | 155    | 124   | 186                     | Fujirebio Lumipulse G Series                     |
|                                | U/ml         | 194    | 155   | 233                     | Siemens Centaur CP CA125 II kit                  |
|                                | U/ml         | 289    | 231   | 347                     | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|                                | U/ml         | 233    | 186   | 280                     | Diasorin Liaison XL                              |
|                                | U/ml         | 215    | 172   | 258                     | Siemens Atellica IM                              |
|                                | U/ml         | 169    | 135   | 203                     | Roche Cobas e402/e801                            |
| U/ml                           | 245          | 196    | 294   | Abbott Alinity i        |  |
| Carbamazepine                  | µmol/l       | 70.0   | 56.0  | 84.0                    | Abbott Architect (CMIA)                          |
|                                | µg/ml        | 16.5   | 13.2  | 19.8                    |  |
|                                | µmol/l       | 71.7   | 57.4  | 86.0                    | Siemens Centaur XP/XPT/Classic                   |
|                                | µg/ml        | 16.9   | 13.6  | 20.2                    |  |
|                                | µmol/l       | 66.2   | 53.0  | 79.4                    | Siemens Dimension                                |
|                                | µg/ml        | 15.6   | 12.5  | 18.7                    |  |
|                                | µmol/l       | 58.8   | 47.0  | 70.6                    | Siemens Immulite 2000/2500                       |
|                                | µg/ml        | 13.9   | 11.1  | 16.7                    |  |
|                                | µmol/l       | 75.3   | 60.2  | 90.4                    | Roche Integra                                    |
|                                | µg/ml        | 17.8   | 14.2  | 21.4                    |  |
|                                | µmol/l       | 70.3   | 56.2  | 84.4                    | Roche Cobas 6000/8000                            |
|                                | µg/ml        | 16.6   | 13.3  | 19.9                    |  |
|                                | µmol/l       | 71.4   | 57.1  | 85.7                    | Beckman AU400/600/640/2700/5400                  |
|                                | µg/ml        | 16.9   | 13.5  | 20.3                    |  |
|                                | µmol/l       | 52.2   | 41.8  | 62.6                    | Abbott Architect (PETINA)                        |
|                                | µg/ml        | 12.3   | 9.88  | 14.7                    |  |
|                                | µmol/l       | 65.6   | 52.5  | 78.7                    | Siemens Atellica CH                              |
|                                | µg/ml        | 15.5   | 12.4  | 18.6                    |  |
| µmol/l                         | 51.5         | 41.2   | 61.8  | Abbott Alinity (PETINA) |  |
| µg/ml                          | 12.2         | 9.74   | 14.7  |                         |  |
| µmol/l                         | 72.2         | 57.8   | 86.6  | Gravimetric             |  |
| µg/ml                          | 17.1         | 13.7   | 20.5  |                         |  |
| Carcinoembryonic Antigen (CEA) | ng/ml = µg/l | 70.6   | 56.5  | 84.7                    | Abbott Architect                                 |
|                                | ng/ml = µg/l | 63.3   | 50.6  | 76.0                    | BioMerieux Vidas                                 |
|                                | ng/ml = µg/l | 59.1   | 47.3  | 70.9                    | Siemens Centaur XP/XPT/Classic                   |
|                                | ng/ml = µg/l | 86.8   | 69.4  | 104                     | Siemens Immulite 2000/2500                       |
|                                | ng/ml = µg/l | 79.0   | 63.2  | 94.8                    | Siemens Immulite 1000                            |
|                                | ng/ml = µg/l | 57.4   | 45.9  | 68.9                    | Beckman Dxl800                                   |
| ng/ml = µg/l                   | 48.9         | 39.1   | 58.7  | Roche Elecsys           |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte                        | unit         | Target | Range |                              | methods  |
|--------------------------------|--------------|--------|-------|------------------------------|--|
|                                |              |        | low   | high                         |  |
| Carcinoembryonic Antigen (CEA) | ng/ml = µg/l | 58.9   | 47.1  | 70.7                         | Beckman Access                                   |
|                                | ng/ml = µg/l | 78.6   | 62.9  | 94.3                         | Tosoh Series                                     |
|                                | ng/ml = µg/l | 63.2   | 50.6  | 75.8                         | Vitros ECI                                       |
|                                | ng/ml = µg/l | 50.0   | 40.0  | 60.0                         | Roche Cobas e601/602                             |
|                                | ng/ml = µg/l | 58.1   | 46.5  | 69.7                         | Immunotech IRMA                                  |
|                                | ng/ml = µg/l | 50.1   | 40.1  | 60.1                         | Roche Cobas 4000/E411                            |
|                                | ng/ml = µg/l | 83.8   | 67.0  | 101                          | Fujirebio Lumipulse G Series                     |
|                                | ng/ml = µg/l | 77.2   | 61.8  | 92.6                         | Boditech Med Inc i-CHROMA                        |
|                                | ng/ml = µg/l | 63.2   | 50.6  | 75.8                         | Siemens Centaur CP                               |
|                                | ng/ml = µg/l | 62.7   | 50.2  | 75.2                         | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|                                | ng/ml = µg/l | 67.5   | 54.0  | 81.0                         | Diasorin Liaison XL                              |
|                                | ng/ml = µg/l | 58.9   | 47.1  | 70.7                         | Siemens Atellica IM                              |
|                                | ng/ml = µg/l | 50.8   | 40.6  | 61.0                         | Roche Cobas e402/e801                            |
|                                | ng/ml = µg/l | 69.8   | 55.8  | 83.8                         | Abbott Alinity i                                 |
| Cortisol                       | nmol/l       | 904    | 678   | 1130                         | Abbott Architect                                 |
|                                | µg/dl        | 32.5   | 24.4  | 40.6                         |  |
|                                | nmol/l       | 958    | 719   | 1198                         | BioMerieux Vidas                                 |
|                                | µg/dl        | 34.5   | 25.9  | 43.1                         |  |
|                                | nmol/l       | 1149   | 862   | 1436                         | Siemens Centaur XP/XPT/Classic                   |
|                                | µg/dl        | 41.4   | 31.0  | 51.8                         |  |
|                                | nmol/l       | 899    | 674   | 1124                         | Siemens Immulite 2000/2500                       |
|                                | µg/dl        | 32.4   | 24.3  | 40.5                         |  |
|                                | nmol/l       | 999    | 749   | 1249                         | Siemens Immulite 1000                            |
|                                | µg/dl        | 36.0   | 27.0  | 45.0                         |  |
|                                | nmol/l       | 1033   | 775   | 1291                         | Beckman Dxl800                                   |
|                                | µg/dl        | 37.2   | 27.9  | 46.5                         |  |
|                                | nmol/l       | 975    | 731   | 1219                         | Roche Elecsys                                    |
|                                | µg/dl        | 35.1   | 26.3  | 43.9                         |  |
|                                | nmol/l       | 1119   | 839   | 1399                         | Beckman Access                                   |
|                                | µg/dl        | 40.3   | 30.2  | 50.4                         |  |
|                                | nmol/l       | 1070   | 803   | 1338                         | Tosoh Series                                     |
|                                | µg/dl        | 38.5   | 28.9  | 48.1                         |  |
|                                | nmol/l       | 922    | 692   | 1153                         | Vitros ECI                                       |
|                                | µg/dl        | 33.2   | 24.9  | 41.5                         |  |
| nmol/l                         | 1005         | 754    | 1256  | Roche Cobas e601/602         |  |
| µg/dl                          | 36.2         | 27.1   | 45.3  |                              |  |
| nmol/l                         | 1051         | 788    | 1314  | Roche Cobas 4000/E411        |  |
| µg/dl                          | 37.8         | 28.4   | 47.2  |                              |  |
| nmol/l                         | 1034         | 776    | 1293  | Immunotech RIA               |  |
| µg/dl                          | 37.2         | 27.9   | 46.5  |                              |  |
| nmol/l                         | 1359         | 1019   | 1699  | Siemens Centaur CP           |  |
| µg/dl                          | 48.9         | 36.7   | 61.1  |                              |  |
| nmol/l                         | 1049         | 787    | 1311  | Roche Cobas 4000/e411 Gen II |  |
| µg/dl                          | 37.8         | 28.3   | 47.3  |                              |  |
| nmol/l                         | 994          | 746    | 1243  | Roche Cobas e601/602 Gen II  |  |
| µg/dl                          | 35.8         | 26.9   | 44.7  |                              |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte  | unit   | Target | Range |                           | methods                         |
|----------|--------|--------|-------|---------------------------|---------------------------------|
|          |        |        | low   | high                      |                                 |
| Cortisol | nmol/l | 1039   | 779   | 1299                      | Roche Elecsys Gen II            |
|          | µg/dl  | 37.4   | 28.0  | 46.8                      |                                 |
|          | nmol/l | 1134   | 851   | 1418                      | Diasorin Liaison XL             |
|          | µg/dl  | 40.8   | 30.6  | 51.0                      |                                 |
|          | nmol/l | 1217   | 913   | 1521                      | Siemens Atellica IM             |
|          | µg/dl  | 43.8   | 32.9  | 54.7                      |                                 |
|          | nmol/l | 985    | 739   | 1231                      | Roche Cobas e402/e801           |
|          | µg/dl  | 35.5   | 26.6  | 44.4                      |                                 |
| DHEA-S   | nmol/l | 1086   | 815   | 1358                      | Tosoh AIA-CL Series             |
|          | µg/dl  | 39.1   | 29.3  | 48.9                      |                                 |
|          | nmol/l | 897    | 673   | 1121                      | Abbott Alinity i                |
|          | µg/dl  | 32.3   | 24.2  | 40.4                      |                                 |
|          | µmol/l | 20.8   | 16.6  | 25.0                      | Abbott Architect                |
|          | µmol/l | 18.0   | 14.4  | 21.6                      | Siemens Immulite 2000/2500      |
|          | µmol/l | 18.8   | 15.0  | 22.6                      | Siemens Immulite 1000           |
|          | µmol/l | 17.1   | 13.7  | 20.5                      | Beckman Dxl800                  |
|          | µmol/l | 19.6   | 15.7  | 23.5                      | Beckman Access                  |
|          | µmol/l | 17.3   | 13.8  | 20.8                      | Siemens Centaur XP/XPT/Classic  |
|          | µmol/l | 26.4   | 21.1  | 31.7                      | Roche Cobas 4000/E411           |
| Digoxin  | µmol/l | 25.8   | 20.6  | 31.0                      | Roche Cobas e601/602            |
|          | µmol/l | 17.3   | 13.8  | 20.8                      | Diasorin Liaison XL             |
|          | µmol/l | 16.0   | 12.8  | 19.2                      | Siemens Atellica IM             |
|          | µmol/l | 26.0   | 20.8  | 31.2                      | Roche Cobas e402/e801           |
|          | µmol/l | 21.3   | 17.0  | 25.6                      | Abbott Alinity i                |
|          | nmol/l | 4.05   | 3.24  | 4.86                      | Abbott Architect (CMIA)         |
|          | ng/ml  | 3.16   | 2.53  | 3.79                      |                                 |
|          | nmol/l | 4.62   | 3.70  | 5.54                      | BioMerieux Vidas                |
|          | ng/ml  | 3.61   | 2.89  | 4.33                      |                                 |
|          | nmol/l | 5.50   | 4.40  | 6.60                      | Siemens Centaur XP/XPT/Classic  |
|          | ng/ml  | 4.30   | 3.44  | 5.16                      |                                 |
|          | nmol/l | 5.00   | 4.00  | 6.00                      | Siemens Dimension               |
|          | ng/ml  | 3.91   | 3.12  | 4.70                      |                                 |
|          | nmol/l | 4.93   | 3.94  | 5.92                      | Beckman Dxl800                  |
|          | ng/ml  | 3.85   | 3.08  | 4.62                      |                                 |
|          | nmol/l | 4.89   | 3.91  | 5.87                      | Roche Cobas e601/602            |
|          | ng/ml  | 3.82   | 3.05  | 4.59                      |                                 |
|          | nmol/l | 5.22   | 4.18  | 6.26                      | Beckman AU400/600/640/2700/5400 |
|          | ng/ml  | 4.08   | 3.26  | 4.90                      |                                 |
|          | nmol/l | 5.13   | 4.10  | 6.16                      | Roche Cobas 4000/E411           |
| ng/ml    | 4.01   | 3.20   | 4.82  |                           |                                 |
| nmol/l   | 4.69   | 3.75   | 5.63  | Abbott Architect (PETINA) |                                 |
| ng/ml    | 3.66   | 2.93   | 4.39  |                           |                                 |
| nmol/l   | 4.72   | 3.78   | 5.66  | Roche Cobas e402/e801     |                                 |
| ng/ml    | 3.69   | 2.95   | 4.43  |                           |                                 |
| nmol/l   | 6.18   | 4.94   | 7.42  | Siemens Atellica IM       |                                 |
| ng/ml    | 4.83   | 3.86   | 5.80  |                           |                                 |



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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte      | unit         | Target | Range |                       | methods                                       |
|--------------|--------------|--------|-------|-----------------------|---|
|              |              |        | low   | high                  |   |
| Digoxin      | nmol/l       | 4.66   | 3.73  | 5.59                  | Siemens Atellica CH                           |
|              | ng/ml        | 3.64   | 2.91  | 4.37                  |   |
|              | nmol/l       | 4.66   | 3.73  | 5.59                  | Abbott Alinity (CMIA)                         |
|              | ng/ml        | 3.64   | 2.91  | 4.37                  |   |
|              | nmol/l       | 4.80   | 3.84  | 5.76                  | Abbott Alinity (PETINA)                       |
|              | ng/ml        | 3.75   | 3.00  | 4.50                  |   |
| Ethosuximide | µmol/l       | 493    | 395   | 592                   | Gravimetric                                   |
|              | µg/ml        | 70.0   | 56.0  | 83.9                  |   |
| Ferritin     | ng/ml = µg/l | 343    | 274   | 412                   | Abbott Architect                              |
|              | ng/ml = µg/l | 237    | 190   | 284                   | BioMerieux Vidas                              |
|              | ng/ml = µg/l | 243    | 194   | 292                   | Siemens Centaur XP/XPT/Classic                |
|              | ng/ml = µg/l | 292    | 234   | 350                   | Siemens Dimension                             |
|              | ng/ml = µg/l | 275    | 220   | 330                   | Siemens Immulite 2000/2500                    |
|              | ng/ml = µg/l | 226    | 181   | 271                   | Siemens Immulite 1000                         |
|              | ng/ml = µg/l | 217    | 174   | 260                   | Beckman Dxl800                                |
|              | ng/ml = µg/l | 325    | 260   | 390                   | Roche Elecsys/Cobas e411                      |
|              | ng/ml = µg/l | 334    | 267   | 401                   | Diasorin Liaison                              |
|              | ng/ml = µg/l | 318    | 254   | 382                   | Roche Modular E170 / Roche Cobas e601/602     |
|              | ng/ml = µg/l | 221    | 177   | 265                   | Beckman Access                                |
|              | ng/ml = µg/l | 225    | 180   | 270                   | Tosoh Series                                  |
|              | ng/ml = µg/l | 197    | 158   | 236                   | Vitros ECi                                    |
|              | ng/ml = µg/l | 311    | 249   | 373                   | Roche Cobas 4000/c311                         |
|              | ng/ml = µg/l | 259    | 207   | 311                   | Beckman AU400/600/640/2700/5400               |
|              | ng/ml = µg/l | 298    | 238   | 358                   | Roche Cobas c501/502/503/701/702              |
|              | ng/ml = µg/l | 234    | 187   | 281                   | Siemens Centaur CP                            |
|              | ng/ml = µg/l | 323    | 258   | 388                   | Diasorin Liaison XL                           |
| ng/ml = µg/l | 351          | 281    | 421   | Abbott Alinity i      |   |
| ng/ml = µg/l | 227          | 182    | 272   | Siemens Atellica IM   |   |
| ng/ml = µg/l | 313          | 250    | 376   | Roche Cobas e402/e801 |   |
| Folate       | nmol/l       | 17.0   | 12.9  | 21.1                  | Abbott Architect                              |
|              | ng/ml        | 7.50   | 5.69  | 9.31                  |   |
|              | nmol/l       | 40.5   | 30.8  | 50.2                  | Siemens Centaur XP/XPT/Classic (enhanced kit) |
|              | ng/ml        | 17.9   | 13.6  | 22.2                  |   |
|              | nmol/l       | 14.5   | 11.0  | 18.0                  | Siemens Immulite 2000                         |
|              | ng/ml        | 6.39   | 4.85  | 7.93                  |   |
|              | nmol/l       | 19.9   | 15.1  | 24.7                  | Beckman Dxl 600 / 800 - A14208                |
|              | ng/ml        | 8.78   | 6.66  | 10.9                  |   |
|              | nmol/l       | 20.4   | 15.5  | 25.3                  | Beckman Access                                |
|              | ng/ml        | 9.00   | 6.84  | 11.2                  |   |
|              | nmol/l       | 31.0   | 23.6  | 38.4                  | Tosoh Series                                  |
|              | ng/ml        | 13.7   | 10.4  | 17.0                  |   |
|              | nmol/l       | 12.8   | 9.73  | 15.9                  | Vitros ECi                                    |
|              | ng/ml        | 5.64   | 4.29  | 6.99                  |   |
| nmol/l       | 11.0         | 8.36   | 13.6  | Siemens Dimension     |   |
| ng/ml        | 4.85         | 3.69   | 6.01  |                       |   |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte | unit   | Target | Range |                | methods                               |
|---------|--------|--------|-------|----------------|---------------------------------------|
|         |        |        | low   | high           |                                       |
| Folate  | nmol/l | 20.3   | 15.4  | 25.2           | Beckman Dxl 600 / 800 - A98032        |
|         | ng/ml  | 8.95   | 6.79  | 11.1           |                                       |
|         | nmol/l | 21.0   | 16.0  | 26.0           | Roche Folate III - 04476433           |
|         | ng/ml  | 9.26   | 7.06  | 11.5           |                                       |
|         | nmol/l | 21.4   | 16.3  | 26.5           | Roche Elecsys Folate                  |
|         | ng/ml  | 9.44   | 7.19  | 11.7           |                                       |
|         | nmol/l | 21.2   | 16.1  | 26.3           | Roche Folate III - 07559992           |
|         | ng/ml  | 9.35   | 7.10  | 11.6           |                                       |
|         | nmol/l | 35.8   | 27.2  | 44.4           | Siemens Atellica IM                   |
|         | ng/ml  | 15.8   | 12.0  | 19.6           |                                       |
|         | nmol/l | 18.4   | 14.0  | 22.8           | Abbott Alinity i                      |
|         | ng/ml  | 8.11   | 6.17  | 10.1           |                                       |
|         | nmol/l | 22.1   | 16.8  | 27.4           | Roche Folate 07027290 e801            |
|         | ng/ml  | 9.75   | 7.41  | 12.1           |                                       |
| Free T3 | pmol/l | 24.8   | 18.6  | 31.0           | Abbott Architect, 2 point calibration |
|         | ng/dl  | 1.61   | 1.21  | 2.01           |                                       |
|         | pg/ml  | 16.1   | 12.1  | 20.1           |                                       |
|         | pmol/l | 23.5   | 17.6  | 29.4           | BioMerieux Vidas                      |
|         | ng/dl  | 1.53   | 1.14  | 1.92           |                                       |
|         | pg/ml  | 15.3   | 11.5  | 19.1           |                                       |
|         | pmol/l | 23.5   | 17.6  | 29.4           | Siemens Centaur XP/XPT/Classic        |
|         | ng/dl  | 1.53   | 1.14  | 1.92           |                                       |
|         | pg/ml  | 15.3   | 11.5  | 19.1           |                                       |
|         | pmol/l | 14.8   | 11.1  | 18.5           | Siemens Immulite 2000/2500            |
|         | ng/dl  | 0.962  | 0.722 | 1.20           |                                       |
|         | pg/ml  | 9.63   | 7.23  | 12.0           |                                       |
|         | pmol/l | 15.3   | 11.5  | 19.1           | Siemens Immulite 1000                 |
|         | ng/dl  | 0.995  | 0.748 | 1.24           |                                       |
|         | pg/ml  | 9.96   | 7.49  | 12.4           |                                       |
|         | pmol/l | 16.4   | 12.3  | 20.5           | Beckman Dxl800                        |
|         | ng/dl  | 1.07   | 0.800 | 1.34           |                                       |
|         | pg/ml  | 10.7   | 8.01  | 13.4           |                                       |
|         | pmol/l | 28.3   | 21.2  | 35.4           | Roche Elecsys                         |
|         | ng/dl  | 1.84   | 1.38  | 2.30           |                                       |
|         | pg/ml  | 18.4   | 13.8  | 23.0           |                                       |
|         | pmol/l | 32.7   | 24.5  | 40.9           | Diasorin Liaison                      |
|         | ng/dl  | 2.13   | 1.59  | 2.67           |                                       |
|         | pg/ml  | 21.3   | 15.9  | 26.7           |                                       |
| pmol/l  | 18.1   | 13.6   | 22.6  | Beckman Access |                                       |
| ng/dl   | 1.18   | 0.884  | 1.48  |                |                                       |
| pg/ml   | 11.8   | 8.85   | 14.8  |                |                                       |
| pmol/l  | 36.8   | 27.6   | 46.0  | Tosoh Series   |                                       |
| ng/dl   | 2.39   | 1.79   | 2.99  |                |                                       |
| pg/ml   | 24.0   | 18.0   | 30.0  |                |                                       |
| pmol/l  | 35.0   | 26.3   | 43.8  | Vitros ECi     |                                       |
| ng/dl   | 2.28   | 1.71   | 2.85  |                |                                       |
| pg/ml   | 22.8   | 17.1   | 28.5  |                |                                       |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte | unit   | Target | Range |                                       | methods  |
|---------|--------|--------|-------|---------------------------------------|--|
|         |        |        | low   | high                                  |  |
| Free T3 | pmol/l | 28.5   | 21.4  | 35.6                                  | Roche Cobas 4000/E411                            |
|         | ng/dl  | 1.85   | 1.39  | 2.31                                  |  |
|         | pg/ml  | 18.6   | 13.9  | 23.3                                  |  |
|         | pmol/l | 28.7   | 21.5  | 35.9                                  | Roche Cobas e601/602                             |
|         | ng/dl  | 1.87   | 1.40  | 2.34                                  |  |
|         | pg/ml  | 18.7   | 14.0  | 23.4                                  |  |
|         | pmol/l | 27.3   | 20.5  | 34.1                                  | Fujirebio Lumipulse G Series                     |
|         | ng/dl  | 1.77   | 1.33  | 2.21                                  |  |
|         | pg/ml  | 17.8   | 13.3  | 22.3                                  |  |
|         | pmol/l | 24.5   | 18.4  | 30.6                                  | Siemens Centaur CP                               |
|         | ng/dl  | 1.59   | 1.20  | 1.98                                  |  |
|         | pg/ml  | 15.9   | 12.0  | 19.8                                  |  |
|         | pmol/l | 23.1   | 17.3  | 28.9                                  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|         | ng/dl  | 1.50   | 1.12  | 1.88                                  |  |
|         | pg/ml  | 15.0   | 11.3  | 18.7                                  |  |
|         | pmol/l | 25.6   | 19.2  | 32.0                                  | Sysmex HISCL Series                              |
|         | ng/dl  | 1.66   | 1.25  | 2.07                                  |  |
|         | pg/ml  | 16.7   | 12.5  | 20.9                                  |  |
|         | pmol/l | 34.3   | 25.7  | 42.9                                  | Diasorin Liaison XL                              |
|         | ng/dl  | 2.23   | 1.67  | 2.79                                  |  |
|         | pg/ml  | 22.3   | 16.7  | 27.9                                  |  |
|         | pmol/l | 26.2   | 19.7  | 32.8                                  | Siemens Atellica IM                              |
|         | ng/dl  | 1.70   | 1.28  | 2.12                                  |  |
|         | pg/ml  | 17.1   | 12.8  | 21.4                                  |  |
| pmol/l  | 25.3   | 19.0   | 31.6  | Abbott Alinity, 2 point cal           |  |
| ng/dl   | 1.64   | 1.24   | 2.04  |                                       |  |
| pg/ml   | 16.5   | 12.4   | 20.6  |                                       |  |
| pmol/l  | 24.8   | 18.6   | 31.0  | Abbott Architect, 6 point calibration |  |
| ng/dl   | 1.61   | 1.21   | 2.01  |                                       |  |
| pg/ml   | 16.1   | 12.1   | 20.1  |                                       |  |
| pmol/l  | 28.2   | 21.2   | 35.3  | Roche Cobas e402/e801                 |  |
| ng/dl   | 1.83   | 1.38   | 2.28  |                                       |  |
| pg/ml   | 18.4   | 13.8   | 23.0  |                                       |  |
| pmol/l  | 27.4   | 20.6   | 34.3  | Tosoh AIA-CL Series                   |  |
| ng/dl   | 1.78   | 1.34   | 2.22  |                                       |  |
| pg/ml   | 17.8   | 13.4   | 22.2  |                                       |  |
| pmol/l  | 25.2   | 18.9   | 31.5  | Abbott Alinity, 6 point cal           |  |
| ng/dl   | 1.64   | 1.23   | 2.05  |                                       |  |
| pg/ml   | 16.4   | 12.3   | 20.5  |                                       |  |
| Free T4 | pmol/l | 50.5   | 37.9  | 63.1                                  | Abbott Architect                                 |
|         | ng/dl  | 3.94   | 2.96  | 4.92                                  |  |
|         | pg/ml  | 39.4   | 29.6  | 49.2                                  |  |
|         | pmol/l | 51.5   | 38.6  | 64.4                                  | Siemens Centaur XP/XPT/Classic                   |
|         | ng/dl  | 4.02   | 3.01  | 5.03                                  |  |
| pg/ml   | 40.2   | 30.1   | 50.3  |                                       |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte | unit   | Target | Range |                              | methods                    |
|---------|--------|--------|-------|------------------------------|----------------------------|
|         |        |        | low   | high                         |                            |
| Free T4 | pmol/l | 73.2   | 54.9  | 91.5                         | Siemens Immulite 2000/2500 |
|         | ng/dl  | 5.71   | 4.28  | 7.14                         |                            |
|         | pg/ml  | 57.1   | 42.8  | 71.4                         |                            |
|         | pmol/l | 73.5   | 55.1  | 91.9                         | Siemens Immulite 1000      |
|         | ng/dl  | 5.73   | 4.30  | 7.16                         |                            |
|         | pg/ml  | 57.3   | 43.0  | 71.6                         |                            |
|         | pmol/l | 58.4   | 43.8  | 73.0                         | Beckman Dxl800             |
|         | ng/dl  | 4.56   | 3.42  | 5.70                         |                            |
|         | pg/ml  | 45.6   | 34.2  | 57.0                         |                            |
|         | pmol/l | 71.2   | 53.4  | 89.0                         | Roche Elecsys              |
|         | ng/dl  | 5.55   | 4.17  | 6.93                         |                            |
|         | pg/ml  | 55.5   | 41.7  | 69.3                         |                            |
|         | pmol/l | 100    | 75.0  | 125                          | Diasorin Liaison           |
|         | ng/dl  | 7.80   | 5.85  | 9.75                         |                            |
|         | pg/ml  | 78.0   | 58.5  | 97.5                         |                            |
|         | pmol/l | 54.8   | 41.1  | 68.5                         | Beckman Access             |
|         | ng/dl  | 4.27   | 3.21  | 5.33                         |                            |
|         | pg/ml  | 42.7   | 32.1  | 53.3                         |                            |
|         | pmol/l | 73.3   | 55.0  | 91.6                         | Tosoh Series               |
|         | ng/dl  | 5.72   | 4.29  | 7.15                         |                            |
|         | pg/ml  | 57.2   | 42.9  | 71.5                         |                            |
|         | pmol/l | 89.8   | 67.4  | 112                          | Vitros ECi                 |
|         | ng/dl  | 7.00   | 5.26  | 8.74                         |                            |
|         | pg/ml  | 70.0   | 52.6  | 87.4                         |                            |
|         | pmol/l | 73.6   | 55.2  | 92.0                         | BioMerieux Vidas           |
|         | ng/dl  | 5.74   | 4.31  | 7.17                         |                            |
|         | pg/ml  | 57.4   | 43.1  | 71.7                         |                            |
|         | pmol/l | 74.3   | 55.7  | 92.9                         | Roche Cobas e601/602       |
|         | ng/dl  | 5.80   | 4.34  | 7.26                         |                            |
|         | pg/ml  | 58.0   | 43.4  | 72.6                         |                            |
| pmol/l  | 72.2   | 54.2   | 90.3  | Roche Cobas 4000/E411        |                            |
| ng/dl   | 5.63   | 4.23   | 7.03  |                              |                            |
| pg/ml   | 56.3   | 42.3   | 70.3  |                              |                            |
| pmol/l  | 76.9   | 57.7   | 96.1  | Biomerieux Vidas FT4N Kit    |                            |
| ng/dl   | 6.00   | 4.50   | 7.50  |                              |                            |
| pg/ml   | 60.0   | 45.0   | 75.0  |                              |                            |
| pmol/l  | 56.0   | 42.0   | 70.0  | Immunotech RIA               |                            |
| ng/dl   | 4.37   | 3.28   | 5.46  |                              |                            |
| pg/ml   | 43.7   | 32.8   | 54.6  |                              |                            |
| pmol/l  | 69.1   | 51.8   | 86.4  | Fujirebio Lumipulse G Series |                            |
| ng/dl   | 5.39   | 4.04   | 6.74  |                              |                            |
| pg/ml   | 53.9   | 40.4   | 67.4  |                              |                            |
| pmol/l  | 84.7   | 63.5   | 106   | Siemens Dimension Exl LOCI   |                            |
| ng/dl   | 6.61   | 4.95   | 8.27  |                              |                            |
| pg/ml   | 66.1   | 49.5   | 82.7  |                              |                            |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte    | unit   | Target | Range |                       | methods  |
|------------|--------|--------|-------|-----------------------|--|
|            |        |        | low   | high                  |  |
| Free T4    | pmol/l | 54.8   | 41.1  | 68.5                  | Siemens Centaur CP                               |
|            | ng/dl  | 4.27   | 3.21  | 5.33                  |  |
|            | pg/ml  | 42.7   | 32.1  | 53.3                  |  |
|            | pmol/l | 58.4   | 43.8  | 73.0                  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|            | ng/dl  | 4.56   | 3.42  | 5.70                  |  |
|            | pg/ml  | 45.6   | 34.2  | 57.0                  |  |
|            | pmol/l | 89.1   | 66.8  | 111                   | Sysmex HISCL Series                              |
|            | ng/dl  | 6.95   | 5.21  | 8.69                  |  |
|            | pg/ml  | 69.5   | 52.1  | 86.9                  |  |
|            | pmol/l | 115    | 86.3  | 144                   | Diasorin Liaison XL                              |
|            | ng/dl  | 8.97   | 6.73  | 11.2                  |  |
|            | pg/ml  | 89.7   | 67.3  | 112                   |  |
|            | pmol/l | 54.3   | 40.7  | 67.9                  | Siemens Atellica IM                              |
|            | ng/dl  | 4.24   | 3.17  | 5.31                  |  |
|            | pg/ml  | 42.4   | 31.7  | 53.1                  |  |
|            | pmol/l | 47.5   | 35.6  | 59.4                  | Abbott Alinity i                                 |
|            | ng/dl  | 3.71   | 2.78  | 4.64                  |  |
|            | pg/ml  | 37.1   | 27.8  | 46.4                  |  |
| pmol/l     | 76.4   | 57.3   | 95.5  | Roche Cobas e402/e801 |  |
| ng/dl      | 5.96   | 4.47   | 7.45  |                       |  |
| pg/ml      | 59.6   | 44.7   | 74.5  |                       |  |
| pmol/l     | 67.7   | 50.8   | 84.6  | Tosoh AIA-CL Series   |  |
| ng/dl      | 5.28   | 3.96   | 6.60  |                       |  |
| pg/ml      | 52.8   | 39.6   | 66.0  |                       |  |
| FSH        | mU/ml  | 53.8   | 43.0  | 64.6                  | Abbott Architect                                 |
|            | mU/ml  | 71.5   | 57.2  | 85.8                  | BioMerieux Vidas                                 |
|            | mU/ml  | 81.5   | 65.2  | 97.8                  | Siemens Centaur XP/XPT/Classic                   |
|            | mU/ml  | 63.1   | 50.5  | 75.7                  | Siemens Immulite 2000/2500                       |
|            | mU/ml  | 60.8   | 48.6  | 73.0                  | Siemens Immulite 1000                            |
|            | mU/ml  | 66.6   | 53.3  | 79.9                  | Beckman Dxl800                                   |
|            | mU/ml  | 55.5   | 44.4  | 66.6                  | Roche/BM Elecsys                                 |
|            | mU/ml  | 64.8   | 51.8  | 77.8                  | Beckman Access                                   |
|            | mU/ml  | 65.9   | 52.7  | 79.1                  | Tosoh Series                                     |
|            | mU/ml  | 46.5   | 37.2  | 55.8                  | Vitros ECi                                       |
|            | mU/ml  | 58.9   | 47.1  | 70.7                  | Roche Cobas 4000/E411                            |
|            | mU/ml  | 54.2   | 43.4  | 65.0                  | Roche Cobas e601/602                             |
|            | mU/ml  | 74.5   | 59.6  | 89.4                  | Siemens Centaur CP                               |
|            | mU/ml  | 80.8   | 64.6  | 97.0                  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|            | mU/ml  | 92.4   | 73.9  | 111                   | Diasorin Liaison XL                              |
|            | mU/ml  | 79.9   | 63.9  | 95.9                  | Siemens Atellica IM                              |
|            | mU/ml  | 54.0   | 43.2  | 64.8                  | Abbott Alinity i                                 |
|            | mU/ml  | 55.6   | 44.5  | 66.7                  | Roche Cobas e402/e801                            |
| Gentamicin | µmol/l | 9.48   | 7.58  | 11.4                  | Roche Integra                                    |
|            | µg/ml  | 4.53   | 3.62  | 5.44                  |  |
|            | µmol/l | 13.4   | 10.7  | 16.1                  | Siemens Centaur XP/XPT/Classic                   |
|            | µg/ml  | 6.41   | 5.11  | 7.71                  |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Range               |               |        |      |                       |                                   |
|---------------------|---------------|--------|------|-----------------------|-----------------------------------|
| Analyte             | unit          | Target | low  | high                  | methods                           |
| Gentamicin          | µmol/l        | 11.9   | 9.52 | 14.3                  | Abbott Architect (CMIA)           |
|                     | µg/ml         | 5.69   | 4.55 | 6.83                  |                                   |
|                     | µmol/l        | 8.23   | 6.58 | 9.88                  | Roche Cobas 6000/8000 Online KIMS |
|                     | µg/ml         | 3.93   | 3.15 | 4.71                  |                                   |
|                     | µmol/l        | 11.5   | 9.20 | 13.8                  | Siemens Atellica CH               |
|                     | µg/ml         | 5.50   | 4.40 | 6.60                  |                                   |
|                     | µmol/l        | 12.1   | 9.68 | 14.5                  | Abbott Alinity (PETINA)           |
|                     | µg/ml         | 5.78   | 4.63 | 6.93                  |                                   |
|                     | µmol/l        | 11.7   | 9.36 | 14.0                  | Gravimetric                       |
|                     | µg/ml         | 5.59   | 4.47 | 6.69                  |                                   |
| Growth Hormone (GH) | µU/ml         | 40.2   | 32.2 | 48.2                  | Siemens Immulite 2000/2500        |
|                     | ng/ml         | 13.4   | 10.7 | 16.1                  |                                   |
|                     | µU/ml         | 37.4   | 29.9 | 44.9                  | Siemens Immulite 1000             |
|                     | ng/ml         | 12.5   | 9.96 | 15.0                  |                                   |
|                     | µU/ml         | 30.2   | 24.2 | 36.2                  | Beckman DxI800                    |
|                     | ng/ml         | 10.1   | 8.06 | 12.1                  |                                   |
|                     | µU/ml         | 32.2   | 25.8 | 38.6                  | Beckman Access                    |
|                     | ng/ml         | 10.7   | 8.59 | 12.8                  |                                   |
|                     | µU/ml         | 32.3   | 25.8 | 38.8                  | Diasorin Liaison                  |
|                     | ng/ml         | 10.8   | 8.59 | 13.0                  |                                   |
|                     | µU/ml         | 40.3   | 32.2 | 48.4                  | Roche Cobas 4000/E411             |
|                     | ng/ml         | 13.4   | 10.7 | 16.1                  |                                   |
|                     | µU/ml         | 40.0   | 32.0 | 48.0                  | Roche Cobas e601/602              |
|                     | ng/ml         | 13.3   | 10.7 | 15.9                  |                                   |
|                     | µU/ml         | 32.7   | 26.2 | 39.2                  | Diasorin Liaison XL               |
|                     | ng/ml         | 10.9   | 8.72 | 13.1                  |                                   |
| µU/ml               | 40.7          | 32.6   | 48.8 | Roche Cobas e402/e801 |                                   |
| ng/ml               | 13.6          | 10.9   | 16.3 |                       |                                   |
| µU/ml               | 35.7          | 28.6   | 42.8 | Tosoh AIA-CL Series   |                                   |
| ng/ml               | 11.9          | 9.52   | 14.3 |                       |                                   |
| Immunoglobulin E    | KIU/l = IU/ml | 428    | 342  | 514                   | Abbott Architect                  |
|                     | KIU/l = IU/ml | 448    | 358  | 538                   | BioMerieux Vidas                  |
|                     | KIU/l = IU/ml | 483    | 386  | 580                   | Siemens Centaur XP/XPT/Classic    |
|                     | KIU/l = IU/ml | 465    | 372  | 558                   | Siemens Immulite 2000/2500        |
|                     | KIU/l = IU/ml | 562    | 450  | 674                   | Siemens Immulite 1000             |
|                     | KIU/l = IU/ml | 496    | 397  | 595                   | Roche Elecsys                     |
|                     | KIU/l = IU/ml | 455    | 364  | 546                   | Pharmacia Unicap                  |
|                     | KIU/l = IU/ml | 435    | 348  | 522                   | Tosoh Series                      |
|                     | KIU/l = IU/ml | 493    | 394  | 592                   | Roche Cobas 4000/E411             |
|                     | KIU/l = IU/ml | 499    | 399  | 599                   | Roche Cobas e601/602              |
|                     | KIU/l = IU/ml | 480    | 384  | 576                   | Siemens Centaur CP                |
|                     | KIU/l = IU/ml | 497    | 398  | 596                   | Agappe Mispa i2                   |
|                     | KIU/l = IU/ml | 498    | 398  | 598                   | Siemens Atellica IM               |
|                     | KIU/l = IU/ml | 481    | 385  | 577                   | Roche Cobas e402/e801             |
| KIU/l = IU/ml       | 418           | 334    | 502  | Abbott Alinity        |                                   |
| Insulin             | mU/l          | 31.4   | 23.6 | 39.3                  | Siemens Centaur XP/XPT/Classic    |
|                     | µU/ml         | 31.4   | 23.6 | 39.2                  |                                   |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte                  | unit   | Target | Range |                       | methods  |
|--------------------------|--------|--------|-------|-----------------------|--|
|                          |        |        | low   | high                  |  |
| Insulin                  | mU/l   | 9.68   | 7.26  | 12.1                  | Siemens Immulite 1000                            |
|                          | µU/ml  | 9.68   | 7.26  | 12.1                  |  |
|                          | mU/l   | 28.9   | 21.7  | 36.1                  | Roche Elecsys                                    |
|                          | µU/ml  | 28.9   | 21.7  | 36.1                  |  |
|                          | mU/l   | 29.9   | 22.4  | 37.4                  | Beckman Access                                   |
|                          | µU/ml  | 29.9   | 22.4  | 37.4                  |  |
|                          | mU/l   | 25.3   | 19.0  | 31.6                  | Abbott Architect                                 |
|                          | µU/ml  | 25.3   | 19.0  | 31.6                  |  |
|                          | mU/l   | 30.1   | 22.6  | 37.6                  | Tosoh Series                                     |
|                          | µU/ml  | 30.1   | 22.6  | 37.6                  |  |
|                          | mU/l   | 29.8   | 22.4  | 37.3                  | Roche Cobas 4000/E411                            |
|                          | µU/ml  | 29.8   | 22.4  | 37.2                  |  |
|                          | mU/l   | 28.3   | 21.2  | 35.4                  | Beckman Dxl 600/800                              |
|                          | µU/ml  | 28.3   | 21.2  | 35.4                  |  |
|                          | mU/l   | 28.8   | 21.6  | 36.0                  | Roche Cobas 6000/8000                            |
|                          | µU/ml  | 28.8   | 21.6  | 36.0                  |  |
|                          | mU/l   | 29.2   | 21.9  | 36.5                  | Mindray CL Series                                |
|                          | µU/ml  | 29.2   | 21.9  | 36.5                  |  |
|                          | mU/l   | 34.5   | 25.9  | 43.1                  | Diasorin Liaison XL                              |
|                          | µU/ml  | 34.5   | 25.9  | 43.1                  |  |
| mU/l                     | 31.2   | 23.4   | 39.0  | Siemens Atellica IM   |  |
| µU/ml                    | 31.2   | 23.4   | 39.0  |                       |  |
| mU/l                     | 23.5   | 17.6   | 29.4  | Abbott Alinity i      |  |
| µU/ml                    | 23.5   | 17.6   | 29.4  |                       |  |
| mU/l                     | 30.0   | 22.5   | 37.5  | Tosoh AIA-CL Series   |  |
| µU/ml                    | 30.0   | 22.5   | 37.5  |                       |  |
| Luteinising Hormone (LH) | mU/ml  | 40.7   | 32.6  | 48.8                  | Abbott Architect                                 |
|                          | mU/ml  | 49.3   | 39.4  | 59.2                  | BioMerieux Vidas                                 |
|                          | mU/ml  | 48.5   | 38.8  | 58.2                  | Siemens Centaur XP/XPT/Classic                   |
|                          | mU/ml  | 72.6   | 58.1  | 87.1                  | Siemens Immulite 2000                            |
|                          | mU/ml  | 75.1   | 60.1  | 90.1                  | Siemens Immulite 1000                            |
|                          | mU/ml  | 40.6   | 32.5  | 48.7                  | Beckman Dxl800                                   |
|                          | mU/ml  | 54.3   | 43.4  | 65.2                  | Roche Elecsys                                    |
|                          | mU/ml  | 41.1   | 32.9  | 49.3                  | Beckman Access                                   |
|                          | mU/ml  | 47.4   | 37.9  | 56.9                  | Tosoh Series                                     |
|                          | mU/ml  | 61.2   | 49.0  | 73.4                  | Vitros ECi                                       |
|                          | mU/ml  | 54.9   | 43.9  | 65.9                  | Roche Cobas 4000/E411                            |
|                          | mU/ml  | 53.6   | 42.9  | 64.3                  | Roche Cobas e601/602                             |
|                          | mU/ml  | 48.0   | 38.4  | 57.6                  | Siemens Centaur CP                               |
|                          | mU/ml  | 56.9   | 45.5  | 68.3                  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|                          | mU/ml  | 66.6   | 53.3  | 79.9                  | Diasorin Liaison XL                              |
|                          | mU/ml  | 49.5   | 39.6  | 59.4                  | Siemens Atellica IM                              |
|                          | mU/ml  | 41.3   | 33.0  | 49.6                  | Abbott Alinity i                                 |
| mU/ml                    | 54.1   | 43.3   | 64.9  | Roche Cobas e402/e801 |  |
| Oestradiol               | pmol/l | 1267   | 1014  | 1520                  | Abbott Architect                                 |
|                          | pg/ml  | 345    | 276   | 414                   |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte    | unit   | Target | Range |  | methods                                       |
|------------|--------|--------|-------|--|---|
|            |        |        | low   | high                                       |   |
| Oestradiol | pmol/l | 2906   | 2325  | 3487                                       | BioMerieux Vidas                              |
|            | pg/ml  | 790    | 632   | 948  |   |
|            | pmol/l | 2460   | 1968  | 2952                                       | Siemens Centaur XP/XPT/Classic                |
|            | pg/ml  | 669    | 535   | 803  |   |
|            | pmol/l | 2116   | 1693  | 2539                                       | Siemens Immulite 2000/2500                    |
|            | pg/ml  | 576    | 460   | 692  |   |
|            | pmol/l | 2061   | 1649  | 2473                                       | Siemens Immulite 1000                         |
|            | pg/ml  | 561    | 449   | 673  |   |
|            | pmol/l | 1379   | 1103  | 1655                                       | Beckman Dxl800                                |
|            | pg/ml  | 375    | 300   | 450  |   |
|            | pmol/l | 1421   | 1137  | 1705                                       | Roche Elecsys (Estradiol II)                  |
|            | pg/ml  | 387    | 309   | 465  |   |
|            | pmol/l | 1520   | 1216  | 1824                                       | Beckman Access                                |
|            | pg/ml  | 413    | 331   | 495  |   |
|            | pmol/l | 1800   | 1440  | 2160                                       | Tosoh (E2)                                    |
|            | pg/ml  | 490    | 392   | 588  |   |
|            | pmol/l | 2619   | 2095  | 3143                                       | Vitros ECi                                    |
|            | pg/ml  | 712    | 570   | 854  |   |
|            | pmol/l | 1480   | 1184  | 1776                                       | Roche Cobas e601/602 (Estradiol II)           |
|            | pg/ml  | 403    | 322   | 484  |   |
|            | pmol/l | 1475   | 1180  | 1770                                       | Roche Cobas 4000/E411 (Estradiol II)          |
|            | pg/ml  | 401    | 321   | 481  |   |
|            | pmol/l | 2437   | 1950  | 2924                                       | Siemens Centaur XP/XPT/Classic Enhanced (eE2) |
|            | pg/ml  | 663    | 530   | 796  |   |
|            | pmol/l | 1691   | 1353  | 2029                                       | Tosoh (iE2-hsE2)                              |
|            | pg/ml  | 460    | 368   | 552  |   |
|            | pmol/l | 2431   | 1945  | 2917                                       | Siemens Centaur CP Enhanced (eE2)             |
|            | pg/ml  | 661    | 529   | 793  |   |
|            | pmol/l | 1491   | 1193  | 1789                                       | Roche Cobas e601/602 (Estradiol III)          |
|            | pg/ml  | 406    | 324   | 488  |   |
|            | pmol/l | 1459   | 1167  | 1751                                       | Roche Elecsys (Estradiol III)                 |
|            | pg/ml  | 397    | 317   | 477  |   |
| pmol/l     | 1457   | 1166   | 1748  | Roche Cobas 4000/E411 (Estradiol III)      |   |
| pg/ml      | 396    | 317    | 475   |  |   |
| pmol/l     | 2120   | 1696   | 2544  | Mindray CL Series                          |   |
| pg/ml      | 577    | 461    | 693   |  |   |
| pmol/l     | 1105   | 884    | 1326  | Diasorin Liaison XL                        |   |
| pg/ml      | 301    | 240    | 362   |  |   |
| pmol/l     | 1552   | 1242   | 1862  | Beckman Access / Access 2 Sensitive B84493 |   |
| pg/ml      | 422    | 338    | 506   |  |   |
| pmol/l     | 1391   | 1113   | 1669  | Beckman Dxl600/800 Sensitive B84493        |   |
| pg/ml      | 378    | 303    | 453   |  |   |
| pmol/l     | 2582   | 2066   | 3098  | Siemens Atellica IM                        |   |
| pg/ml      | 702    | 562    | 842   |  |   |
| pmol/l     | 1233   | 986    | 1480  | Abbott Alinity i                           |   |
| pg/ml      | 335    | 268    | 402   |  |   |



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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte       | unit   | Target | Range |                         | methods                          |
|---------------|--------|--------|-------|-------------------------|----------------------------------|
|               |        |        | low   | high                    |                                  |
| Oestradiol    | pmol/l | 1494   | 1195  | 1793                    | Roche Cobas e801 (Estradiol III) |
|               | pg/ml  | 406    | 325   | 487                     |                                  |
|               | pmol/l | 1697   | 1358  | 2036                    | Tosoh AIA-CL Series              |
|               | pg/ml  | 462    | 369   | 555                     |                                  |
| Paracetamol   | mmol/l | 0.477  | 0.382 | 0.572                   | Roche Cobas c501/502/503/701/702 |
|               | mg/l   | 72.2   | 57.8  | 86.6                    |                                  |
|               | mmol/l | 0.455  | 0.364 | 0.546                   | Beckman AU Instruments           |
|               | mg/l   | 68.8   | 55.1  | 82.5                    |                                  |
|               | mmol/l | 0.497  | 0.398 | 0.596                   | Abbott Alinity                   |
|               | mg/l   | 75.2   | 60.2  | 90.2                    |                                  |
|               | mmol/l | 0.529  | 0.423 | 0.635                   | Gravimetric                      |
|               | mg/l   | 80.0   | 64.0  | 96.0                    |                                  |
| Phenobarbital | µmol/l | 122    | 97.6  | 146                     | Abbott Architect (CMIA)          |
|               | µg/ml  | 28.3   | 22.6  | 34.0                    |                                  |
|               | µmol/l | 111    | 88.8  | 133                     | Roche Cobas e601/602/801         |
|               | µg/ml  | 25.8   | 20.6  | 31.0                    |                                  |
|               | µmol/l | 116    | 92.8  | 139                     | Beckman AU400/600/640/2700/5400  |
|               | µg/ml  | 26.9   | 21.5  | 32.3                    |                                  |
|               | µmol/l | 163    | 130   | 196                     | Siemens Centaur XP/XPT/Classic   |
|               | µg/ml  | 37.8   | 30.2  | 45.4                    |                                  |
|               | µmol/l | 117    | 93.6  | 140                     | Roche Integra                    |
|               | µg/ml  | 27.1   | 21.7  | 32.5                    |                                  |
|               | µmol/l | 117    | 93.6  | 140                     | Roche Cobas C303/501/502/503/701 |
|               | µg/ml  | 27.1   | 21.7  | 32.5                    |                                  |
|               | µmol/l | 113    | 90.4  | 136                     | Abbott Architect (PETINA)        |
|               | µg/ml  | 26.2   | 21.0  | 31.4                    |                                  |
|               | µmol/l | 123    | 98.4  | 148                     | Siemens Atellica CH              |
|               | µg/ml  | 28.5   | 22.8  | 34.2                    |                                  |
| µmol/l        | 110    | 88.0   | 132   | Abbott Alinity (PETINA) |                                  |
| µg/ml         | 25.5   | 20.4   | 30.6  |                         |                                  |
| µmol/l        | 121    | 96.8   | 145   | Gravimetric             |                                  |
| µg/ml         | 28.1   | 22.5   | 33.6  |                         |                                  |
| Phenytoin     | µmol/l | 94.8   | 75.8  | 114                     | Abbott Architect                 |
|               | µg/ml  | 23.9   | 19.1  | 28.7                    |                                  |
|               | µmol/l | 131    | 105   | 157                     | Siemens Centaur XP/XPT/Classic   |
|               | µg/ml  | 33.1   | 26.5  | 39.7                    |                                  |
|               | µmol/l | 102    | 81.6  | 122                     | Siemens Dimension                |
|               | µg/ml  | 25.8   | 20.6  | 31.0                    |                                  |
|               | µmol/l | 86.8   | 69.4  | 104                     | Siemens Immulite 2000/2500       |
|               | µg/ml  | 21.9   | 17.5  | 26.3                    |                                  |
|               | µmol/l | 92.3   | 73.8  | 111                     | Roche Integra                    |
|               | µg/ml  | 23.3   | 18.6  | 28.0                    |                                  |
| µmol/l        | 93.5   | 74.8   | 112   | Roche Cobas 6000/8000   |                                  |
| µg/ml         | 23.6   | 18.9   | 28.3  |                         |                                  |
| µmol/l        | 97.8   | 78.2   | 117   | Beckman AU Instruments  |                                  |
| µg/ml         | 24.7   | 19.7   | 29.7  |                         |                                  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte      | unit   | Target | Range |                                   | methods                           |
|--------------|--------|--------|-------|-----------------------------------|-----------------------------------|
|              |        |        | low   | high                              |                                   |
| Phenytoin    | µmol/l | 102    | 81.6  | 122                               | Siemens Atellica CH               |
|              | µg/ml  | 25.8   | 20.6  | 31.0                              |                                   |
|              | µmol/l | 97.7   | 78.2  | 117                               | Abbott Alinity                    |
|              | µg/ml  | 24.7   | 19.7  | 29.7                              |                                   |
| Primidone    | µmol/l | 99.8   | 79.8  | 120                               | Gravimetric                       |
|              | µg/ml  | 25.2   | 20.1  | 30.3                              |                                   |
| Progesterone | µmol/l | 32.7   | 26.2  | 39.2                              | Gravimetric                       |
|              | µg/ml  | 7.14   | 5.72  | 8.56                              |                                   |
| Progesterone | nmol/l | 90.9   | 72.7  | 109                               | Abbott Architect                  |
|              | ng/ml  | 28.5   | 22.8  | 34.2                              |                                   |
|              | nmol/l | 138    | 110   | 166                               | BioMerieux Vidas                  |
|              | ng/ml  | 43.2   | 34.4  | 52.0                              |                                   |
|              | nmol/l | 72.1   | 57.7  | 86.5                              | Siemens Centaur XP/XPT/Classic    |
|              | ng/ml  | 22.6   | 18.1  | 27.1                              |                                   |
|              | nmol/l | 75.9   | 60.7  | 91.1                              | Siemens Immulite 2000/2500        |
|              | ng/ml  | 23.8   | 19.0  | 28.6                              |                                   |
|              | nmol/l | 85.3   | 68.2  | 102                               | Siemens Immulite 1000             |
|              | ng/ml  | 26.7   | 21.3  | 32.1                              |                                   |
|              | nmol/l | 89.4   | 71.5  | 107                               | Beckman Dxl Prog Cal 33555        |
|              | ng/ml  | 28.0   | 22.4  | 33.6                              |                                   |
|              | nmol/l | 94.7   | 75.8  | 114                               | Roche Elecsys (Prog. II)          |
|              | ng/ml  | 29.6   | 23.7  | 35.5                              |                                   |
|              | nmol/l | 89.4   | 71.5  | 107                               | Beckman Access Prog Cal 33555     |
|              | ng/ml  | 28.0   | 22.4  | 33.6                              |                                   |
|              | nmol/l | 106    | 84.8  | 127                               | Tosoh Series                      |
|              | ng/ml  | 33.2   | 26.5  | 39.9                              |                                   |
|              | nmol/l | 100    | 80.0  | 120                               | Vitros Eci                        |
|              | ng/ml  | 31.3   | 25.0  | 37.6                              |                                   |
|              | nmol/l | 99.0   | 79.2  | 119                               | Roche Cobas 4000/e411 (Prog. II)  |
|              | ng/ml  | 31.0   | 24.8  | 37.2                              |                                   |
|              | nmol/l | 98.7   | 79.0  | 118                               | Roche Cobas e601/602 (Prog. II)   |
|              | ng/ml  | 30.9   | 24.7  | 37.1                              |                                   |
|              | nmol/l | 85.1   | 68.1  | 102                               | Beckman Dxl Prog DE Cal A80773    |
|              | ng/ml  | 26.6   | 21.3  | 31.9                              |                                   |
|              | nmol/l | 89.8   | 71.8  | 108                               | Beckman Access Prog DE Cal A80773 |
|              | ng/ml  | 28.1   | 22.5  | 33.7                              |                                   |
| nmol/l       | 70.1   | 56.1   | 84.1  | Siemens Centaur CP                |                                   |
| ng/ml        | 21.9   | 17.6   | 26.2  |                                   |                                   |
| nmol/l       | 98.3   | 78.6   | 118   | Roche Cobas e601/602 (Prog. III)  |                                   |
| ng/ml        | 30.8   | 24.6   | 37.0  |                                   |                                   |
| nmol/l       | 97.3   | 77.8   | 117   | Roche Elecsys (Prog. III)         |                                   |
| ng/ml        | 30.5   | 24.4   | 36.6  |                                   |                                   |
| nmol/l       | 97.7   | 78.2   | 117   | Roche Cobas 4000/e411 (Prog. III) |                                   |
| ng/ml        | 30.6   | 24.5   | 36.7  |                                   |                                   |
| nmol/l       | 87.2   | 69.8   | 105   | Diasorin Liaison XL               |                                   |
| ng/ml        | 27.3   | 21.8   | 32.8  |                                   |                                   |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte      | unit         | Target | Range |                         | methods  |
|--------------|--------------|--------|-------|-------------------------|--|
|              |              |        | low   | high                    |  |
| Progesterone | nmol/l       | 85.5   | 68.4  | 103                     | Abbott Alinity i                                 |
|              | ng/ml        | 26.8   | 21.4  | 32.2                    |  |
|              | nmol/l       | 76.2   | 61.0  | 91.4                    | Siemens Atellica IM                              |
|              | ng/ml        | 23.9   | 19.1  | 28.7                    |  |
|              | nmol/l       | 98.1   | 78.5  | 118                     | Roche Cobas e801 (Prog. III)                     |
|              | ng/ml        | 30.7   | 24.6  | 36.8                    |  |
| Prolactin    | nmol/l       | 101    | 80.8  | 121                     | Tosoh AIA-CL Series                              |
|              | ng/ml        | 31.6   | 25.3  | 37.9                    |  |
|              | µU/ml        | 1300   | 1040  | 1560                    | Abbott Architect                                 |
|              | µU/ml        | 1375   | 1100  | 1650                    | BioMerieux Vidas                                 |
|              | µU/ml        | 1026   | 821   | 1231                    | Siemens Centaur XP/XPT/Classic                   |
|              | µU/ml        | 1159   | 927   | 1391                    | Siemens Immulite 2000/2500                       |
|              | µU/ml        | 1282   | 1026  | 1538                    | Siemens Immulite 1000                            |
|              | µU/ml        | 1079   | 863   | 1295                    | Beckman DxI800                                   |
|              | µU/ml        | 1555   | 1244  | 1866                    | Roche Elecsys                                    |
|              | µU/ml        | 1129   | 903   | 1355                    | Beckman Access                                   |
|              | µU/ml        | 1235   | 988   | 1482                    | Tosoh Series                                     |
|              | µU/ml        | 1052   | 842   | 1262                    | Vitros ECi                                       |
|              | µU/ml        | 1558   | 1246  | 1870                    | Roche Elecsys/E170/Cobas 6000/8000 PRLII         |
|              | µU/ml        | 1394   | 1115  | 1673                    | Immunotech IRMA                                  |
|              | µU/ml        | 1603   | 1282  | 1924                    | Roche Cobas 4000/E411                            |
|              | µU/ml        | 1556   | 1245  | 1867                    | Roche Cobas e601/602                             |
|              | µU/ml        | 1042   | 834   | 1250                    | Siemens Centaur CP                               |
|              | µU/ml        | 1337   | 1070  | 1604                    | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
| µU/ml        | 1437         | 1150   | 1724  | Diasorin Liaison XL     |  |
| µU/ml        | 1063         | 850    | 1276  | Siemens Atellica IM     |  |
| µU/ml        | 1337         | 1070   | 1604  | Abbott Alinity i        |  |
| µU/ml        | 1520         | 1216   | 1824  | Roche Cobas e801 PRL II |  |
| PSA Free     | ng/ml = µg/l | 22.7   | 17.0  | 28.4                    | Abbott Architect                                 |
|              | ng/ml = µg/l | 25.8   | 19.4  | 32.3                    | BioMerieux Vidas                                 |
|              | ng/ml = µg/l | 18.2   | 13.7  | 22.8                    | Siemens Centaur XP/XPT/Classic                   |
|              | ng/ml = µg/l | 16.6   | 12.5  | 20.8                    | Siemens Immulite 2000/2500                       |
|              | ng/ml = µg/l | 15.2   | 11.4  | 19.0                    | Siemens Immulite 1000                            |
|              | ng/ml = µg/l | 22.3   | 16.7  | 27.9                    | Beckman DXI standardised to Hybritech            |
|              | ng/ml = µg/l | 17.4   | 13.1  | 21.8                    | Roche Elecsys                                    |
|              | ng/ml = µg/l | 18.2   | 13.7  | 22.8                    | Diasorin Liaison                                 |
|              | ng/ml = µg/l | 22.3   | 16.7  | 27.9                    | Beckman Access standardised to Hybritech         |
|              | ng/ml = µg/l | 17.0   | 12.8  | 21.3                    | Tosoh Series                                     |
|              | ng/ml = µg/l | 17.6   | 13.2  | 22.0                    | Roche Cobas 4000/E411                            |
|              | ng/ml = µg/l | 17.6   | 13.2  | 22.0                    | Roche Cobas e601/602                             |
|              | ng/ml = µg/l | 19.9   | 14.9  | 24.9                    | Beckman DxI800 standardised to WHO IRP96/670     |
|              | ng/ml = µg/l | 16.2   | 12.2  | 20.3                    | Ortho Vitros 3600/5600/ECi PSA II                |
|              | ng/ml = µg/l | 14.9   | 11.2  | 18.6                    | Fujirebio Lumipulse G Series                     |
| ng/ml = µg/l | 16.6         | 12.5   | 20.8  | Diasorin Liaison XL     |  |
| ng/ml = µg/l | 19.0         | 14.3   | 23.8  | Siemens Atellica IM     |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte        | unit         | Target | Range |                       | methods                                      |
|----------------|--------------|--------|-------|-----------------------|--|
|                |              |        | low   | high                  |  |
| PSA Free       | ng/ml = µg/l | 21.4   | 16.1  | 26.8                  | Abbott Alinity i                             |
|                | ng/ml = µg/l | 16.7   | 12.5  | 20.9                  | Roche Cobas e402/e801                        |
| PSA Total      | ng/ml = µg/l | 17.1   | 12.8  | 21.4                  | Abbott Architect                             |
|                | ng/ml = µg/l | 21.2   | 15.9  | 26.5                  | BioMerieux Vidas                             |
|                | ng/ml = µg/l | 20.9   | 15.7  | 26.1                  | bioMerieux VIDAS TPSA                        |
|                | ng/ml = µg/l | 22.2   | 16.7  | 27.8                  | Siemens Centaur XP/XPT/Classic               |
|                | ng/ml = µg/l | 19.3   | 14.5  | 24.1                  | Siemens Immulite 2000/2500 1st generation    |
|                | ng/ml = µg/l | 19.5   | 14.6  | 24.4                  | Siemens Immulite 1000 1st generation         |
|                | ng/ml = µg/l | 23.9   | 17.9  | 29.9                  | Beckman Dxl standardisd to Hybritech         |
|                | ng/ml = µg/l | 19.7   | 14.8  | 24.6                  | Beckman Dxl800 standardised to WHO IRP96/670 |
|                | ng/ml = µg/l | 23.3   | 17.5  | 29.1                  | Roche Elecsys                                |
|                | ng/ml = µg/l | 22.7   | 17.0  | 28.4                  | Diasorin Liaison                             |
|                | ng/ml = µg/l | 24.4   | 18.3  | 30.5                  | Beckman Access standardised to Hybritech     |
|                | ng/ml = µg/l | 24.3   | 18.2  | 30.4                  | Beckman Access standardised to WHO IRP96/670 |
|                | ng/ml = µg/l | 16.0   | 12.0  | 20.0                  | Tosoh Series                                 |
|                | ng/ml = µg/l | 22.6   | 17.0  | 28.3                  | Vitros ECi                                   |
|                | ng/ml = µg/l | 17.4   | 13.1  | 21.8                  | Immunotech IRMA                              |
|                | ng/ml = µg/l | 23.3   | 17.5  | 29.1                  | Roche Cobas 4000/E411                        |
|                | ng/ml = µg/l | 23.3   | 17.5  | 29.1                  | Roche Cobas e601/602                         |
|                | ng/ml = µg/l | 42.8   | 32.1  | 53.5                  | Monobind Inc. ELISA / CLIA                   |
|                | ng/ml = µg/l | 16.3   | 12.2  | 20.4                  | Fujirebio Lumipulse G Series                 |
|                | ng/ml = µg/l | 22.9   | 17.2  | 28.6                  | Ortho Vitros 3600/5600/ECi PSA II            |
| ng/ml = µg/l   | 22.1         | 16.6   | 27.6  | Siemens Centaur CP    |  |
| ng/ml = µg/l   | 22.8         | 17.1   | 28.5  | Diasorin Liaison XL   |  |
| ng/ml = µg/l   | 23.6         | 17.7   | 29.5  | Siemens Atellica IM   |  |
| ng/ml = µg/l   | 17.7         | 13.3   | 22.1  | Abbott Alinity i      |  |
| ng/ml = µg/l   | 22.6         | 17.0   | 28.3  | Roche Cobas e402/e801 |  |
| Salicylic Acid | mmol/l       | 2.75   | 2.20  | 3.30                  | Roche Cobas c501/502/503                     |
|                | mg/dl        | 38.0   | 30.4  | 45.6                  |  |
|                | mmol/l       | 2.86   | 2.29  | 3.43                  | EMIT   |
|                | mg/dl        | 39.5   | 31.6  | 47.4                  |  |
|                | mmol/l       | 2.88   | 2.30  | 3.46                  | Gravimetric                                  |
| mg/dl          | 39.8         | 31.8   | 47.8  |                       |  |
| SHBG           | nmol/l       | 39.8   | 31.8  | 47.8                  | Siemens Immulite 2000/2500                   |
|                | nmol/l       | 40.2   | 32.2  | 48.2                  | Abbott Architect                             |
|                | nmol/l       | 42.0   | 33.6  | 50.4                  | Beckman Dxl800                               |
|                | nmol/l       | 40.3   | 32.2  | 48.4                  | Siemens Atellica IM                          |
|                | nmol/l       | 37.6   | 30.1  | 45.1                  | Roche analysers - 413417/15                  |
|                | nmol/l       | 36.0   | 28.8  | 43.2                  | Roche Cobas e801 - 413429                    |
|                | nmol/l       | 39.4   | 31.5  | 47.3                  | Abbott Alinity i                             |
| T Uptake       | %U           | 38.6   | 31.7  | 45.5                  | Siemens Immulite 2000                        |
| Testosterone   | nmol/l       | 27.7   | 22.2  | 33.2                  | Abbott Architect                             |
|                | ng/ml        | 7.98   | 6.39  | 9.57                  |  |
|                | ng/dl        | 798    | 639   | 957                   |  |
|                | nmol/l       | 25.7   | 20.6  | 30.8                  | BioMerieux Vidas                             |
|                | ng/ml        | 7.40   | 5.93  | 8.87                  |  |
| ng/dl          | 740          | 593    | 887   |                       |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte      | unit   | Target | Range |  | methods                        |
|--------------|--------|--------|-------|--|--------------------------------|
|              |        |        | low   | high   |                                |
| Testosterone | nmol/l | 25.5   | 20.4  | 30.6   | Siemens Centaur XP/XPT/Classic |
|              | ng/ml  | 7.34   | 5.88  | 8.80   |                                |
|              | ng/dl  | 734    | 588   | 880  |                                |
|              | nmol/l | 31.9   | 25.5  | 38.3   | Siemens Immulite 2000/2500     |
|              | ng/ml  | 9.19   | 7.34  | 11.0   |                                |
|              | ng/dl  | 919    | 734   | 1104   |                                |
|              | nmol/l | 46.2   | 37.0  | 55.4   | Siemens Immulite 1000          |
|              | ng/ml  | 13.3   | 10.7  | 15.9   |                                |
|              | ng/dl  | 1331   | 1066  | 1596   |                                |
|              | nmol/l | 23.8   | 19.0  | 28.6   | Beckman Dxl800                 |
|              | ng/ml  | 6.85   | 5.47  | 8.23   |                                |
|              | ng/dl  | 685    | 547   | 823  |                                |
|              | nmol/l | 25.6   | 20.5  | 30.7   | Beckman Access                 |
|              | ng/ml  | 7.37   | 5.90  | 8.84   |                                |
|              | ng/dl  | 737    | 590   | 884  |                                |
|              | nmol/l | 37.8   | 30.2  | 45.4   | Tosoh Series                   |
|              | ng/ml  | 10.9   | 8.70  | 13.1   |                                |
|              | ng/dl  | 1089   | 870   | 1308   |                                |
|              | nmol/l | 37.6   | 30.1  | 45.1   | Vitros ECi                     |
|              | ng/ml  | 10.8   | 8.67  | 12.9   |                                |
|              | ng/dl  | 1083   | 867   | 1299   |                                |
|              | nmol/l | 27.9   | 22.3  | 33.5   | Roche Cobas e601/602 Test II   |
|              | ng/ml  | 8.04   | 6.42  | 9.66   |                                |
|              | ng/dl  | 804    | 642   | 966  |                                |
| nmol/l       | 27.6   | 22.1   | 33.1  | Roche Elecsys Test II                            |                                |
| ng/ml        | 7.95   | 6.36   | 9.54  |  |                                |
| ng/dl        | 795    | 636    | 954   |  |                                |
| nmol/l       | 27.7   | 22.2   | 33.2  | Roche Cobas 4000/e411 Test II                    |                                |
| ng/ml        | 7.98   | 6.39   | 9.57  |  |                                |
| ng/dl        | 798    | 639    | 957   |  |                                |
| nmol/l       | 27.0   | 21.6   | 32.4  | Abbott Architect 2nd Generation                  |                                |
| ng/ml        | 7.78   | 6.22   | 9.34  |  |                                |
| ng/dl        | 778    | 622    | 934   |  |                                |
| nmol/l       | 26.1   | 20.9   | 31.3  | Siemens Centaur CP                               |                                |
| ng/ml        | 7.52   | 6.02   | 9.02  |  |                                |
| ng/dl        | 752    | 602    | 902   |  |                                |
| nmol/l       | 26.1   | 20.9   | 31.3  | BioMerieux Vidas Testosterone II                 |                                |
| ng/ml        | 7.52   | 6.02   | 9.02  |  |                                |
| ng/dl        | 752    | 602    | 902   |  |                                |
| nmol/l       | 41.1   | 32.9   | 49.3  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |                                |
| ng/ml        | 11.8   | 9.48   | 14.1  |  |                                |
| ng/dl        | 1184   | 948    | 1420  |  |                                |
| nmol/l       | 25.3   | 20.2   | 30.4  | Siemens Centaur TST II                           |                                |
| ng/ml        | 7.29   | 5.82   | 8.76  |  |                                |
| ng/dl        | 729    | 582    | 876   |  |                                |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte                     | unit          | Target | Range |                               | methods                              |
|-----------------------------|---------------|--------|-------|-------------------------------|--------------------------------------|
|                             |               |        | low   | high                          |                                      |
| Testosterone                | nmol/l        | 11.8   | 9.44  | 14.2                          | Diasorin Liaison XL                  |
|                             | ng/ml         | 3.40   | 2.72  | 4.08                          |                                      |
|                             | ng/dl         | 340    | 272   | 408                           |                                      |
|                             | nmol/l        | 26.3   | 21.0  | 31.6                          | Siemens Atellica IM                  |
|                             | ng/ml         | 7.57   | 6.05  | 9.09                          |                                      |
|                             | ng/dl         | 757    | 605   | 909                           |                                      |
|                             | nmol/l        | 27.6   | 22.1  | 33.1                          | Roche Cobas e801 Test II             |
|                             | ng/ml         | 7.95   | 6.36  | 9.54                          |                                      |
|                             | ng/dl         | 795    | 636   | 954                           |                                      |
|                             | nmol/l        | 34.7   | 27.8  | 41.6                          | Tosoh AIA-CL Series                  |
|                             | ng/ml         | 9.99   | 8.01  | 12.0                          |                                      |
|                             | ng/dl         | 999    | 801   | 1197                          |                                      |
| nmol/l                      | 27.1          | 21.7   | 32.5  | Abbott Alinity i              |                                      |
| ng/ml                       | 7.80          | 6.25   | 9.35  |                               |                                      |
| ng/dl                       | 780           | 625    | 935   |                               |                                      |
| Theophylline                | µmol/l        | 164    | 131   | 197                           | Roche Integra                        |
|                             | µg/ml         | 29.6   | 23.6  | 35.6                          |                                      |
|                             | µmol/l        | 149    | 119   | 179                           | Abbott Architect (CMIA)              |
|                             | µg/ml         | 26.8   | 21.4  | 32.2                          |                                      |
|                             | µmol/l        | 155    | 124   | 186                           | Roche Cobas 6000/8000                |
|                             | µg/ml         | 27.9   | 22.3  | 33.5                          |                                      |
|                             | µmol/l        | 149    | 119   | 179                           | Beckman AU400/600/640/2700/5400      |
|                             | µg/ml         | 26.8   | 21.4  | 32.2                          |                                      |
| Thyroglobulin               | µmol/l        | 158    | 126   | 190                           | Abbott Alinity Enzyme-Immu           |
|                             | µg/ml         | 28.5   | 22.7  | 34.3                          |                                      |
|                             | µmol/l        | 166    | 133   | 199                           | Gravimetric                          |
|                             | µg/ml         | 29.9   | 24.0  | 35.9                          |                                      |
|                             | ng/ml         | 27.8   | 20.9  | 34.8                          | Siemens Immulite 2000                |
|                             | ng/ml         | 59.4   | 44.6  | 74.3                          | Roche Elecsys                        |
|                             | ng/ml         | 48.7   | 36.5  | 60.9                          | Beckman Dxl800                       |
|                             | ng/ml         | 61.6   | 46.2  | 77.0                          | Roche Cobas 4000/E411                |
|                             | ng/ml         | 60.0   | 45.0  | 75.0                          | Roche Cobas e601/602                 |
|                             | ng/ml         | 50.1   | 37.6  | 62.6                          | Beckman Access                       |
|                             | ng/ml         | 63.4   | 47.6  | 79.3                          | Abbott Architect 2000i               |
|                             | ng/ml         | 56.4   | 42.3  | 70.5                          | Tosoh Series                         |
|                             | ng/ml         | 60.2   | 45.2  | 75.3                          | Roche Cobas e601/602 Tg II           |
|                             | ng/ml         | 60.2   | 45.2  | 75.3                          | Roche Elecsys TGII                   |
|                             | ng/ml         | 60.4   | 45.3  | 75.5                          | Roche Cobas 4000/E411 TGII           |
|                             | ng/ml         | 52.4   | 39.3  | 65.5                          | Diasorin Liaison XL                  |
| ng/ml                       | 58.4          | 43.8   | 73.0  | Roche Cobas e801 Tg II        |                                      |
| ng/ml                       | 55.1          | 41.3   | 68.9  | DiaSorin Liaison XL TG II Gen |                                      |
| ng/ml                       | 61.8          | 46.4   | 77.3  | Abbott Alinity i              |                                      |
| Thyroid Stimulating Hormone | µU/ml = mIU/l | 18.5   | 14.8  | 22.2                          | Abbott Architect                     |
|                             | µU/ml = mIU/l | 20.6   | 16.5  | 24.7                          | bioMerieux VIDAS TSH                 |
|                             | µU/ml = mIU/l | 18.9   | 15.1  | 22.7                          | bioMerieux VIDAS TSH3 Ultrasensitive |
|                             | µU/ml = mIU/l | 23.8   | 19.0  | 28.6                          | Siemens Centaur XP/XPT/Classic       |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Range                       |               |        |       |                       |  |
|-----------------------------|---------------|--------|-------|-----------------------|--|
| Analyte                     | unit          | Target | low   | high                  | methods  |
| Thyroid Stimulating Hormone | µU/ml = mIU/l | 23.7   | 19.0  | 28.4                  | Siemens Centaur XP/XPT/Classic 3rd Generation    |
|                             | µU/ml = mIU/l | 21.2   | 17.0  | 25.4                  | Siemens Immulite 2000/2500                       |
|                             | µU/ml = mIU/l | 21.7   | 17.4  | 26.0                  | Siemens Immulite 1000                            |
|                             | µU/ml = mIU/l | 21.3   | 17.0  | 25.6                  | Beckman Dxl800                                   |
|                             | µU/ml = mIU/l | 22.1   | 17.7  | 26.5                  | Roche Elecsys                                    |
|                             | µU/ml = mIU/l | 33.3   | 26.6  | 40.0                  | Diasorin Liaison                                 |
|                             | µU/ml = mIU/l | 21.1   | 16.9  | 25.3                  | Beckman Access Fast TSH                          |
|                             | µU/ml = mIU/l | 21.0   | 16.8  | 25.2                  | Beckman Access hyperTSH 3rd Generation           |
|                             | µU/ml = mIU/l | 26.3   | 21.0  | 31.6                  | Tosoh Series                                     |
|                             | µU/ml = mIU/l | 28.3   | 22.6  | 34.0                  | Vitros ECi                                       |
|                             | µU/ml = mIU/l | 20.0   | 16.0  | 24.0                  | Immunotech IRMA                                  |
|                             | µU/ml = mIU/l | 22.4   | 17.9  | 26.9                  | Roche Cobas 4000/E411                            |
|                             | µU/ml = mIU/l | 22.4   | 17.9  | 26.9                  | Roche Cobas e601/602                             |
|                             | µU/ml = mIU/l | 20.1   | 16.1  | 24.1                  | Beckman Dxl800 Hyper TSH                         |
|                             | µU/ml = mIU/l | 23.5   | 18.8  | 28.2                  | Siemens Centaur XP/XPT/Classic TSH3-Ultra        |
|                             | µU/ml = mIU/l | 22.3   | 17.8  | 26.8                  | Siemens Centaur CP                               |
|                             | µU/ml = mIU/l | 22.2   | 17.8  | 26.6                  | Siemens Centaur CP TSH3-Ultra                    |
|                             | µU/ml = mIU/l | 28.9   | 23.1  | 34.7                  | Mindray CL 8000i / 6000i / 2000i / 1200i / 1000i |
|                             | µU/ml = mIU/l | 20.9   | 16.7  | 25.1                  | Beckman Dxl 600/800 Access (3rd IS)              |
|                             | µU/ml = mIU/l | 34.1   | 27.3  | 40.9                  | Diasorin Liaison XL                              |
| µU/ml = mIU/l               | 24.0          | 19.2   | 28.8  | Siemens Atellica IM   |  |
| µU/ml = mIU/l               | 18.6          | 14.9   | 22.3  | Abbott Alinity i      |  |
| µU/ml = mIU/l               | 21.1          | 16.9   | 25.3  | Roche Cobas e402/e801 |  |
| Tobramycin                  | µmol/l        | 10.3   | 8.24  | 12.4                  | Gravimetric                                      |
|                             | µg/ml         | 4.82   | 3.86  | 5.80                  |  |
| Total Beta hCG              | mU/ml=IU/l    | 236    | 189   | 283                   | Abbott Architect                                 |
|                             | IU/ml         | 0.236  | 0.189 | 0.283                 |  |
|                             | mU/ml=IU/l    | 424    | 339   | 509                   | BioMerieux Vidas                                 |
|                             | IU/ml         | 0.424  | 0.339 | 0.509                 |  |
|                             | mU/ml=IU/l    | 207    | 166   | 248                   | Siemens Centaur XP/XPT/Classic                   |
|                             | IU/ml         | 0.207  | 0.166 | 0.248                 |  |
|                             | mU/ml=IU/l    | 400    | 320   | 480                   | Siemens Dimension                                |
|                             | IU/ml         | 0.400  | 0.320 | 0.480                 |  |
|                             | mU/ml=IU/l    | 442    | 354   | 530                   | Siemens Immulite 2000                            |
|                             | IU/ml         | 0.442  | 0.354 | 0.530                 |  |
|                             | mU/ml=IU/l    | 465    | 372   | 558                   | Siemens Immulite 1000                            |
|                             | IU/ml         | 0.465  | 0.372 | 0.558                 |  |
|                             | mU/ml=IU/l    | 249    | 199   | 299                   | Beckman Dxl800                                   |
|                             | IU/ml         | 0.249  | 0.199 | 0.299                 |  |
|                             | mU/ml=IU/l    | 275    | 220   | 330                   | Roche Cobas Core EIA                             |
|                             | IU/ml         | 0.275  | 0.220 | 0.330                 |  |
|                             | mU/ml=IU/l    | 242    | 194   | 290                   | Beckman Access                                   |
|                             | IU/ml         | 0.242  | 0.194 | 0.290                 |  |
| mU/ml=IU/l                  | 404           | 323    | 485   | Tosoh Series          |  |
| IU/ml                       | 0.404         | 0.323  | 0.485 |                       |  |
| mU/ml=IU/l                  | 414           | 331    | 497   | Vitros ECi            |  |
| IU/ml                       | 0.414         | 0.331  | 0.497 |                       |  |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte        | unit       | Target | Range |                     | methods                            |
|----------------|------------|--------|-------|---------------------|------------------------------------|
|                |            |        | low   | high                |                                    |
| Total Beta hCG | mU/ml=IU/l | 226    | 181   | 271                 | Roche hCG STAT (Intact)            |
|                | IU/ml      | 0.226  | 0.181 | 0.271               |                                    |
|                | mU/ml=IU/l | 272    | 218   | 326                 | Roche hCG+Beta                     |
|                | IU/ml      | 0.272  | 0.218 | 0.326               |                                    |
|                | mU/ml=IU/l | 244    | 195   | 293                 | Beckman Access Total BhCG (5th IS) |
|                | IU/ml      | 0.244  | 0.195 | 0.293               |                                    |
|                | mU/ml=IU/l | 251    | 201   | 301                 | Beckman Dxl Total BhCG (5th IS)    |
|                | IU/ml      | 0.251  | 0.201 | 0.301               |                                    |
|                | mU/ml=IU/l | 199    | 159   | 239                 | Siemens Centaur CP                 |
|                | IU/ml      | 0.199  | 0.159 | 0.239               |                                    |
|                | mU/ml=IU/l | 155    | 124   | 186                 | Mindray CL Series                  |
|                | IU/ml      | 0.155  | 0.124 | 0.186               |                                    |
|                | mU/ml=IU/l | 247    | 198   | 296                 | Diasorin Liaison XL                |
|                | IU/ml      | 0.247  | 0.198 | 0.296               |                                    |
|                | mU/ml=IU/l | 219    | 175   | 263                 | Siemens Atellica IM                |
|                | IU/ml      | 0.219  | 0.175 | 0.263               |                                    |
|                | mU/ml=IU/l | 235    | 188   | 282                 | Abbott Alinity i                   |
|                | IU/ml      | 0.235  | 0.188 | 0.282               |                                    |
|                | mU/ml=IU/l | 268    | 214   | 322                 | Roche hCG+Beta e801                |
|                | IU/ml      | 0.268  | 0.214 | 0.322               |                                    |
| mU/ml=IU/l     | 499        | 399    | 599   | Tosoh AIA-CL Series |                                    |
| IU/ml          | 0.499      | 0.399  | 0.599 |                     |                                    |
| Total T3       | nmol/l     | 5.17   | 3.88  | 6.46                | Abbott Architect                   |
|                | ng/ml      | 3.37   | 2.53  | 4.21                |                                    |
|                | ng/dl      | 337    | 253   | 421                 |                                    |
|                | nmol/l     | 5.58   | 4.19  | 6.98                | BioMerieux Vidas                   |
|                | ng/ml      | 3.63   | 2.73  | 4.53                |                                    |
|                | ng/dl      | 363    | 273   | 453                 |                                    |
|                | nmol/l     | 6.42   | 4.82  | 8.03                | Siemens Centaur XP/XPT/Classic     |
|                | ng/ml      | 4.18   | 3.14  | 5.22                |                                    |
|                | ng/dl      | 418    | 314   | 522                 |                                    |
|                | nmol/l     | 5.83   | 4.37  | 7.29                | Siemens Immulite 2000/2500         |
|                | ng/ml      | 3.80   | 2.84  | 4.76                |                                    |
|                | ng/dl      | 380    | 284   | 476                 |                                    |
|                | nmol/l     | 5.64   | 4.23  | 7.05                | Siemens Immulite 1000              |
|                | ng/ml      | 3.67   | 2.75  | 4.59                |                                    |
|                | ng/dl      | 367    | 275   | 459                 |                                    |
|                | nmol/l     | 5.63   | 4.22  | 7.04                | Beckman Dxl800                     |
|                | ng/ml      | 3.67   | 2.75  | 4.59                |                                    |
|                | ng/dl      | 367    | 275   | 459                 |                                    |
|                | nmol/l     | 6.17   | 4.63  | 7.71                | Roche Elecsys                      |
|                | ng/ml      | 4.02   | 3.01  | 5.03                |                                    |
| ng/dl          | 402        | 301    | 503   |                     |                                    |
| nmol/l         | 5.67       | 4.25   | 7.09  | Beckman Access      |                                    |
| ng/ml          | 3.69       | 2.77   | 4.61  |                     |                                    |
| ng/dl          | 369        | 277    | 461   |                     |                                    |



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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte  | unit   | Target | Range |                       | methods                        |
|----------|--------|--------|-------|-----------------------|--------------------------------|
|          |        |        | low   | high                  |                                |
| Total T3 | nmol/l | 5.24   | 3.93  | 6.55                  | Tosoh Series                   |
|          | ng/ml  | 3.41   | 2.56  | 4.26                  |                                |
|          | ng/dl  | 341    | 256   | 426                   |                                |
|          | nmol/l | 6.88   | 5.16  | 8.60                  | Vitros ECi                     |
|          | ng/ml  | 4.48   | 3.36  | 5.60                  |                                |
|          | ng/dl  | 448    | 336   | 560                   |                                |
|          | nmol/l | 6.09   | 4.57  | 7.61                  | Roche Cobas 4000/E411          |
|          | ng/ml  | 3.96   | 2.98  | 4.94                  |                                |
|          | ng/dl  | 396    | 298   | 494                   |                                |
|          | nmol/l | 4.76   | 3.57  | 5.95                  | Immunotech RIA                 |
|          | ng/ml  | 3.10   | 2.32  | 3.88                  |                                |
|          | ng/dl  | 310    | 232   | 388                   |                                |
|          | nmol/l | 5.93   | 4.45  | 7.41                  | Roche Cobas e601/602           |
|          | ng/ml  | 3.86   | 2.90  | 4.82                  |                                |
|          | ng/dl  | 386    | 290   | 482                   |                                |
|          | nmol/l | 6.99   | 5.24  | 8.74                  | Siemens Centaur CP             |
|          | ng/ml  | 4.55   | 3.41  | 5.69                  |                                |
|          | ng/dl  | 455    | 341   | 569                   |                                |
|          | nmol/l | 5.08   | 3.81  | 6.35                  | Mindray CL Series              |
|          | ng/ml  | 3.31   | 2.48  | 4.14                  |                                |
|          | ng/dl  | 331    | 248   | 414                   |                                |
|          | nmol/l | 4.74   | 3.56  | 5.93                  | Diasorin Liaison XL            |
|          | ng/ml  | 3.09   | 2.32  | 3.86                  |                                |
|          | ng/dl  | 309    | 232   | 386                   |                                |
| nmol/l   | 5.12   | 3.84   | 6.40  | Abbott Alinity i      |                                |
| ng/ml    | 3.33   | 2.50   | 4.16  |                       |                                |
| ng/dl    | 333    | 250    | 416   |                       |                                |
| nmol/l   | 6.78   | 5.09   | 8.48  | Siemens Atellica IM   |                                |
| ng/ml    | 4.41   | 3.31   | 5.51  |                       |                                |
| ng/dl    | 441    | 331    | 551   |                       |                                |
| nmol/l   | 6.27   | 4.70   | 7.84  | Roche Cobas e402/e801 |                                |
| ng/ml    | 4.08   | 3.06   | 5.10  |                       |                                |
| ng/dl    | 408    | 306    | 510   |                       |                                |
| nmol/l   | 5.55   | 4.16   | 6.94  | Tosoh AIA-CL Series   |                                |
| ng/ml    | 3.61   | 2.71   | 4.51  |                       |                                |
| ng/dl    | 361    | 271    | 451   |                       |                                |
| Total T4 | nmol/l | 206    | 155   | 258                   | Abbott Architect               |
|          | µg/dl  | 16.1   | 12.1  | 20.1                  |                                |
|          | ng/ml  | 161    | 121   | 201                   |                                |
|          | nmol/l | 221    | 166   | 276                   | BioMerieux Vidas               |
|          | µg/dl  | 17.2   | 12.9  | 21.5                  |                                |
|          | ng/ml  | 172    | 129   | 215                   |                                |
|          | nmol/l | 226    | 170   | 283                   | Siemens Centaur XP/XPT/Classic |
|          | µg/dl  | 17.6   | 13.3  | 21.9                  |                                |
|          | ng/ml  | 176    | 133   | 219                   |                                |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte  | unit   | Target | Range |                       | methods                    |
|----------|--------|--------|-------|-----------------------|----------------------------|
|          |        |        | low   | high                  |                            |
| Total T4 | nmol/l | 201    | 151   | 251                   | Siemens Immulite 2000/2500 |
|          | µg/dl  | 15.7   | 11.8  | 19.6                  |                            |
|          | ng/ml  | 157    | 118   | 196                   |                            |
|          | nmol/l | 224    | 168   | 280                   | Beckman DxI800             |
|          | µg/dl  | 17.5   | 13.1  | 21.9                  |                            |
|          | ng/ml  | 175    | 131   | 219                   |                            |
|          | nmol/l | 186    | 140   | 233                   | Roche Elecsys              |
|          | µg/dl  | 14.5   | 10.9  | 18.1                  |                            |
|          | ng/ml  | 145    | 109   | 181                   |                            |
|          | nmol/l | 219    | 164   | 274                   | Beckman Access             |
|          | µg/dl  | 17.1   | 12.8  | 21.4                  |                            |
|          | ng/ml  | 171    | 128   | 214                   |                            |
|          | nmol/l | 195    | 146   | 244                   | Tosoh Series               |
|          | µg/dl  | 15.2   | 11.4  | 19.0                  |                            |
|          | ng/ml  | 152    | 114   | 190                   |                            |
|          | nmol/l | 218    | 164   | 273                   | Vitros ECi                 |
|          | µg/dl  | 17.0   | 12.8  | 21.2                  |                            |
|          | ng/ml  | 170    | 128   | 212                   |                            |
|          | nmol/l | 194    | 146   | 243                   | Roche Cobas 4000/E411      |
|          | µg/dl  | 15.1   | 11.4  | 18.8                  |                            |
|          | ng/ml  | 151    | 114   | 188                   |                            |
|          | nmol/l | 185    | 139   | 231                   | Roche Cobas e601/602       |
|          | µg/dl  | 14.4   | 10.8  | 18.0                  |                            |
|          | ng/ml  | 144    | 108   | 180                   |                            |
|          | nmol/l | 161    | 121   | 201                   | Immunotech IRMA            |
|          | µg/dl  | 12.6   | 9.44  | 15.8                  |                            |
|          | ng/ml  | 126    | 94.4  | 158                   |                            |
|          | nmol/l | 236    | 177   | 295                   | Siemens Centaur CP         |
|          | µg/dl  | 18.4   | 13.8  | 23.0                  |                            |
|          | ng/ml  | 184    | 138   | 230                   |                            |
| nmol/l   | 230    | 173    | 288   | Mindray CL Series     |                            |
| µg/dl    | 17.9   | 13.5   | 22.3  |                       |                            |
| ng/ml    | 179    | 135    | 223   |                       |                            |
| nmol/l   | 200    | 150    | 250   | Diasorin Liaison XL   |                            |
| µg/dl    | 15.6   | 11.7   | 19.5  |                       |                            |
| ng/ml    | 156    | 117    | 195   |                       |                            |
| nmol/l   | 203    | 152    | 254   | Abbott Alinity i      |                            |
| µg/dl    | 15.8   | 11.9   | 19.7  |                       |                            |
| ng/ml    | 158    | 119    | 197   |                       |                            |
| nmol/l   | 233    | 175    | 291   | Siemens Atellica IM   |                            |
| µg/dl    | 18.2   | 13.7   | 22.7  |                       |                            |
| ng/ml    | 182    | 137    | 227   |                       |                            |
| nmol/l   | 181    | 136    | 226   | Roche Cobas e402/e801 |                            |
| µg/dl    | 14.1   | 10.6   | 17.6  |                       |                            |
| ng/ml    | 141    | 106    | 176   |                       |                            |
| nmol/l   | 224    | 168    | 280   | Tosoh AIA-CL Series   |                            |
| µg/dl    | 17.5   | 13.1   | 21.9  |                       |                            |
| ng/ml    | 175    | 131    | 219   |                       |                            |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte       | unit   | Target | Range |                         | methods                         |
|---------------|--------|--------|-------|-------------------------|---------------------------------|
|               |        |        | low   | high                    |                                 |
| Valproic Acid | µmol/l | 916    | 733   | 1099                    | Abbott Architect (CMIA)         |
|               | µg/ml  | 132    | 106   | 158                     |                                 |
|               | µmol/l | 996    | 797   | 1195                    | Siemens Centaur XP/XPT/Classic  |
|               | µg/ml  | 144    | 115   | 173                     |                                 |
|               | µmol/l | 892    | 714   | 1070                    | Siemens Dimension               |
|               | µg/ml  | 129    | 103   | 155                     |                                 |
|               | µmol/l | 977    | 782   | 1172                    | Siemens Immulite 2000/2500      |
|               | µg/ml  | 141    | 113   | 169                     |                                 |
|               | µmol/l | 915    | 732   | 1098                    | Roche Integra                   |
|               | µg/ml  | 132    | 106   | 158                     |                                 |
|               | µmol/l | 912    | 730   | 1094                    | Roche Cobas 6000/8000           |
|               | µg/ml  | 132    | 105   | 159                     |                                 |
|               | µmol/l | 958    | 766   | 1150                    | Beckman AU400/600/640/2700/5400 |
|               | µg/ml  | 138    | 111   | 165                     |                                 |
|               | µmol/l | 883    | 706   | 1060                    | Abbott Architect (PETINA)       |
|               | µg/ml  | 127    | 102   | 152                     |                                 |
|               | µmol/l | 990    | 792   | 1188                    | EMIT                            |
|               | µg/ml  | 143    | 114   | 172                     |                                 |
|               | µmol/l | 906    | 725   | 1087                    | Siemens Atellica CH             |
|               | µg/ml  | 131    | 105   | 157                     |                                 |
| µmol/l        | 939    | 751    | 1127  | Abbott Alinity (CMIA)   |                                 |
| µg/ml         | 135    | 108    | 162   |                         |                                 |
| µmol/l        | 925    | 740    | 1110  | Abbott Alinity (PETINA) |                                 |
| µg/ml         | 133    | 107    | 159   |                         |                                 |
| µmol/l        | 1116   | 893    | 1339  | Gravimetric             |                                 |
| µg/ml         | 161    | 129    | 193   |                         |                                 |
| Vancomycin    | µmol/l | 10.6   | 8.48  | 12.7                    | Roche Integra                   |
|               | µg/ml  | 15.7   | 12.6  | 18.8                    |                                 |
|               | µmol/l | 9.29   | 7.43  | 11.1                    | Ortho Vitros Microslide Systems |
|               | µg/ml  | 13.8   | 11.0  | 16.6                    |                                 |
|               | µmol/l | 12.1   | 9.68  | 14.5                    | Abbott Architect (CMIA)         |
|               | µg/ml  | 18.0   | 14.4  | 21.6                    |                                 |
|               | µmol/l | 9.18   | 7.34  | 11.0                    | Siemens Centaur XP/XPT/Classic  |
|               | µg/ml  | 13.6   | 10.9  | 16.3                    |                                 |
|               | µmol/l | 11.5   | 9.20  | 13.8                    | Siemens Dimension               |
|               | µg/ml  | 17.1   | 13.7  | 20.5                    |                                 |
|               | µmol/l | 11.0   | 8.80  | 13.2                    | Roche Cobas 6000/8000           |
|               | µg/ml  | 16.3   | 13.1  | 19.5                    |                                 |
|               | µmol/l | 11.3   | 9.04  | 13.6                    | Abbott Architect (PETINA)       |
|               | µg/ml  | 16.8   | 13.4  | 20.2                    |                                 |
|               | µmol/l | 10.6   | 8.48  | 12.7                    | Siemens Atellica CH             |
|               | µg/ml  | 15.7   | 12.6  | 18.8                    |                                 |
| µmol/l        | 11.5   | 9.20   | 13.8  | Abbott Alinity (CMIA)   |                                 |
| µg/ml         | 17.1   | 13.7   | 20.5  |                         |                                 |

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

Cat. No. IA3111 / IA3112 Lot. No. 2181EC Size 12 x 5ml / 4 x 5ml Expiry 2025-06-28

| Analyte     | unit   | Target | Range |                         | methods                        |
|-------------|--------|--------|-------|-------------------------|--------------------------------|
|             |        |        | low   | high                    |                                |
| Vancomycin  | µmol/l | 10.9   | 8.72  | 13.1                    | Abbott Alinity (PETINA)        |
|             | µg/ml  | 16.2   | 13.0  | 19.4                    |                                |
|             | µmol/l | 10.8   | 8.64  | 13.0                    | Gravimetric                    |
|             | µg/ml  | 16.0   | 12.8  | 19.3                    |                                |
| Vitamin B12 | pmol/l | 563    | 450   | 676                     | Abbott Architect               |
|             | pg/ml  | 763    | 610   | 916                     |                                |
|             | pmol/l | 617    | 494   | 740                     | Siemens Centaur XP/XPT/Classic |
|             | pg/ml  | 836    | 669   | 1003                    |                                |
|             | pmol/l | 633    | 506   | 760                     | Siemens Immulite 2000          |
|             | pg/ml  | 858    | 686   | 1030                    |                                |
|             | pmol/l | 500    | 400   | 600                     | Beckman Dxl800                 |
|             | pg/ml  | 678    | 542   | 814                     |                                |
|             | pmol/l | 597    | 478   | 716                     | Roche Elecsys                  |
|             | pg/ml  | 809    | 648   | 970                     |                                |
|             | pmol/l | 516    | 413   | 619                     | Beckman Access                 |
|             | pg/ml  | 699    | 560   | 838                     |                                |
|             | pmol/l | 774    | 619   | 929                     | Tosoh Series                   |
|             | pg/ml  | 1049   | 839   | 1259                    |                                |
|             | pmol/l | 593    | 474   | 712                     | Vitros Eci                     |
|             | pg/ml  | 804    | 642   | 966                     |                                |
|             | pmol/l | 566    | 453   | 679                     | Siemens Dimension              |
|             | pg/ml  | 767    | 614   | 920                     |                                |
|             | pmol/l | 681    | 545   | 817                     | Siemens Centaur CP             |
|             | pg/ml  | 923    | 738   | 1108                    |                                |
|             | pmol/l | 614    | 491   | 737                     | Roche Cobas 4000/e411 Gen II   |
|             | pg/ml  | 832    | 665   | 999                     |                                |
|             | pmol/l | 638    | 510   | 766                     | Roche Cobas e601/602 Gen II    |
|             | pg/ml  | 864    | 691   | 1037                    |                                |
| pmol/l      | 826    | 661    | 991   | Mindray CL Series       |                                |
| pg/ml       | 1119   | 896    | 1342  |                         |                                |
| pmol/l      | 648    | 518    | 778   | Siemens Atellica IM     |                                |
| pg/ml       | 878    | 702    | 1054  |                         |                                |
| pmol/l      | 555    | 444    | 666   | Abbott Alinity i        |                                |
| pg/ml       | 752    | 602    | 902   |                         |                                |
| pmol/l      | 622    | 498    | 746   | Roche Cobas e801 Gen II |                                |
| pg/ml       | 843    | 675    | 1011  |                         |                                |

**ADDITIONAL VALUES FOR  
IMMUNOASSAY PREMIUM PLUS - LEVEL 3  
(IA PREMIUM PLUS 3)  
Cat No. IA3111 / IA3112  
Lot No. 2181EC  
GTIN: 05055273207279 / 05055273207286**

| COMPONENT                | UNITS      | TARGET | RANGE     | METHOD                  |
|--------------------------|------------|--------|-----------|-------------------------|
| 25-OH Vitamin D          | nmol/l     | 98.8   | 74.1-124  | Diasorin Liaison Series |
| Cortisol                 | nmol/l     | 1076   | 807-1345  | Diasorin Liaison Series |
|                          | µg/dl      | 38.7   | 29.1-48.4 |                         |
| FSH                      | mU/ml      | 87.6   | 70.1-105  | Diasorin Liaison Series |
| Insulin                  | mU/l       | 34.1   | 25.6-42.6 | Diasorin Liaison Series |
|                          | µU/ml      | 34.1   | 25.6-42.6 |                         |
| Luteinising Hormone (LH) | mU/m       | 65.7   | 52.6-78.8 | Diasorin Liaison Series |
| Prolactin                | µU/ml      | 1434   | 1147-1721 | Diasorin Liaison Series |
| Total Beta hCG           | mU/ml=IU/l | 242    | 194-290   | Diasorin Liaison Series |
|                          | IU/ml      | 0.24   | 0.19-0.29 |                         |
| Total T3                 | nmol/l     | 4.78   | 3.59-5.98 | Diasorin Liaison Series |
|                          | ng/ml      | 3.11   | 2.34-3.89 |                         |
|                          | ng/dl      | 311    | 234-389   |                         |

**EC REP**

Randox Teoranta, Meenmore,  
Dungloe, Donegal,  
F94 TV06, Ireland

Rev. 11 May '23 me

**ADDITIONAL VALUES FOR  
IMMUNOASSAY PREMIUM PLUS - LEVEL 3  
(IA PREMIUM PLUS 3)  
Cat No. IA3111 / IA3112  
Lot No. 2181EC  
GTIN: 05055273207279 / 05055273207286**

| COMPONENT                      | UNITS         | TARGE<br>T | RANGE       | METHOD                     |
|--------------------------------|---------------|------------|-------------|----------------------------|
| 17-OH Progesterone             | nmol/l        | 39.3       | 27.5 - 51.1 | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 13.0       | 9.10 - 16.9 |                            |
| 25-OH Vitamin D                | nmol/l        | 81.4       | 57.0 - 106  | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 32.6       | 22.8 - 42.4 |                            |
| 25-OH Vitamin D                | nmol/l        | 125        | 87.5 - 163  | SNIBE Maglumi Analysers II |
|                                | ng/ml         | 50.1       | 35.1 - 65.1 |                            |
| Alpha-foetoprotein             | KIU/l = IU/ml | 180        | 126 - 234   | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 218        | 153 - 283   |                            |
| Androstenedione                | nmol/l        | 17.6       | 12.3 - 22.9 | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 5.05       | 3.54 - 6.56 |                            |
| Beta-2-microglobulin           | µg/ml = mg/l  | 5.36       | 3.75 - 6.97 | SNIBE Maglumi Analysers    |
| C-Peptide                      | nmol/l        | 3.24       | 2.27 - 4.21 | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 9.78       | 6.85 - 12.7 |                            |
| CA125                          | U/ml          | 168        | 118 - 218   | SNIBE Maglumi Analysers    |
| CA 15-3                        | U/ml          | 95.0       | 66.5 - 124  | SNIBE Maglumi Analysers    |
| CA 19-9                        | U/ml          | 128        | 89.6 - 166  | SNIBE Maglumi Analysers    |
| Carcinoembryonic Antigen (CEA) | ng/ml = µg/l  | 60.8       | 42.6 - 79.0 | SNIBE Maglumi Analysers    |
| Cortisol                       | nmol/l        | 1197       | 838 - 1556  | SNIBE Maglumi Analysers    |
|                                | µg/dl         | 43.1       | 30.2 - 56.0 |                            |
| DHEA-S                         | µmol/l        | 20.4       | 14.3 - 26.5 | SNIBE Maglumi Analysers    |
|                                | µg/dl         | 752        | 526 - 978   |                            |
| Digoxin                        | nmol/l        | 5.16       | 3.61 - 6.71 | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 4.03       | 2.82 - 5.24 |                            |
| Ferritin                       | ng/ml = µg/l  | 366        | 256 - 476   | SNIBE Maglumi Analysers    |
| Folate                         | nmol/l        | 29.7       | 20.8 - 38.6 | SNIBE Maglumi Analysers    |
|                                | ng/ml         | 13.1       | 9.17 - 17.0 |                            |

| COMPONENT                   | UNITS         | TARGET | RANGE         | METHOD                  |
|-----------------------------|---------------|--------|---------------|-------------------------|
| Free T3                     | pmol/l        | 33.6   | 23.5 - 43.7   | SNIBE Maglumi Analysers |
|                             | ng/dl         | 2.18   | 1.53 - 2.83   |                         |
|                             | pg/ml         | 21.9   | 15.3 - 28.5   |                         |
| Free T4                     | pmol/l        | 88.7   | 62.1 - 115    | SNIBE Maglumi Analysers |
|                             | ng/dl         | 6.92   | 4.84 - 9.00   |                         |
|                             | pg/ml         | 69.2   | 48.4 - 90.0   |                         |
| FSH                         | mU/ml         | 72.4   | 50.7 - 94.1   | SNIBE Maglumi Analysers |
| Growth Hormone (GH)         | μU/ml         | 52.0   | 36.4 - 67.6   | SNIBE Maglumi Analysers |
|                             | ng/ml         | 17.3   | 12.1 - 22.5   |                         |
| Immunoglobulin E            | KIU/l = IU/ml | 436    | 305 - 567     | SNIBE Maglumi Analysers |
| Insulin                     | mU/l          | 29.8   | 20.9 - 38.7   | SNIBE Maglumi Analysers |
|                             | μU/ml         | 29.8   | 20.9 - 38.7   |                         |
| Luteinising Hormone (LH)    | mU/ml         | 73.7   | 51.6 - 95.8   | SNIBE Maglumi Analysers |
| Oestradiol                  | pmol/l        | 3349   | 2344 - 4354   | SNIBE Maglumi Analysers |
|                             | pg/ml         | 911    | 638 - 1184    |                         |
| Progesterone                | nmol/l        | 78.9   | 55.2 - 103    | SNIBE Maglumi Analysers |
|                             | ng/ml         | 24.7   | 17.3 - 32.1   |                         |
| Prolactin                   | μU/ml         | 1308   | 916 - 1700    | SNIBE Maglumi Analysers |
| PSA Free                    | ng/ml = μg/l  | 18.2   | 12.7 - 23.7   | SNIBE Maglumi Analysers |
| PSA Total                   | ng/ml = μg/l  | 19.6   | 13.7 - 25.5   | SNIBE Maglumi Analysers |
| SHBG                        | nmol/l        | 49.2   | 34.4 - 64.0   | SNIBE Maglumi Analysers |
| Testosterone                | nmol/l        | 22.4   | 15.7 - 29.1   | SNIBE Maglumi Analysers |
|                             | ng/ml         | 6.45   | 4.52 - 8.38   |                         |
|                             | ng/dl         | 645    | 452 - 838     |                         |
| Thyroid Stimulating Hormone | μU/ml = mIU/l | 20.1   | 14.1 - 26.1   | SNIBE Maglumi Analysers |
| Total Beta hCG              | mU/ml=IU/l    | 416    | 291 - 541     | SNIBE Maglumi Analysers |
|                             | IU/ml         | 0.416  | 0.291 - 0.541 |                         |
| Total T3                    | nmol/l        | 5.10   | 3.57 - 6.63   | SNIBE Maglumi Analysers |
|                             | ng/ml         | 3.32   | 2.32 - 4.32   |                         |
|                             | ng/dl         | 332    | 232 - 432     |                         |

| COMPONENT   | UNITS  | TARGET | RANGE       | METHOD                  |
|-------------|--------|--------|-------------|-------------------------|
| Total T4    | nmol/l | 204    | 143 - 265   | SNIBE Maglumi Analysers |
|             | µg/dl  | 15.9   | 11.1 - 20.7 |                         |
|             | ng/ml  | 159    | 111 - 207   |                         |
| Vitamin B12 | pmol/l | 576    | 403 - 749   | SNIBE Maglumi Analysers |
|             | pg/ml  | 780    | 546 - 1014  |                         |

EC REP

Randox Teoranta, Meenmore,  
Dungloe, Donegal,  
F94 TV06, Ireland

Rev. 09 Feb '23 me



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

|                 |        |                |                |             |           |
|-----------------|--------|----------------|----------------|-------------|-----------|
| <b>CAT. NO.</b> | IA3111 | <b>GTIN:</b>   | 05055273207279 | <b>SIZE</b> | 12 x 5 ml |
| <b>CAT. NO.</b> | IA3112 | <b>GTIN:</b>   | 05055273207286 | <b>SIZE</b> | 4 x 5 ml  |
| <b>LOT NO.</b>  | 2181EC | <b>EXPIRY:</b> | 2025-06-28     |             |           |

### 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.

- 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.
- Refer to the Control section of the individual analyser application.
- 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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| EC | REP |
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Randox Teoranta, Meenmore,  
Dungloe, Donegal,  
F94 TV06, Ireland

(S.) 18 Sep '23 me

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

| Cat. No. IA3111 / IA3112       |               | Lot No. 2181EC |       | Size: 12 x 5ml / 4 x 5ml |                                    | Expiry: 2025-06-28 |  |
|--------------------------------|---------------|----------------|-------|--------------------------|------------------------------------|--------------------|--|
| Analyte                        | unit          | Target         | Range |                          | methods                            |                    |  |
|                                |               |                | low   | high                     |                                    |                    |  |
| 25-OH Vitamin D                | nmol/l        | 106            | 79.5  | 133                      | Vitros Eci                         |                    |  |
| Alpha-fetoprotein              | KIU/l = IU/ml | 162            | 130   | 194                      | Vitros Eci                         |                    |  |
| CA 125                         | U/ml          | 179            | 143.0 | 215                      | Vitros Eci                         |                    |  |
| CA 15-3                        | U/ml          | 64.2           | 51.4  | 77.0                     | Vitros Eci                         |                    |  |
| CA 19-9                        | U/ml          | 346            | 277   | 415                      | Vitros Eci                         |                    |  |
| C-Peptide                      | nmol/l        | 2.860          | 2.150 | 3.580                    | Vitros Eci                         |                    |  |
|                                | ng/ml         | 8.63           | 6.49  | 10.8                     |                                    |                    |  |
| Carcinoembryonic Antigen (CEA) | ng/ml = µg/l  | 63.2           | 50.6  | 75.8                     | Vitros Eci                         |                    |  |
| Cortisol                       | nmol/l        | 922            | 692   | 1153                     | Vitros Eci                         |                    |  |
|                                | µg/dl         | 33.2           | 24.9  | 41.5                     |                                    |                    |  |
| Ferritin                       | ng/ml = µg/l  | 197            | 158   | 236                      | Vitros Eci                         |                    |  |
| Folate                         | nmol/l        | 12.8           | 9.73  | 15.9                     | Vitros Eci                         |                    |  |
|                                | ng/ml         | 5.64           | 4.29  | 6.99                     |                                    |                    |  |
| Free T3                        | pmol/l        | 35.0           | 26.3  | 43.8                     | Vitros Eci                         |                    |  |
|                                | ng/dl         | 2.28           | 1.71  | 2.85                     |                                    |                    |  |
|                                | pg/ml         | 22.8           | 17.1  | 28.5                     |                                    |                    |  |
| Free T4                        | pmol/l        | 89.8           | 67.4  | 112                      | Vitros Eci                         |                    |  |
|                                | ng/dl         | 7.00           | 5.26  | 8.74                     |                                    |                    |  |
|                                | pg/ml         | 70.0           | 52.6  | 87.4                     |                                    |                    |  |
| FSH                            | mU/ml         | 46.5           | 37.2  | 55.8                     | Vitros Eci                         |                    |  |
| Insulin                        | mU/l          | 25.0           | 18.8  | 31.3                     | Ortho Vitros 3600/5600/ECi/XT 7600 |                    |  |
|                                | µU/ml         | 25.0           | 18.8  | 31.3                     |                                    |                    |  |
| Luteinising Hormone (LH)       | mU/ml         | 61.2           | 49.0  | 73.4                     | Vitros Eci                         |                    |  |
| Oestradiol                     | pmol/l        | 2619           | 2095  | 3143                     | Vitros Eci                         |                    |  |
|                                | pg/ml         | 712            | 570   | 854                      |                                    |                    |  |
| Progesterone                   | nmol/l        | 100            | 80.0  | 120                      | Vitros Eci                         |                    |  |
|                                | ng/ml         | 31.3           | 25.0  | 37.6                     |                                    |                    |  |
| Prolactin                      | µU/ml         | 1052           | 842   | 1262                     | Vitros Eci                         |                    |  |
| PSA Free                       | ng/ml = µg/l  | 16.2           | 12.2  | 20.3                     | Ortho Vitros 3600/5600/ECi PSA II  |                    |  |
| PSA Total                      | ng/ml = µg/l  | 22.6           | 17.0  | 28.3                     | Vitros Eci                         |                    |  |
| Testosterone                   | nmol/l        | 37.6           | 30.1  | 45.1                     | Vitros Eci                         |                    |  |
|                                | ng/ml         | 10.8           | 8.67  | 12.9                     |                                    |                    |  |
|                                | ng/dl         | 1083           | 867   | 1299                     |                                    |                    |  |
| Thyroid Stimulating Hormone    | µU/ml = mIU/l | 28.3           | 22.6  | 34.0                     | Vitros Eci                         |                    |  |
| Total Beta hCG                 | mU/ml=IU/l    | 414            | 331   | 497                      | Vitros Eci                         |                    |  |
|                                | IU/ml         | 0.414          | 0.331 | 0.497                    |                                    |                    |  |
| Vitamin B12                    | pmol/l        | 593            | 474   | 712                      | Vitros Eci                         |                    |  |
|                                | pg/ml         | 804            | 642   | 966                      |                                    |                    |  |