

## 免疫质控品

货号: IA3111  
批号: 1972EC

包装: 12x5ml  
效期: 2022-12-28

### 产品描述

本品适用于临床化学体外诊断的免疫质控, 用于监测免疫测定的正确度或重复度。朗道供应三种浓度水平 (水平 1: IA3109; 水平 2: IA3110; 水平 3: IA3111)。

### 安全预防措施和警告

本产品仅用于体外诊断。禁止用口吸。按照实验室常规预防措施对试剂进行处理。

该质控品采用人基质血清, 对所有捐献者的血清均进行了 HIV(HIV1、HIV2)抗体、肝炎 B 表面抗原(HbsAg)和肝炎 C 病毒(HCV)抗体的测试, 发现均呈阴性。所采用的方法均经 FDA 认证。

然而, 既然没有一种方法能够完全保证其没有传染物质, 因此该质控品和所有的病人样品均应当按照能够传播疾病的样品小心处理。

### 保存和稳定性

开瓶后, 2~8℃保存。复溶后的血清如果保存在原始容器, 并且无污染, 可在 2~8℃保存 7 天, 并可在 -20℃保存 4 周, 只能冻融一次。C 肽在 2~8℃可稳定 1 天。甲状旁腺素(PTH)和甲状腺球蛋白(TG)复溶后如果 2~8℃保存, 要在 4 小时内检测; 若 -20℃保存, 则须在 2 周内检测。促肾上腺皮质激素(ACTH)如果 2~8℃保存, 要在 4 小时内检测。不提供促肾上腺皮质激素(ACTH)、醛固酮和 C-肽的冷冻稳定性说明。每次使用只吸取所需用量, 剩余的样品不可返回原瓶。

未开瓶, 2~8℃可保存至效期末。

复溶后的血清在受到细菌污染后, 会导致许多组分稳定性的下降, 应该将该瓶样品抛弃, 重新复溶一瓶新的血清。

### 使用说明

该免疫质控品为冻干粉。

1. 小心打开瓶盖, 往瓶中准确加入 5 ml 蒸馏水, 在 15~25℃的条件下复溶, 盖上瓶盖, 放置 30 分钟。轻轻翻转瓶子, 确保内容物完全溶解; 不要振荡, 避免气泡的产生。
2. 参照各个分析仪的质控说明。
3. 冷藏未使用的材料, 再次使用前, 确保样品充分混合均匀。

### 赋值

每一批质控血清都要送到参考实验室, 这些实验室通过独特的统计分析方法得到一个结果进行赋值。质控范围值是平均值 $\pm$ 2 S.D., 质控结果应该落在这个区间内; 然而, 朗道赋值系统与客户检测系统存在的差异不可避免, 所以靶值书仅供参考, 建议每个实验室建立自己的参考靶值和可接受范围。

该质控品可用于醛固酮项目, 但只提供水平 2 和水平 3 的靶值。该材料还可用于 PTH 项目的质控, 但不作定值参考范围和稳定性的声明。

雅培 Abbott Architect 的 CA19-9 检验原理为抗原抗体反应, 所使用的抗体材料是 1116-NA-19-9, 有报道指出 1116-NA-19-9 的浓度很高时, Abbott Architect 系统的检验结果比其它方法的结果可能更高。

**注:** 详细赋值信息请以原版英文说明书为准, 原版说明书请在英国朗道公司官网 [www.randox.com](http://www.randox.com) 进行下载。

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                         |        |        |      |      |                                         |
|-------------------------------|--------|--------|------|------|-----------------------------------------|
| Analyte                       | unit   | Target | low  | high | methods                                 |
| 17-OH-Progesterone<br>17-羟基孕酮 | nmol/l | 44.8   | 33.6 | 56.0 | DRG ELISA                               |
|                               | ng/ml  | 14.8   | 11.1 | 18.5 |                                         |
|                               | nmol/l | 34.0   | 25.5 | 42.5 | DIAsource RIA                           |
|                               | ng/ml  | 11.3   | 8.44 | 14.2 |                                         |
| 25-OH Vitamin D<br>25-OH 维生素D | nmol/l | 114    | 85.5 | 143  | Diasorin Liaison                        |
|                               | nmol/l | 139    | 104  | 174  | Siemens Centaur XP/XPT/Classic          |
|                               | nmol/l | 87.4   | 65.6 | 109  | Roche Vitamin D Total                   |
|                               | nmol/l | 98.2   | 73.7 | 123  | Abbott Architect                        |
|                               | nmol/l | 113    | 84.8 | 141  | Vitros ECI                              |
|                               | nmol/l | 86.8   | 65.1 | 109  | Tosoh Series                            |
|                               | nmol/l | 84.6   | 63.5 | 106  | BioMerieux Vidas                        |
|                               | nmol/l | 93.1   | 69.8 | 116  | Beckman Dxl 600/800                     |
|                               | nmol/l | 102    | 76.5 | 128  | Fujirebio Lumipulse G Series            |
|                               | nmol/l | 97.2   | 72.9 | 122  | Beckman Access 25 OH Vitamin D Total    |
|                               | nmol/l | 97.4   | 73.1 | 122  | Abbott Architect (5P02)/ Alinity (8P45) |
|                               | nmol/l | 108    | 81.0 | 135  | Diasorin Liaison XL                     |
|                               | nmol/l | 108    | 81.0 | 135  | Roche Vitamin D Total II                |
|                               | nmol/l | 134    | 101  | 168  | Siemens Atellica IM                     |
| ACTH<br>促肾上腺皮质激素              | pmol/l | 44.8   | 33.6 | 56.0 | Siemens Immulite 2000/2500              |
|                               | pg/ml  | 204    | 153  | 255  |                                         |
|                               | pmol/l | 27.1   | 20.3 | 33.9 | Roche Cobas E411                        |
|                               | pg/ml  | 123    | 92.3 | 154  |                                         |
|                               | pmol/l | 27.2   | 20.4 | 34.0 | Roche Cobas 6000/8000                   |
|                               | pg/ml  | 124    | 92.7 | 155  |                                         |
|                               | pmol/l | 76.0   | 57.0 | 95.0 | CIS IRMA                                |
|                               | pg/ml  | 345    | 259  | 431  |                                         |
|                               | pmol/l | 40.2   | 30.2 | 50.3 | Siemens Immulite 1000                   |
|                               | pg/ml  | 183    | 137  | 229  |                                         |
| Aldosterone<br>醛固酮            | pmol/l | 39.0   | 29.3 | 48.8 | Diasorin Liaison                        |
|                               | pg/ml  | 177    | 133  | 221  |                                         |
|                               | pmol/l | 50.9   | 38.2 | 63.6 | Diasorin Liaison XL                     |
|                               | pg/ml  | 231    | 174  | 288  |                                         |
|                               | pmol/l | 760    | 570  | 950  | DRG ELISA                               |
|                               | pg/ml  | 274    | 206  | 342  |                                         |
|                               | pmol/l | 212    | 159  | 265  | CIS RIA                                 |
|                               | pg/ml  | 76.5   | 57.4 | 95.6 |                                         |
|                               | pmol/l | 898    | 674  | 1123 | Immunotech RIA                          |
|                               | pg/ml  | 324    | 243  | 405  |                                         |
|                               | pmol/l | 579    | 434  | 724  | Diasorin Liaison                        |
|                               | pg/ml  | 209    | 157  | 261  |                                         |
|                               | pmol/l | 594    | 446  | 743  | Diasorin Liaison XL                     |
|                               | pg/ml  | 214    | 161  | 267  |                                         |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                            |               |        |      |      |                                |
|----------------------------------|---------------|--------|------|------|--------------------------------|
| Analyte                          | unit          | Target | low  | high | methods                        |
| Alphafoetoprotein<br>甲胎蛋白 (AFP)  | KIU/l = IU/ml | 166    | 133  | 199  | Abbott AFP-EIA                 |
|                                  | ng/ml         | 201    | 161  | 241  |                                |
|                                  | KIU/l = IU/ml | 166    | 133  | 199  | Abbott Architect               |
|                                  | ng/ml         | 201    | 161  | 241  |                                |
|                                  | KIU/l = IU/ml | 185    | 148  | 222  | BioMerieux Vidas               |
|                                  | ng/ml         | 224    | 179  | 269  |                                |
|                                  | KIU/l = IU/ml | 195    | 154  | 236  | Siemens Centaur XP/XPT/Classic |
|                                  | ng/ml         | 236    | 186  | 286  |                                |
|                                  | KIU/l = IU/ml | 166    | 133  | 199  | Siemens Immulite 2000/2500     |
|                                  | ng/ml         | 201    | 161  | 241  |                                |
|                                  | KIU/l = IU/ml | 175    | 140  | 210  | Siemens Immulite 1000          |
|                                  | ng/ml         | 212    | 169  | 255  |                                |
|                                  | KIU/l = IU/ml | 161    | 129  | 193  | Beckman Dxl800                 |
|                                  | ng/ml         | 195    | 156  | 234  |                                |
|                                  | KIU/l = IU/ml | 185    | 148  | 222  | Roche Elecsys                  |
|                                  | ng/ml         | 224    | 179  | 269  |                                |
|                                  | KIU/l = IU/ml | 196    | 157  | 235  | Diasorin Liaison               |
|                                  | ng/ml         | 237    | 190  | 284  |                                |
|                                  | KIU/l = IU/ml | 170    | 136  | 204  | Beckman Access                 |
|                                  | ng/ml         | 206    | 165  | 247  |                                |
| Amikacin<br>丁胺卡那霉素               | KIU/l = IU/ml | 163    | 130  | 196  | Tosoh Series                   |
|                                  | ng/ml         | 197    | 157  | 237  |                                |
|                                  | KIU/l = IU/ml | 179    | 143  | 215  | Vitros Eci                     |
|                                  | ng/ml         | 186    | 149  | 223  |                                |
| Androstenedione<br>雄烯二酮          | KIU/l = IU/ml | 190    | 152  | 228  | Roche Cobas 6000/8000          |
|                                  | ng/ml         | 230    | 184  | 276  |                                |
|                                  | KIU/l = IU/ml | 285    | 228  | 342  | CIS IRMA                       |
|                                  | ng/ml         | 345    | 276  | 414  |                                |
| Beta-2-microglobulin<br>β-2-微球蛋白 | KIU/l = IU/ml | 191    | 153  | 229  | Roche Cobas E411               |
|                                  | ng/ml         | 231    | 185  | 277  |                                |
|                                  | KIU/l = IU/ml | 169    | 135  | 203  | Fujirebio Lumipulse G Series   |
|                                  | ng/ml         | 204    | 163  | 245  |                                |
|                                  | KIU/l = IU/ml | 194    | 153  | 235  | Siemens Centaur CP             |
|                                  | ng/ml         | 235    | 186  | 284  |                                |
|                                  | KIU/l = IU/ml | 192    | 154  | 230  | Diasorin Liaison XL            |
|                                  | ng/ml         | 232    | 186  | 278  |                                |
|                                  | μmol/l        | 24.0   | 19.2 | 28.8 | Roche Cobas 6000/8000          |
|                                  | μg/ml         | 14.1   | 11.2 | 17.0 |                                |
|                                  | μmol/l        | 24.1   | 19.3 | 28.9 | Gravimetric                    |
|                                  | μg/ml         | 14.1   | 11.3 | 16.9 |                                |
|                                  | nmol/l        | 32.7   | 24.5 | 40.9 | Siemens Immulite 2000          |
|                                  | ng/ml         | 9.38   | 7.03 | 11.7 |                                |
|                                  | nmol/l        | 22.5   | 16.9 | 28.1 | Diasorin Liaison XL            |
|                                  | ng/ml         | 6.46   | 4.85 | 8.07 |                                |
|                                  | μg/ml = mg/l  | 5.67   | 4.54 | 6.80 | Abbott Architect               |
|                                  | μg/ml = mg/l  | 6.18   | 4.94 | 7.42 | BioMerieux Vidas               |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                            |              |        |       |       |                                   |
|----------------------------------|--------------|--------|-------|-------|-----------------------------------|
| Analyte                          | unit         | Target | low   | high  | methods                           |
| Beta-2-microglobulin<br>β-2-微球蛋白 | µg/ml = mg/l | 5.60   | 4.48  | 6.72  | Behring Nephelometer              |
|                                  | µg/ml = mg/l | 4.77   | 3.82  | 5.72  | Siemens Immulite 2000/2500        |
|                                  | µg/ml = mg/l | 5.79   | 4.63  | 6.95  | Tosoh Series                      |
|                                  | µg/ml = mg/l | 5.59   | 4.47  | 6.71  | Roche Cobas 6000/8000             |
|                                  | µg/ml = mg/l | 4.48   | 3.58  | 5.38  | Fujirebio Lumipulse G Series      |
|                                  | µg/ml = mg/l | 6.43   | 5.14  | 7.72  | Siemens ADVIA 1200/1650/1800/2400 |
| C-Peptide<br>C-肽                 | nmol/l       | 3.500  | 2.630 | 4.380 | Siemens Immulite 2000/2500        |
|                                  | ng/ml        | 10.6   | 7.94  | 13.3  |                                   |
|                                  | nmol/l       | 3.220  | 2.420 | 4.030 | Roche Elecsys                     |
|                                  | ng/ml        | 9.72   | 7.31  | 12.1  |                                   |
|                                  | nmol/l       | 3.520  | 2.640 | 4.400 | Roche Cobas 6000/8000             |
|                                  | ng/ml        | 10.6   | 7.97  | 13.2  |                                   |
|                                  | nmol/l       | 3.410  | 2.560 | 4.260 | Siemens Immulite 1000             |
|                                  | ng/ml        | 10.3   | 7.73  | 12.9  |                                   |
|                                  | nmol/l       | 3.910  | 2.930 | 4.890 | Diasorin Liaison                  |
|                                  | ng/ml        | 11.8   | 8.85  | 14.8  |                                   |
|                                  | nmol/l       | 3.450  | 2.590 | 4.310 | Roche Cobas E411                  |
|                                  | ng/ml        | 10.4   | 7.82  | 13.0  |                                   |
|                                  | nmol/l       | 3.210  | 2.410 | 4.010 | Abbott Architect                  |
|                                  | ng/ml        | 9.69   | 7.28  | 12.1  |                                   |
|                                  | nmol/l       | 2.740  | 2.060 | 3.420 | Siemens Centaur XP/XPT/Classic    |
|                                  | ng/ml        | 8.27   | 6.20  | 10.3  |                                   |
|                                  | nmol/l       | 3.250  | 2.440 | 4.060 | Tosoh Series                      |
|                                  | ng/ml        | 9.81   | 7.37  | 12.3  |                                   |
|                                  | nmol/l       | 3.610  | 2.710 | 4.510 | Fujirebio Lumipulse G Series      |
|                                  | ng/ml        | 10.9   | 8.18  | 13.6  |                                   |
|                                  | nmol/l       | 3.750  | 2.810 | 4.690 | Diasorin Liaison XL               |
|                                  | ng/ml        | 11.3   | 8.48  | 14.1  |                                   |
|                                  | nmol/l       | 2.710  | 2.030 | 3.390 | Siemens Atellica IM               |
|                                  | ng/ml        | 8.18   | 6.13  | 10.2  |                                   |
| CA 15-3                          | U/ml         | 83.5   | 66.8  | 100   | Abbott Architect                  |
|                                  | U/ml         | 66.4   | 53.1  | 79.7  | BioMerieux Vidas                  |
|                                  | U/ml         | 75.4   | 52.0  | 98.8  | Siemens Centaur XP/XPT/Classic    |
|                                  | U/ml         | 64.5   | 51.6  | 77.4  | Siemens Immulite 2000/2500        |
|                                  | U/ml         | 84.4   | 67.5  | 101   | Siemens Immulite 1000             |
|                                  | U/ml         | 27.8   | 22.2  | 33.4  | Beckman Dxl800                    |
|                                  | U/ml         | 71.7   | 57.4  | 86.0  | Roche Elecsys                     |
|                                  | U/ml         | 84.5   | 67.6  | 101   | Diasorin Liaison                  |
|                                  | U/ml         | 26.8   | 21.4  | 32.2  | Beckman Access                    |
|                                  | U/ml         | 79.1   | 63.3  | 94.9  | Tosoh Series                      |
|                                  | U/ml         | 69.8   | 55.8  | 83.8  | Vitros ECI                        |
|                                  | U/ml         | 75.2   | 60.2  | 90.2  | Roche Cobas 6000/8000             |
|                                  | U/ml         | 75.2   | 60.2  | 90.2  | Roche Cobas E411                  |
|                                  | U/ml         | 84.1   | 67.3  | 101   | Fujirebio Lumipulse G Series      |
|                                  | U/ml         | 74.2   | 51.2  | 97.2  | Siemens Centaur CP                |
|                                  | U/ml         | 27.8   | 22.2  | 33.4  | Mindray CL-2000i                  |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                       |        |        |      |      |                                             |
|-----------------------------|--------|--------|------|------|---------------------------------------------|
| Analyte                     | unit   | Target | low  | high | methods                                     |
| CA 15-3                     | U/ml   | 77.8   | 62.2 | 93.4 | Diasorin Liaison XL                         |
| CA 19-9                     | U/ml   | 161    | 129  | 193  | BioMerieux Vidas                            |
|                             | U/ml   | 183    | 126  | 240  | Siemens Centaur XP/XPT/Classic              |
|                             | U/ml   | 231    | 185  | 277  | Siemens Immulite 2000/2500                  |
|                             | U/ml   | 200    | 160  | 240  | Beckman Dxl800                              |
|                             | U/ml   | 111    | 88.8 | 133  | Roche Elecsys                               |
|                             | U/ml   | 191    | 153  | 229  | Diasorin Liaison                            |
|                             | U/ml   | 238    | 190  | 286  | Beckman Access                              |
|                             | U/ml   | 82.9   | 66.3 | 99.0 | Tosoh Series                                |
|                             | U/ml   | 229    | 183  | 275  | Vitros Eci                                  |
|                             | U/ml   | 401    | 321  | 481  | Abbott Architect XR/XR2 kit                 |
|                             | U/ml   | 108    | 86.4 | 130  | Roche Cobas 6000/8000                       |
|                             | U/ml   | 109    | 87.2 | 131  | Roche Cobas E411                            |
|                             | U/ml   | 192    | 154  | 230  | Fujirebio Lumipulse G Series                |
|                             | U/ml   | 172    | 119  | 225  | Siemens Centaur CP                          |
|                             | U/ml   | 100    | 80.0 | 120  | Mindray CL-2000i                            |
|                             | U/ml   | 220    | 176  | 264  | Diasorin Liaison XL                         |
| CA125                       | U/ml   | 220    | 176  | 264  | Abbott Architect                            |
|                             | U/ml   | 177    | 142  | 212  | BioMerieux Vidas                            |
|                             | U/ml   | 190    | 131  | 249  | Siemens Centaur XP/XPT/Classic OV Kit       |
|                             | U/ml   | 193    | 133  | 253  | Siemens Centaur XP/XPT/Classic CA125 II kit |
|                             | U/ml   | 185    | 148  | 222  | Siemens Immulite 2000/2500                  |
|                             | U/ml   | 208    | 166  | 250  | Siemens Immulite 1000                       |
|                             | U/ml   | 157    | 126  | 188  | Beckman Dxl800                              |
|                             | U/ml   | 160    | 128  | 192  | Roche Elecsys                               |
|                             | U/ml   | 241    | 193  | 289  | Diasorin Liaison                            |
|                             | U/ml   | 161    | 129  | 193  | Beckman Access                              |
|                             | U/ml   | 280    | 224  | 336  | Tosoh Series                                |
|                             | U/ml   | 171    | 137  | 205  | Vitros Eci                                  |
|                             | U/ml   | 162    | 130  | 194  | Roche Cobas E411                            |
|                             | U/ml   | 160    | 128  | 192  | Roche Cobas 6000/8000                       |
|                             | U/ml   | 160    | 128  | 192  | Fujirebio Lumipulse G Series                |
|                             | U/ml   | 198    | 137  | 259  | Siemens Centaur CP CA125 II kit             |
|                             | U/ml   | 321    | 257  | 385  | Mindray CL-2000i                            |
|                             | U/ml   | 220    | 176  | 264  | Diasorin Liaison XL                         |
| Carbamazepine<br>立痛定 (卡马西平) | µmol/l | 69.4   | 55.5 | 83.3 | Abbott Architect                            |
|                             | µg/ml  | 16.4   | 13.1 | 19.7 |                                             |
|                             | µmol/l | 70.3   | 43.6 | 97.0 | Siemens Centaur XP/XPT/Classic              |
|                             | µg/ml  | 16.6   | 10.3 | 22.9 |                                             |
|                             | µmol/l | 68.2   | 54.6 | 81.8 | Siemens Dimension                           |
|                             | µg/ml  | 16.1   | 12.9 | 19.3 |                                             |
|                             | µmol/l | 62.5   | 50.0 | 75.0 | Siemens Immulite 2000/2500                  |
|                             | µg/ml  | 14.8   | 11.8 | 17.8 |                                             |
|                             | µmol/l | 62.8   | 50.2 | 75.4 | Siemens Immulite 1000                       |
|                             | µg/ml  | 14.8   | 11.9 | 17.7 |                                             |
|                             | µmol/l | 75.6   | 60.5 | 90.7 | Roche Integra                               |
|                             | µg/ml  | 17.9   | 14.3 | 21.5 |                                             |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                                          |              |        |      |      |                                 |
|------------------------------------------------|--------------|--------|------|------|---------------------------------|
| Analyte                                        | unit         | Target | low  | high | methods                         |
| Carbamazepine<br>立痛定 (卡马西平)                    | μmol/l       | 63.5   | 50.8 | 76.2 | Vitros                          |
|                                                | μg/ml        | 15.0   | 12.0 | 18.0 |                                 |
|                                                | μmol/l       | 70.5   | 56.4 | 84.6 | Roche Cobas 6000/8000           |
|                                                | μg/ml        | 16.7   | 13.3 | 20.1 |                                 |
|                                                | μmol/l       | 69.6   | 55.7 | 83.5 | Beckman DxC                     |
|                                                | μg/ml        | 16.5   | 13.2 | 19.8 |                                 |
|                                                | μmol/l       | 73.6   | 62.6 | 84.6 | Beckman AU400/600/640/2700/5400 |
|                                                | μg/ml        | 17.4   | 14.8 | 20.0 |                                 |
|                                                | μmol/l       | 72.2   | 57.8 | 86.6 | Gravimetric                     |
|                                                | μg/ml        | 17.1   | 13.7 | 20.5 |                                 |
|                                                | ng/ml = μg/l | 68.1   | 54.5 | 81.7 | Abbott Architect                |
|                                                | ng/ml = μg/l | 63.8   | 51.0 | 76.6 | BioMerieux Vidas                |
| Carcinoembryonic<br>Antigen (CEA)<br>癌胚抗原(CEA) | ng/ml = μg/l | 59.6   | 41.1 | 78.1 | Siemens Centaur XP/XPT/Classic  |
|                                                | ng/ml = μg/l | 55.4   | 44.3 | 66.5 | CIS RIA Coated tube             |
|                                                | ng/ml = μg/l | 77.5   | 62.0 | 93.0 | Siemens Immulite 2000/2500      |
|                                                | ng/ml = μg/l | 85.6   | 68.5 | 103  | Siemens Immulite 1000           |
|                                                | ng/ml = μg/l | 57.2   | 45.8 | 68.6 | Beckman Dxl800                  |
|                                                | ng/ml = μg/l | 52.2   | 41.8 | 62.6 | Roche Elecsys                   |
|                                                | ng/ml = μg/l | 55.2   | 44.2 | 66.2 | Diasorin Liaison                |
|                                                | ng/ml = μg/l | 60.2   | 48.2 | 72.2 | Beckman Access                  |
|                                                | ng/ml = μg/l | 73.9   | 59.1 | 88.7 | Tosoh Series                    |
|                                                | ng/ml = μg/l | 62.9   | 50.3 | 75.5 | Vitros ECI                      |
|                                                | ng/ml = μg/l | 51.4   | 41.1 | 61.7 | Roche Cobas 6000/8000           |
|                                                | ng/ml = μg/l | 52.5   | 42.0 | 63.0 | Roche Cobas E411                |
|                                                | ng/ml = μg/l | 74.5   | 59.6 | 89.4 | Fujirebio Lumipulse G Series    |
|                                                | ng/ml = μg/l | 60.8   | 48.6 | 73.0 | Boditech Med Inc i-CHROMA       |
|                                                | ng/ml = μg/l | 59.6   | 41.1 | 78.1 | Siemens Centaur CP              |
|                                                | ng/ml = μg/l | 44.9   | 35.9 | 53.9 | Mindray CL-2000i                |
|                                                | ng/ml = μg/l | 65.4   | 52.3 | 78.5 | Diasorin Liaison XL             |
| Cortisol<br>皮质醇                                | nmol/l       | 821    | 616  | 1026 | Abbott Architect                |
|                                                | μg/dl        | 29.6   | 22.2 | 37.0 |                                 |
|                                                | nmol/l       | 929    | 697  | 1161 | BioMerieux Vidas                |
|                                                | μg/dl        | 33.4   | 25.1 | 41.7 |                                 |
|                                                | nmol/l       | 1062   | 733  | 1391 | Siemens Centaur XP/XPT/Classic  |
|                                                | μg/dl        | 38.2   | 26.4 | 50.0 |                                 |
|                                                | nmol/l       | 780    | 585  | 975  | CIS RIA                         |
|                                                | μg/dl        | 28.1   | 21.1 | 35.1 |                                 |
|                                                | nmol/l       | 907    | 680  | 1134 | Siemens Immulite 2000/2500      |
|                                                | μg/dl        | 32.7   | 24.5 | 40.9 |                                 |
|                                                | nmol/l       | 892    | 669  | 1115 | Siemens Immulite 1000           |
|                                                | μg/dl        | 32.1   | 24.1 | 40.1 |                                 |
|                                                | nmol/l       | 907    | 680  | 1134 | Beckman Dxl800                  |
|                                                | μg/dl        | 32.7   | 24.5 | 40.9 |                                 |
|                                                | nmol/l       | 997    | 748  | 1246 | Roche Elecsys                   |
|                                                | μg/dl        | 35.9   | 26.9 | 44.9 |                                 |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range             |        |        |      |      |                                |
|-------------------|--------|--------|------|------|--------------------------------|
| Analyte           | unit   | Target | low  | high | methods                        |
| Cortisol<br>皮质醇   | nmol/l | 940    | 705  | 1175 | Diasorin Liaison               |
|                   | µg/dl  | 33.8   | 25.4 | 42.2 |                                |
|                   | nmol/l | 969    | 727  | 1211 | Beckman Access                 |
|                   | µg/dl  | 34.9   | 26.2 | 43.6 |                                |
|                   | nmol/l | 1079   | 809  | 1349 | Tosoh Series                   |
|                   | µg/dl  | 38.8   | 29.1 | 48.5 |                                |
|                   | nmol/l | 899    | 674  | 1124 | Vitros ECI                     |
|                   | µg/dl  | 32.4   | 24.3 | 40.5 |                                |
|                   | nmol/l | 955    | 716  | 1194 | Roche Cobas 6000/8000          |
|                   | µg/dl  | 34.4   | 25.8 | 43.0 |                                |
|                   | nmol/l | 1050   | 788  | 1313 | Roche Cobas E411               |
|                   | µg/dl  | 37.8   | 28.4 | 47.2 |                                |
|                   | nmol/l | 1094   | 755  | 1433 | Siemens Centaur CP             |
|                   | µg/dl  | 39.4   | 27.2 | 51.6 |                                |
| DHEA-S<br>去表雄酮硫酸盐 | nmol/l | 1051   | 788  | 1314 | Roche Cobas 4000/e411 Gen II   |
|                   | µg/dl  | 37.8   | 28.4 | 47.2 |                                |
|                   | nmol/l | 972    | 729  | 1215 | Roche Cobas 6000/8000 Gen II   |
|                   | µg/dl  | 35.0   | 26.2 | 43.8 |                                |
|                   | nmol/l | 963    | 722  | 1204 | Roche Elecsys Gen II           |
|                   | µg/dl  | 34.7   | 26.0 | 43.4 |                                |
|                   | nmol/l | 1030   | 773  | 1288 | Diasorin Liaison XL            |
|                   | µg/dl  | 37.1   | 27.8 | 46.4 |                                |
|                   | µmol/l | 21.6   | 17.3 | 25.9 | Abbott Architect               |
|                   | µmol/l | 17.3   | 13.8 | 20.8 | Siemens Immulite 2000/2500     |
|                   | µmol/l | 18.5   | 14.8 | 22.2 | Siemens Immulite 1000          |
| Digoxin<br>地高辛    | µmol/l | 17.5   | 14.0 | 21.0 | Beckman Dxl800                 |
|                   | µmol/l | 26.1   | 20.9 | 31.3 | Roche Elecsys                  |
|                   | µmol/l | 17.5   | 14.0 | 21.0 | Beckman Access                 |
|                   | µmol/l | 16.5   | 13.2 | 19.8 | Diasorin Liaison               |
|                   | µmol/l | 17.8   | 10.7 | 24.9 | Siemens Centaur XP/XPT/Classic |
|                   | µmol/l | 26.1   | 20.9 | 31.3 | Roche Cobas E411               |
|                   | µmol/l | 26.2   | 21.0 | 31.4 | Roche Cobas 6000/8000          |
|                   | µmol/l | 18.4   | 11.0 | 25.8 | Siemens Centaur CP             |
|                   | nmol/l | 4.24   | 3.39 | 5.09 | Abbott Architect               |
|                   | ng/ml  | 3.31   | 2.65 | 3.97 |                                |
|                   | nmol/l | 5.04   | 4.03 | 6.05 | BioMerieux Vidas               |
|                   | ng/ml  | 3.94   | 3.15 | 4.73 |                                |
|                   | nmol/l | 5.23   | 4.08 | 6.38 | Siemens Centaur XP/XPT/Classic |
|                   | ng/ml  | 4.08   | 3.18 | 4.98 |                                |
|                   | nmol/l | 5.04   | 4.03 | 6.05 | Siemens Dimension              |
|                   | ng/ml  | 3.94   | 3.15 | 4.73 |                                |
|                   | nmol/l | 5.40   | 4.32 | 6.48 | Siemens Immulite 2000/2500     |
|                   | ng/ml  | 4.22   | 3.37 | 5.07 |                                |
|                   | nmol/l | 5.96   | 4.77 | 7.15 | Siemens Immulite 1000          |
|                   | ng/ml  | 4.65   | 3.73 | 5.57 |                                |
|                   | nmol/l | 4.92   | 3.94 | 5.90 | Beckman Dxl800                 |
|                   | ng/ml  | 3.84   | 3.08 | 4.60 |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range               |              |        |      |      |                                               |
|---------------------|--------------|--------|------|------|-----------------------------------------------|
| Analyte             | unit         | Target | low  | high | methods                                       |
| Digoxin<br>地高辛      | nmol/l       | 5.19   | 4.15 | 6.23 | Roche Integra                                 |
|                     | ng/ml        | 4.05   | 3.24 | 4.86 |                                               |
|                     | nmol/l       | 4.92   | 3.94 | 5.90 | Beckman Access                                |
|                     | ng/ml        | 3.84   | 3.08 | 4.60 |                                               |
|                     | nmol/l       | 4.70   | 3.76 | 5.64 | Vitros                                        |
|                     | ng/ml        | 3.67   | 2.94 | 4.40 |                                               |
|                     | nmol/l       | 4.92   | 3.94 | 5.90 | Roche Cobas 6000/8000                         |
|                     | ng/ml        | 3.84   | 3.08 | 4.60 |                                               |
|                     | nmol/l       | 5.25   | 4.20 | 6.30 | Beckman AU400/600/640/2700/5400               |
|                     | ng/ml        | 4.10   | 3.28 | 4.92 |                                               |
|                     | nmol/l       | 4.98   | 3.98 | 5.98 | Siemens ADVIA 1200/1650/1800/2400             |
|                     | ng/ml        | 3.89   | 3.11 | 4.67 |                                               |
|                     | nmol/l       | 5.33   | 4.26 | 6.40 | Roche Cobas 4000/E411                         |
|                     | ng/ml        | 4.16   | 3.33 | 4.99 |                                               |
|                     | nmol/l       | 5.12   | 4.10 | 6.14 | Gravimetric                                   |
|                     | ng/ml        | 4.00   | 3.20 | 4.80 |                                               |
| Ethosuximide<br>乙琥胺 | μmol/l       | 493    | 394  | 592  | Gravimetric                                   |
|                     | μg/ml        | 69.9   | 55.9 | 83.9 |                                               |
| Ferritin<br>铁蛋白     | ng/ml = μg/l | 368    | 294  | 442  | Abbott Architect                              |
|                     | ng/ml = μg/l | 269    | 215  | 323  | BioMerieux Vidas                              |
|                     | ng/ml = μg/l | 311    | 249  | 373  | Roche Tinaquant                               |
|                     | ng/ml = μg/l | 315    | 246  | 384  | Siemens Centaur XP/XPT/Classic                |
|                     | ng/ml = μg/l | 300    | 240  | 360  | Siemens Dimension                             |
|                     | ng/ml = μg/l | 286    | 229  | 343  | Siemens Immulite 2000/2500                    |
|                     | ng/ml = μg/l | 243    | 194  | 292  | Siemens Immulite 1000                         |
|                     | ng/ml = μg/l | 232    | 186  | 278  | Beckman Dxl800                                |
|                     | ng/ml = μg/l | 337    | 270  | 404  | Roche Elecsys                                 |
|                     | ng/ml = μg/l | 342    | 274  | 410  | Diasorin Liaison                              |
|                     | ng/ml = μg/l | 335    | 268  | 402  | Roche Modular E170                            |
|                     | ng/ml = μg/l | 243    | 194  | 292  | Beckman Access                                |
|                     | ng/ml = μg/l | 228    | 182  | 274  | Tosoh Series                                  |
|                     | ng/ml = μg/l | 208    | 166  | 250  | Vitros ECI                                    |
|                     | ng/ml = μg/l | 277    | 222  | 332  | Immunotech IRMA                               |
|                     | ng/ml = μg/l | 333    | 266  | 400  | Roche Cobas E411                              |
|                     | ng/ml = μg/l | 266    | 213  | 319  | Beckman AU400/600/640/2700/5400               |
|                     | ng/ml = μg/l | 199    | 159  | 239  | Fujirebio Lumipulse G Series                  |
|                     | ng/ml = μg/l | 297    | 232  | 362  | Siemens Centaur CP                            |
|                     | ng/ml = μg/l | 350    | 280  | 420  | Diasorin Liaison XL                           |
| Folate<br>叶酸        | nmol/l       | 13.8   | 10.5 | 17.1 | Abbott Architect                              |
|                     | ng/ml        | 6.09   | 4.63 | 7.55 |                                               |
|                     | nmol/l       | 25.6   | 15.4 | 35.8 | Siemens Centaur XP/XPT/Classic (enhanced kit) |
|                     | ng/ml        | 11.3   | 6.78 | 15.8 |                                               |
|                     | nmol/l       | 12.2   | 9.27 | 15.1 | Siemens Immulite 2000                         |
|                     | ng/ml        | 5.38   | 4.09 | 6.67 |                                               |
|                     | nmol/l       | 19.3   | 14.7 | 23.9 | Beckman Dxl800                                |
|                     | ng/ml        | 8.51   | 6.48 | 10.5 |                                               |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range           |        |        |       |      |                                |
|-----------------|--------|--------|-------|------|--------------------------------|
| Analyte         | unit   | Target | low   | high | methods                        |
| Folate<br>叶酸    | nmol/l | 19.0   | 14.4  | 23.6 | Beckman Access                 |
|                 | ng/ml  | 8.38   | 6.35  | 10.4 |                                |
|                 | nmol/l | 28.2   | 21.4  | 35.0 | Tosoh Series                   |
|                 | ng/ml  | 12.4   | 9.44  | 15.4 |                                |
|                 | nmol/l | 11.7   | 8.89  | 14.5 | Vitros ECI                     |
|                 | ng/ml  | 5.16   | 3.92  | 6.40 |                                |
|                 | nmol/l | 16.9   | 12.8  | 21.0 | MP Biomedicals RIA             |
|                 | ng/ml  | 7.45   | 5.64  | 9.26 |                                |
|                 | nmol/l | 13.0   | 9.88  | 16.1 | Siemens Dimension              |
|                 | ng/ml  | 5.73   | 4.36  | 7.10 |                                |
| Free T3<br>游离T3 | pmol/l | 22.9   | 17.2  | 28.6 | Abbott Architect               |
|                 | ng/dl  | 1.49   | 1.12  | 1.86 |                                |
|                 | pg/ml  | 14.9   | 11.2  | 18.6 |                                |
|                 | pmol/l | 22.3   | 16.7  | 27.9 | BioMerieux Vidas               |
|                 | ng/dl  | 1.45   | 1.09  | 1.81 |                                |
|                 | pg/ml  | 14.5   | 10.9  | 18.1 |                                |
|                 | pmol/l | 21.9   | 13.1  | 30.7 | Siemens Centaur XP/XPT/Classic |
|                 | ng/dl  | 1.42   | 0.852 | 1.99 |                                |
|                 | pg/ml  | 14.3   | 8.58  | 20.0 |                                |
|                 | pmol/l | 16.2   | 12.2  | 20.3 | Siemens Immulite 2000/2500     |
|                 | ng/dl  | 1.05   | 0.793 | 1.31 |                                |
|                 | pg/ml  | 10.5   | 7.94  | 13.1 |                                |
|                 | pmol/l | 15.8   | 11.9  | 19.8 | Siemens Immulite 1000          |
|                 | ng/dl  | 1.03   | 0.774 | 1.29 |                                |
|                 | pg/ml  | 10.3   | 7.75  | 12.9 |                                |
|                 | pmol/l | 17.4   | 13.1  | 21.8 | Beckman Dxl800                 |
|                 | ng/dl  | 1.13   | 0.852 | 1.41 |                                |
|                 | pg/ml  | 11.3   | 8.53  | 14.1 |                                |
|                 | pmol/l | 29.1   | 21.8  | 36.4 | Roche Elecsys                  |
|                 | ng/dl  | 1.89   | 1.42  | 2.36 |                                |
|                 | pg/ml  | 18.9   | 14.2  | 23.6 |                                |
|                 | pmol/l | 35.9   | 26.9  | 44.9 | Diasorin Liaison               |
|                 | ng/dl  | 2.33   | 1.75  | 2.91 |                                |
|                 | pg/ml  | 23.4   | 17.5  | 29.3 |                                |
|                 | pmol/l | 19.0   | 14.3  | 23.8 | Beckman Access                 |
|                 | ng/dl  | 1.24   | 0.930 | 1.55 |                                |
|                 | pg/ml  | 12.4   | 9.31  | 15.5 |                                |
|                 | pmol/l | 33.3   | 25.0  | 41.6 | Tosoh Series                   |
|                 | ng/dl  | 2.16   | 1.63  | 2.69 |                                |
|                 | pg/ml  | 21.7   | 16.3  | 27.1 |                                |
|                 | 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 |                                |
|                 | pmol/l | 28.2   | 21.2  | 35.3 | Roche Cobas E411               |
|                 | ng/dl  | 1.83   | 1.38  | 2.28 |                                |
|                 | pg/ml  | 18.4   | 13.8  | 23.0 |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range           |        |        |       |      |                                |
|-----------------|--------|--------|-------|------|--------------------------------|
| Analyte         | unit   | Target | low   | high | methods                        |
| Free T3<br>游离T3 | pmol/l | 29.3   | 22.0  | 36.6 | Roche Cobas 6000/8000          |
|                 | ng/dl  | 1.90   | 1.43  | 2.37 |                                |
|                 | pg/ml  | 19.1   | 14.3  | 23.9 |                                |
|                 | pmol/l | 21.5   | 12.9  | 30.1 | Siemens Centaur CP             |
|                 | ng/dl  | 1.40   | 0.840 | 1.96 |                                |
|                 | pg/ml  | 14.0   | 8.40  | 19.6 |                                |
|                 | pmol/l | 21.5   | 16.1  | 26.9 | Mindray CL-2000i               |
|                 | ng/dl  | 1.40   | 1.05  | 1.75 |                                |
|                 | pg/ml  | 14.0   | 10.5  | 17.5 |                                |
|                 | pmol/l | 35.9   | 26.9  | 44.9 | Diasorin Liaison XL            |
|                 | ng/dl  | 2.33   | 1.75  | 2.91 |                                |
|                 | pg/ml  | 23.4   | 17.5  | 29.3 |                                |
| Free T4<br>游离T4 | pmol/l | 41.3   | 31.0  | 51.6 | Abbott Architect               |
|                 | ng/dl  | 3.22   | 2.42  | 4.02 |                                |
|                 | pg/ml  | 32.2   | 24.2  | 40.2 |                                |
|                 | pmol/l | 41.3   | 31.0  | 51.6 | Siemens Centaur XP/XPT/Classic |
|                 | ng/dl  | 3.22   | 2.42  | 4.02 |                                |
|                 | pg/ml  | 32.2   | 24.2  | 40.2 |                                |
|                 | pmol/l | 47.7   | 35.8  | 59.6 | CIS RIA Coated tube            |
|                 | ng/dl  | 3.72   | 2.79  | 4.65 |                                |
|                 | pg/ml  | 37.2   | 27.9  | 46.5 |                                |
|                 | pmol/l | 59.7   | 44.8  | 74.6 | Siemens Immulite 2000/2500     |
|                 | ng/dl  | 4.66   | 3.49  | 5.83 |                                |
|                 | pg/ml  | 46.6   | 34.9  | 58.3 |                                |
|                 | pmol/l | 60.1   | 45.1  | 75.1 | Siemens Immulite 1000          |
|                 | ng/dl  | 4.69   | 3.52  | 5.86 |                                |
|                 | pg/ml  | 46.9   | 35.2  | 58.6 |                                |
|                 | pmol/l | 48.4   | 36.3  | 60.5 | Beckman Dxl800                 |
|                 | ng/dl  | 3.78   | 2.83  | 4.73 |                                |
|                 | pg/ml  | 37.8   | 28.3  | 47.3 |                                |
|                 | pmol/l | 60.0   | 45.0  | 75.0 | Roche Elecsys                  |
|                 | ng/dl  | 4.68   | 3.51  | 5.85 |                                |
|                 | pg/ml  | 46.8   | 35.1  | 58.5 |                                |
|                 | pmol/l | 81.7   | 61.3  | 102  | Diasorin Liaison               |
|                 | ng/dl  | 6.37   | 4.78  | 7.96 |                                |
|                 | pg/ml  | 63.7   | 47.8  | 79.6 |                                |
|                 | pmol/l | 45.1   | 33.8  | 56.4 | Beckman Access                 |
|                 | ng/dl  | 3.52   | 2.64  | 4.40 |                                |
|                 | pg/ml  | 35.2   | 26.4  | 44.0 |                                |
|                 | pmol/l | 60.4   | 45.3  | 75.5 | Tosoh Series                   |
|                 | ng/dl  | 4.71   | 3.53  | 5.89 |                                |
|                 | pg/ml  | 47.1   | 35.3  | 58.9 |                                |
|                 | 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 |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                |        |        |      |      |                                |
|----------------------|--------|--------|------|------|--------------------------------|
| Analyte              | unit   | Target | low  | high | methods                        |
| Free T4<br>游离T4      | pmol/l | 57.9   | 43.4 | 72.4 | Roche Cobas 6000/8000          |
|                      | ng/dl  | 4.52   | 3.39 | 5.65 |                                |
|                      | pg/ml  | 45.2   | 33.9 | 56.5 |                                |
|                      | pmol/l | 47.0   | 35.3 | 58.8 | Immunotech IRMA                |
|                      | ng/dl  | 3.67   | 2.75 | 4.59 |                                |
|                      | pg/ml  | 36.7   | 27.5 | 45.9 |                                |
|                      | pmol/l | 59.1   | 44.3 | 73.9 | Roche Cobas E411               |
|                      | ng/dl  | 4.61   | 3.46 | 5.76 |                                |
|                      | pg/ml  | 46.1   | 34.6 | 57.6 |                                |
|                      | pmol/l | 62.3   | 46.7 | 77.9 | Biomerieux Vidas FT4N Kit      |
|                      | ng/dl  | 4.86   | 3.64 | 6.08 |                                |
|                      | pg/ml  | 48.6   | 36.4 | 60.8 |                                |
|                      | pmol/l | 44.1   | 33.1 | 55.1 | Siemens Centaur CP             |
|                      | ng/dl  | 3.44   | 2.58 | 4.30 |                                |
|                      | pg/ml  | 34.4   | 25.8 | 43.0 |                                |
|                      | pmol/l | 44.1   | 33.1 | 55.1 | Mindray CL-2000i               |
|                      | ng/dl  | 3.44   | 2.58 | 4.30 |                                |
|                      | pg/ml  | 34.4   | 25.8 | 43.0 |                                |
|                      | pmol/l | 89.0   | 66.8 | 111  | Diasorin Liaison XL            |
|                      | ng/dl  | 6.94   | 5.21 | 8.67 |                                |
|                      | pg/ml  | 69.4   | 52.1 | 86.7 |                                |
| FSH<br>卵泡刺激素 ( FSH ) | mU/ml  | 54.4   | 43.5 | 65.3 | Abbott Architect               |
|                      | mU/ml  | 73.1   | 58.5 | 87.7 | BioMerieux Vidas               |
|                      | mU/ml  | 77.5   | 60.5 | 94.5 | Siemens Centaur XP/XPT/Classic |
|                      | mU/ml  | 60.5   | 48.4 | 72.6 | Siemens Immulite 2000/2500     |
|                      | mU/ml  | 59.0   | 47.2 | 70.8 | Siemens Immulite 1000          |
|                      | mU/ml  | 62.7   | 50.2 | 75.2 | Beckman Dxl800                 |
|                      | mU/ml  | 56.7   | 45.4 | 68.0 | Roche/BM Elecsys               |
|                      | mU/ml  | 75.5   | 60.4 | 90.6 | Diasorin Liaison               |
|                      | mU/ml  | 62.3   | 49.8 | 74.8 | Beckman Access                 |
|                      | mU/ml  | 56.9   | 45.5 | 68.3 | Tosoh Series                   |
|                      | mU/ml  | 45.6   | 36.5 | 54.7 | Vitros ECI                     |
|                      | mU/ml  | 58.7   | 47.0 | 70.4 | Roche Cobas E411               |
|                      | mU/ml  | 55.7   | 44.6 | 66.8 | Roche Cobas 6000/8000          |
|                      | mU/ml  | 48.5   | 38.8 | 58.2 | Immunotech IRMA                |
|                      | mU/ml  | 48.9   | 39.1 | 58.7 | Fujirebio Lumipulse G Series   |
|                      | mU/ml  | 68.1   | 53.1 | 83.1 | Siemens Centaur CP             |
|                      | mU/ml  | 84.4   | 67.5 | 101  | Diasorin Liaison XL            |
| Gentamicin<br>庆大霉素   | µmol/l | 11.0   | 8.80 | 13.2 | Roche Integra                  |
|                      | µg/ml  | 5.26   | 4.21 | 6.31 |                                |
|                      | µmol/l | 11.6   | 9.28 | 13.9 | Siemens Dimension Vista        |
|                      | µg/ml  | 5.54   | 4.44 | 6.64 |                                |
|                      | µmol/l | 9.55   | 7.64 | 11.5 | Roche Cobas 6000/8000          |
|                      | µg/ml  | 4.56   | 3.65 | 5.47 |                                |
|                      | µmol/l | 11.7   | 9.36 | 14.0 | Gravimetric                    |
|                      | µg/ml  | 5.59   | 4.47 | 6.69 |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                            |               |        |      |      |                                |
|----------------------------------|---------------|--------|------|------|--------------------------------|
| Analyte                          | unit          | Target | low  | high | methods                        |
| Growth Hormone (GH)<br>生长激素 (GH) | μU/ml         | 43.8   | 35.0 | 52.6 | CIS IRMA                       |
|                                  | ng/ml         | 14.6   | 11.7 | 17.5 |                                |
|                                  | μU/ml         | 43.8   | 35.0 | 52.6 | Siemens Immulite 2000/2500     |
|                                  | ng/ml         | 14.6   | 11.7 | 17.5 |                                |
|                                  | μU/ml         | 43.5   | 34.8 | 52.2 | Siemens Immulite 1000          |
|                                  | ng/ml         | 14.5   | 11.6 | 17.4 |                                |
|                                  | μU/ml         | 36.9   | 29.5 | 44.3 | Beckman Dxl800                 |
|                                  | ng/ml         | 12.3   | 9.82 | 14.8 |                                |
|                                  | μU/ml         | 38.3   | 30.6 | 46.0 | Beckman Access                 |
|                                  | ng/ml         | 12.8   | 10.2 | 15.4 |                                |
|                                  | μU/ml         | 45.8   | 36.6 | 55.0 | Tosoh Series                   |
|                                  | ng/ml         | 15.3   | 12.2 | 18.4 |                                |
|                                  | μU/ml         | 40.4   | 32.3 | 48.5 | Diasorin Liaison               |
|                                  | ng/ml         | 13.5   | 10.8 | 16.2 |                                |
|                                  | μU/ml         | 41.5   | 33.2 | 49.8 | Roche Cobas E411               |
|                                  | ng/ml         | 13.8   | 11.1 | 16.5 |                                |
|                                  | μU/ml         | 39.1   | 31.3 | 46.9 | Roche Cobas 6000/8000          |
|                                  | ng/ml         | 13.0   | 10.4 | 15.6 |                                |
| Immunoglobulin E<br>免疫球蛋白 E      | μU/ml         | 41.8   | 33.4 | 50.2 | IDS iSYS                       |
|                                  | ng/ml         | 13.9   | 11.1 | 16.7 |                                |
|                                  | μU/ml         | 38.5   | 30.8 | 46.2 | Diasorin Liaison XL            |
|                                  | ng/ml         | 12.8   | 10.3 | 15.3 |                                |
|                                  | KIU/I = IU/ml | 537    | 430  | 644  | Abbott Architect               |
|                                  | KIU/I = IU/ml | 493    | 394  | 592  | Beckman Immage                 |
|                                  | KIU/I = IU/ml | 554    | 443  | 665  | BioMerieux Vidas               |
|                                  | KIU/I = IU/ml | 605    | 363  | 847  | Siemens Centaur XP/XPT/Classic |
|                                  | KIU/I = IU/ml | 570    | 456  | 684  | Siemens Immulite 2000/2500     |
|                                  | KIU/I = IU/ml | 601    | 481  | 721  | Siemens Immulite 1000          |
|                                  | KIU/I = IU/ml | 574    | 459  | 689  | Roche Elecsys                  |
|                                  | KIU/I = IU/ml | 549    | 439  | 659  | Pharmacia Unicap               |
|                                  | KIU/I = IU/ml | 554    | 443  | 665  | Tosoh Series                   |
|                                  | KIU/I = IU/ml | 600    | 480  | 720  | Roche Cobas E411               |
| 胰岛素                              | KIU/I = IU/ml | 611    | 489  | 733  | Roche Cobas 6000/8000          |
|                                  | KIU/I = IU/ml | 483    | 386  | 580  | Fujirebio Lumipulse G Series   |
|                                  | KIU/I = IU/ml | 578    | 347  | 809  | Siemens Centaur CP             |
|                                  | mU/I          | 24.8   | 18.6 | 31.0 | Siemens Centaur XP/XPT/Classic |
|                                  | μU/ml         | 24.8   | 18.6 | 31.0 |                                |
|                                  | mU/I          | 11.6   | 8.70 | 14.5 | Siemens Immulite 1000          |
|                                  | μU/ml         | 11.6   | 8.70 | 14.5 |                                |
|                                  | mU/I          | 11.1   | 8.33 | 13.9 | Siemens Immulite 2000          |
|                                  | μU/ml         | 11.1   | 8.33 | 13.9 |                                |
|                                  | mU/I          | 32.9   | 24.7 | 41.1 | Roche Elecsys                  |
|                                  | μU/ml         | 32.9   | 24.7 | 41.1 |                                |
|                                  | mU/I          | 26.4   | 19.8 | 33.0 | Beckman Access                 |
|                                  | μU/ml         | 26.4   | 19.8 | 33.0 |                                |
|                                  | mU/I          | 25.9   | 19.4 | 32.4 | Abbott Architect               |
|                                  | μU/ml         | 25.9   | 19.4 | 32.4 |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                                  |        |        |      |      |                                |
|----------------------------------------|--------|--------|------|------|--------------------------------|
| Analyte                                | unit   | Target | low  | high | methods                        |
| Insulin<br>胰岛素                         | mU/l   | 49.7   | 37.3 | 62.1 | Tosoh Series                   |
|                                        | μU/ml  | 49.7   | 37.3 | 62.1 |                                |
|                                        | mU/l   | 33.4   | 25.1 | 41.8 | Roche Cobas E411               |
|                                        | μU/ml  | 33.4   | 25.1 | 41.8 |                                |
|                                        | mU/l   | 25.1   | 18.8 | 31.4 | Beckman Dxl 600/800            |
|                                        | μU/ml  | 25.1   | 18.8 | 31.4 |                                |
|                                        | mU/l   | 35.5   | 26.6 | 44.4 | Diasorin Liaison               |
|                                        | μU/ml  | 35.5   | 26.6 | 44.4 |                                |
|                                        | mU/l   | 33.8   | 25.4 | 42.3 | Roche Cobas 6000/8000          |
|                                        | μU/ml  | 33.8   | 25.4 | 42.3 |                                |
|                                        | mU/l   | 30.1   | 22.6 | 37.6 | Fujirebio Lumipulse G Series   |
|                                        | μU/ml  | 30.1   | 22.6 | 37.6 |                                |
|                                        | mU/l   | 26.8   | 20.1 | 33.5 | Siemens Centaur CP             |
|                                        | μU/ml  | 26.8   | 20.1 | 33.5 |                                |
|                                        | mU/l   | 35.8   | 26.9 | 44.8 | Diasorin Liaison XL            |
|                                        | μU/ml  | 35.8   | 26.9 | 44.8 |                                |
| Luteinising Hormone (LH)<br>促黄体生成素(LH) | mU/ml  | 40.8   | 32.6 | 49.0 | Abbott Architect               |
|                                        | mU/ml  | 50.6   | 40.5 | 60.7 | BioMerieux Vidas               |
|                                        | mU/ml  | 46.5   | 35.8 | 57.2 | Siemens Centaur XP/XPT/Classic |
|                                        | mU/ml  | 75.7   | 60.6 | 90.8 | Siemens Immulite 2000          |
|                                        | mU/ml  | 77.5   | 62.0 | 93.0 | Siemens Immulite 1000          |
|                                        | mU/ml  | 38.2   | 30.6 | 45.8 | Beckman Dxl800                 |
|                                        | mU/ml  | 53.0   | 42.4 | 63.6 | Roche Elecsys                  |
|                                        | mU/ml  | 62.6   | 50.1 | 75.1 | Diasorin Liaison               |
|                                        | mU/ml  | 39.2   | 31.4 | 47.0 | Beckman Access                 |
|                                        | mU/ml  | 45.6   | 36.5 | 54.7 | Tosoh Series                   |
|                                        | mU/ml  | 52.8   | 42.2 | 63.4 | Vitros Eci                     |
|                                        | mU/ml  | 52.7   | 42.2 | 63.2 | Roche Cobas E411               |
|                                        | mU/ml  | 52.4   | 41.9 | 62.9 | Roche Cobas 6000/8000          |
|                                        | mU/ml  | 47.0   | 37.6 | 56.4 | Fujirebio Lumipulse G Series   |
|                                        | mU/ml  | 50.5   | 38.9 | 62.1 | Siemens Centaur CP             |
|                                        | mU/ml  | 56.9   | 45.5 | 68.3 | Mindray CL-2000i               |
|                                        | mU/ml  | 64.6   | 51.7 | 77.5 | Diasorin Liaison XL            |
| Oestradiol<br>雌二醇                      | pmol/l | 1436   | 1149 | 1723 | Abbott Architect               |
|                                        | pg/ml  | 391    | 313  | 469  |                                |
|                                        | pmol/l | 3146   | 2517 | 3775 | BioMerieux Vidas               |
|                                        | pg/ml  | 856    | 685  | 1027 |                                |
|                                        | pmol/l | 2790   | 1730 | 3850 | Siemens Centaur XP/XPT/Classic |
|                                        | pg/ml  | 759    | 471  | 1047 |                                |
|                                        | pmol/l | 2508   | 2006 | 3010 | Siemens Immulite 2000/2500     |
|                                        | pg/ml  | 682    | 546  | 818  |                                |
|                                        | pmol/l | 2495   | 1996 | 2994 | Siemens Immulite 1000          |
|                                        | pg/ml  | 679    | 543  | 815  |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                 |        |        |       |       |                                               |
|-----------------------|--------|--------|-------|-------|-----------------------------------------------|
| Analyte               | unit   | Target | low   | high  | methods                                       |
| Oestradiol<br>雌二醇     | pmol/l | 2204   | 1763  | 2645  | Beckman Dxl800                                |
|                       | pg/ml  | 599    | 480   | 718   |                                               |
|                       | pmol/l | 1663   | 1330  | 1996  | Roche Elecsys (Estradiol II)                  |
|                       | pg/ml  | 452    | 362   | 542   |                                               |
|                       | pmol/l | 2394   | 1915  | 2873  | Beckman Access                                |
|                       | pg/ml  | 651    | 521   | 781   |                                               |
|                       | pmol/l | 2152   | 1722  | 2582  | Tosoh (E2)                                    |
|                       | pg/ml  | 585    | 468   | 702   |                                               |
|                       | pmol/l | 2655   | 2124  | 3186  | Vitros ECI                                    |
|                       | pg/ml  | 722    | 578   | 866   |                                               |
|                       | pmol/l | 1685   | 1348  | 2022  | Roche Cobas 6000/8000 (Estradiol II)          |
|                       | pg/ml  | 458    | 367   | 549   |                                               |
|                       | pmol/l | 1704   | 1363  | 2045  | Roche Cobas 4000/E411 (Estradiol II)          |
|                       | pg/ml  | 463    | 371   | 555   |                                               |
|                       | pmol/l | 2746   | 1703  | 3789  | Siemens Centaur XP/XPT/Classic Enhanced (eE2) |
|                       | pg/ml  | 747    | 463   | 1031  |                                               |
|                       | pmol/l | 2068   | 1654  | 2482  | Tosoh (iE2-hsE2)                              |
|                       | pg/ml  | 562    | 450   | 674   |                                               |
|                       | pmol/l | 2894   | 1794  | 3994  | Siemens Centaur CP                            |
|                       | pg/ml  | 787    | 488   | 1086  |                                               |
|                       | pmol/l | 2919   | 1810  | 4028  | Siemens Centaur CP Enhanced (eE2)             |
|                       | pg/ml  | 794    | 492   | 1096  |                                               |
|                       | pmol/l | 2309   | 1847  | 2771  | Fujirebio Lumipulse G Series                  |
|                       | pg/ml  | 628    | 502   | 754   |                                               |
| Paracetamol<br>扑热息痛   | pmol/l | 1702   | 1362  | 2042  | Roche Cobas 6000/8000 (Estradiol III)         |
|                       | pg/ml  | 463    | 370   | 556   |                                               |
|                       | pmol/l | 1699   | 1359  | 2039  | Roche Elecsys (Estradiol III)                 |
|                       | pg/ml  | 462    | 370   | 554   |                                               |
|                       | pmol/l | 1690   | 1352  | 2028  | Roche Cobas 4000/E411 (Estradiol III)         |
|                       | pg/ml  | 460    | 368   | 552   |                                               |
|                       | pmol/l | 1344   | 1075  | 1613  | Diasorin Liaison XL                           |
|                       | pg/ml  | 366    | 292   | 440   |                                               |
|                       | mmol/l | 0.463  | 0.368 | 0.552 | Roche Integra                                 |
|                       | mg/l   | 69.6   | 55.7  | 83.5  |                                               |
| Phenobarbital<br>苯巴比妥 | mmol/l | 0.500  | 0.400 | 0.600 | Abbott Architect                              |
|                       | mg/l   | 75.7   | 60.5  | 90.9  |                                               |
|                       | mmol/l | 0.499  | 0.400 | 0.600 | Roche Cobas 6000/8000                         |
|                       | mg/l   | 75.7   | 60.5  | 90.9  |                                               |
|                       | mmol/l | 0.529  | 0.420 | 0.630 | Gravimetric                                   |
|                       | mg/l   | 80.0   | 63.5  | 95.3  |                                               |
|                       | μmol/l | 123    | 98.4  | 148   | Abbott Architect                              |
|                       | μg/ml  | 28.5   | 22.8  | 34.2  |                                               |
|                       | μmol/l | 121    | 96.8  | 145   | Roche Cobas 6000/8000                         |
|                       | μg/ml  | 28.1   | 22.5  | 33.7  |                                               |
|                       | μmol/l | 122    | 97.6  | 146   | Siemens Immulite 2000/2500                    |
|                       | μg/ml  | 28.3   | 22.6  | 34.0  |                                               |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                 |        |        |      |      |                                 |
|-----------------------|--------|--------|------|------|---------------------------------|
| Analyte               | unit   | Target | low  | high | methods                         |
| Phenobarbital<br>苯巴比妥 | μmol/l | 117    | 93.6 | 140  | Beckman AU400/600/640/2700/5400 |
|                       | μg/ml  | 27.1   | 21.7 | 32.5 |                                 |
|                       | μmol/l | 161    | 117  | 205  | Siemens Centaur XP/XPT/Classic  |
|                       | μg/ml  | 37.4   | 27.3 | 47.5 |                                 |
|                       | μmol/l | 116    | 92.8 | 139  | Roche Integra                   |
|                       | μg/ml  | 26.9   | 21.5 | 32.3 |                                 |
|                       | μmol/l | 122    | 97.6 | 146  | Siemens Immulite 1000           |
|                       | μg/ml  | 28.3   | 22.6 | 34.0 |                                 |
| Phenytoin<br>苯妥英钠     | μmol/l | 113    | 90.4 | 136  | Beckman DxC                     |
|                       | μg/ml  | 26.2   | 21.0 | 31.4 |                                 |
|                       | μmol/l | 121    | 96.8 | 145  | Gravimetric                     |
|                       | μg/ml  | 28.1   | 22.5 | 33.6 |                                 |
|                       | μmol/l | 93.5   | 74.8 | 112  | Abbott Architect                |
|                       | μg/ml  | 23.6   | 18.9 | 28.3 |                                 |
|                       | μmol/l | 116    | 90.5 | 142  | Siemens Centaur XP/XPT/Classic  |
|                       | μg/ml  | 29.3   | 22.9 | 35.7 |                                 |
|                       | μmol/l | 107    | 85.6 | 128  | Siemens Dimension               |
|                       | μg/ml  | 27.0   | 21.6 | 32.4 |                                 |
|                       | μmol/l | 87.9   | 70.3 | 105  | Siemens Immulite 2000/2500      |
|                       | μg/ml  | 22.2   | 17.8 | 26.6 |                                 |
|                       | μmol/l | 90.1   | 72.1 | 108  | Siemens Immulite 1000           |
|                       | μg/ml  | 22.8   | 18.2 | 27.4 |                                 |
|                       | μmol/l | 92.9   | 74.3 | 111  | Roche Integra                   |
|                       | μg/ml  | 23.5   | 18.8 | 28.2 |                                 |
| Primidone<br>扑米酮      | μmol/l | 96.8   | 77.4 | 116  | Vitros                          |
|                       | μg/ml  | 24.4   | 19.5 | 29.3 |                                 |
|                       | μmol/l | 92.7   | 74.2 | 111  | Roche Cobas 6000/8000           |
|                       | μg/ml  | 23.4   | 18.7 | 28.1 |                                 |
| Progesterone<br>孕酮    | μmol/l | 90.6   | 72.5 | 109  | Beckman DxC                     |
|                       | μg/ml  | 22.9   | 18.3 | 27.5 |                                 |
|                       | μmol/l | 99.8   | 79.8 | 120  | Gravimetric                     |
|                       | μg/ml  | 25.2   | 20.1 | 30.3 |                                 |
|                       | nmol/l | 90.7   | 72.6 | 109  | Abbott Architect                |
|                       | ng/ml  | 28.4   | 22.7 | 34.1 |                                 |
|                       | nmol/l | 150    | 120  | 180  | BioMerieux Vidas                |
|                       | ng/ml  | 47.0   | 37.6 | 56.4 |                                 |
|                       | nmol/l | 74.5   | 52.9 | 96.1 | Siemens Centaur XP/XPT/Classic  |
|                       | ng/ml  | 23.3   | 16.5 | 30.1 |                                 |
|                       | nmol/l | 69.3   | 55.4 | 83.2 | Siemens Immulite 2000/2500      |
|                       | ng/ml  | 21.7   | 17.3 | 26.1 |                                 |
|                       | nmol/l | 80.2   | 64.2 | 96.2 | Siemens Immulite 1000           |
|                       | ng/ml  | 25.1   | 20.1 | 30.1 |                                 |
|                       | nmol/l | 100    | 80.0 | 120  | Beckman Dxl Prog Cal 33555      |
|                       | ng/ml  | 31.3   | 25.0 | 37.6 |                                 |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range              |        |        |      |      |                                          |
|--------------------|--------|--------|------|------|------------------------------------------|
| Analyte            | unit   | Target | low  | high | methods                                  |
| Progesterone<br>孕酮 | nmol/l | 103    | 82.4 | 124  | Roche Elecsys (Prog. II)                 |
|                    | ng/ml  | 32.2   | 25.8 | 38.6 |                                          |
|                    | nmol/l | 100    | 80.0 | 120  | Beckman Access Prog Cal 33555            |
|                    | ng/ml  | 31.3   | 25.0 | 37.6 |                                          |
|                    | nmol/l | 114    | 91.2 | 137  | Tosoh Series                             |
|                    | ng/ml  | 35.7   | 28.5 | 42.9 |                                          |
|                    | nmol/l | 107    | 85.6 | 128  | Vitros ECI                               |
|                    | ng/ml  | 33.5   | 26.8 | 40.2 |                                          |
|                    | nmol/l | 103    | 82.4 | 124  | Roche Cobas 4000/e411 (Prog. II)         |
|                    | ng/ml  | 32.2   | 25.8 | 38.6 |                                          |
|                    | nmol/l | 106    | 84.8 | 127  | Roche Cobas 6000/8000 (Prog. II)         |
|                    | ng/ml  | 33.2   | 26.5 | 39.9 |                                          |
|                    | nmol/l | 86.6   | 69.3 | 104  | Diasorin Liaison                         |
|                    | ng/ml  | 27.1   | 21.7 | 32.5 |                                          |
|                    | nmol/l | 99.0   | 79.2 | 119  | Beckman Dxl Prog DE Cal A80773           |
|                    | ng/ml  | 31.0   | 24.8 | 37.2 |                                          |
|                    | nmol/l | 101    | 80.8 | 121  | Beckman Access Prog DE Cal A80773        |
|                    | ng/ml  | 31.6   | 25.3 | 37.9 |                                          |
|                    | nmol/l | 77.5   | 55.0 | 100  | Siemens Centaur CP                       |
|                    | ng/ml  | 24.3   | 17.3 | 31.3 |                                          |
| Prolactin<br>催乳素   | nmol/l | 106    | 84.8 | 127  | Mindray CL-2000i                         |
|                    | ng/ml  | 33.2   | 26.5 | 39.9 |                                          |
|                    | nmol/l | 103    | 82.4 | 124  | Fujirebio Lumipulse G Series             |
|                    | ng/ml  | 32.2   | 25.8 | 38.6 |                                          |
|                    | nmol/l | 105    | 84.0 | 126  | Roche Cobas 6000/8000 (Prog. III)        |
|                    | ng/ml  | 32.9   | 26.3 | 39.5 |                                          |
|                    | nmol/l | 104    | 83.2 | 125  | Roche Elecsys (Prog. III)                |
|                    | ng/ml  | 32.6   | 26.0 | 39.2 |                                          |
|                    | nmol/l | 104    | 83.2 | 125  | Roche Cobas 4000/e411 (Prog. III)        |
|                    | ng/ml  | 32.6   | 26.0 | 39.2 |                                          |
|                    | μU/ml  | 1108   | 886  | 1330 | Abbott Architect                         |
|                    | μU/ml  | 1290   | 1032 | 1548 | BioMerieux Vidas                         |
|                    | μU/ml  | 914    | 686  | 1142 | Siemens Centaur XP/XPT/Classic           |
|                    | μU/ml  | 948    | 758  | 1138 | Siemens Immulite 2000/2500               |
|                    | μU/ml  | 1003   | 802  | 1204 | Siemens Immulite 1000                    |
|                    | μU/ml  | 856    | 685  | 1027 | Beckman Dxl800                           |
|                    | μU/ml  | 1029   | 823  | 1235 | Roche Elecsys                            |
|                    | μU/ml  | 1100   | 880  | 1320 | Diasorin Liaison                         |
|                    | μU/ml  | 879    | 703  | 1055 | Beckman Access                           |
|                    | μU/ml  | 1005   | 804  | 1206 | Tosoh Series                             |
|                    | μU/ml  | 917    | 734  | 1100 | Vitros ECI                               |
|                    | μU/ml  | 1024   | 819  | 1229 | Roche Elecsys/E170/Cobas 6000/8000 PRLII |
|                    | μU/ml  | 1011   | 809  | 1213 | Immunotech IRMA                          |
|                    | μU/ml  | 1061   | 849  | 1273 | Roche Cobas E411                         |
|                    | μU/ml  | 1019   | 815  | 1223 | Roche Cobas 6000/8000                    |
|                    | μU/ml  | 1243   | 994  | 1492 | Fujirebio Lumipulse G Series             |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                 |              |        |      |      |                                              |
|-----------------------|--------------|--------|------|------|----------------------------------------------|
| Analyte               | unit         | Target | low  | high | methods                                      |
| Prolactin<br>催乳素      | μU/ml        | 943    | 707  | 1179 | Siemens Centaur CP                           |
|                       | μU/ml        | 1230   | 984  | 1476 | Mindray CL-2000i                             |
|                       | μU/ml        | 1146   | 917  | 1375 | Diasorin Liaison XL                          |
| PSA Free<br>游离PSA     | ng/ml = μg/l | 28.5   | 21.4 | 35.6 | Abbott Architect                             |
|                       | ng/ml = μg/l | 21.1   | 15.8 | 26.4 | Siemens Centaur XP/XPT/Classic               |
|                       | ng/ml = μg/l | 22.4   | 16.8 | 28.0 | Siemens Immulite 2000/2500                   |
|                       | ng/ml = μg/l | 19.2   | 14.4 | 24.0 | Siemens Immulite 1000                        |
|                       | ng/ml = μg/l | 25.1   | 18.8 | 31.4 | Beckman DXI standardised to Hybritech        |
|                       | ng/ml = μg/l | 17.1   | 12.8 | 21.4 | Roche Elecsys                                |
|                       | ng/ml = μg/l | 13.9   | 10.4 | 17.4 | Diasorin Liaison                             |
|                       | ng/ml = μg/l | 25.7   | 19.3 | 32.1 | Beckman Access standardised to Hybritech     |
|                       | ng/ml = μg/l | 16.6   | 12.5 | 20.8 | Tosoh Series                                 |
|                       | ng/ml = μg/l | 17.3   | 13.0 | 21.6 | Roche Cobas E411                             |
|                       | ng/ml = μg/l | 17.2   | 12.9 | 21.5 | Roche Cobas 6000/8000                        |
|                       | ng/ml = μg/l | 25.3   | 19.0 | 31.6 | Beckman Dxl800 standardised to WHO IRP96/670 |
|                       | ng/ml = μg/l | 29.0   | 21.8 | 36.3 | Beckman Access standardised to WHO IRP96/670 |
|                       | ng/ml = μg/l | 9.02   | 6.77 | 11.3 | Ortho Vitros 3600/5600/ECi PSA II            |
|                       | ng/ml = μg/l | 18.5   | 13.9 | 23.1 | Fujirebio Lumipulse G Series                 |
|                       | ng/ml = μg/l | 12.9   | 9.68 | 16.1 | Diasorin Liaison XL                          |
| PSA Total<br>总PSA     | ng/ml = μg/l | 27.2   | 20.4 | 34.0 | Abbott Architect                             |
|                       | ng/ml = μg/l | 31.7   | 23.8 | 39.6 | BioMerieux Vidas                             |
|                       | ng/ml = μg/l | 31.4   | 23.6 | 39.3 | bioMerieux VIDAS TPSA                        |
|                       | ng/ml = μg/l | 31.2   | 23.4 | 39.0 | Siemens Centaur XP/XPT/Classic               |
|                       | ng/ml = μg/l | 13.2   | 9.90 | 16.5 | Siemens Immulite 2000/2500 1st generation    |
|                       | ng/ml = μg/l | 12.2   | 9.15 | 15.3 | Siemens Immulite 2000/2500 3rd generation    |
|                       | ng/ml = μg/l | 13.6   | 10.2 | 17.0 | Siemens Immulite 1000 1st generation         |
|                       | ng/ml = μg/l | 39.3   | 29.5 | 49.1 | Beckman Dxl standardisd to Hybritech         |
|                       | ng/ml = μg/l | 34.3   | 25.7 | 42.9 | Beckman Dxl800 standardised to WHO IRP96/670 |
|                       | ng/ml = μg/l | 36.8   | 27.6 | 46.0 | Roche Elecsys                                |
|                       | ng/ml = μg/l | 19.2   | 14.4 | 24.0 | Diasorin Liaison                             |
|                       | ng/ml = μg/l | 40.0   | 30.0 | 50.0 | Beckman Access standardised to Hybritech     |
|                       | ng/ml = μg/l | 40.0   | 30.0 | 50.0 | Beckman Access standardised to WHO IRP96/670 |
|                       | ng/ml = μg/l | 23.2   | 17.4 | 29.0 | Tosoh Series                                 |
|                       | ng/ml = μg/l | 36.1   | 27.1 | 45.1 | Vitros ECi                                   |
|                       | ng/ml = μg/l | 34.6   | 26.0 | 43.3 | CIS RIA Coated tube                          |
|                       | ng/ml = μg/l | 36.6   | 27.5 | 45.8 | Roche Cobas E411                             |
|                       | ng/ml = μg/l | 36.4   | 27.3 | 45.5 | Roche Cobas 6000/8000                        |
|                       | ng/ml = μg/l | 25.1   | 18.8 | 31.4 | Fujirebio Lumipulse G Series                 |
|                       | ng/ml = μg/l | 36.5   | 27.4 | 45.6 | Ortho Vitros 3600/5600/ECi PSA II            |
|                       | ng/ml = μg/l | 32.2   | 24.2 | 40.2 | Siemens Centaur CP                           |
|                       | ng/ml = μg/l | 20.4   | 15.3 | 25.5 | Diasorin Liaison XL                          |
| Salicylic Acid<br>水杨酸 | mmol/l       | 2.73   | 2.18 | 3.28 | Roche Integra                                |
|                       | mg/dl        | 37.7   | 30.1 | 45.3 |                                              |
|                       | mmol/l       | 2.90   | 2.32 | 3.48 | Abbott Architect                             |
|                       | mg/dl        | 40.1   | 32.0 | 48.2 |                                              |
|                       | mmol/l       | 2.88   | 2.30 | 3.46 | Gravimetric                                  |
|                       | mg/dl        | 39.8   | 31.8 | 47.8 |                                              |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range              |        |        |      |      |                                |
|--------------------|--------|--------|------|------|--------------------------------|
| Analyte            | unit   | Target | low  | high | methods                        |
| SHBG<br>性激素结合球蛋白   | nmol/l | 38.6   | 30.9 | 46.3 | Siemens Immulite 1000          |
|                    | nmol/l | 44.3   | 35.4 | 53.2 | Siemens Immulite 2000/2500     |
|                    | nmol/l | 45.6   | 36.5 | 54.7 | Roche Elecsys                  |
|                    | nmol/l | 42.6   | 34.1 | 51.1 | Abbott Architect               |
|                    | nmol/l | 44.5   | 35.6 | 53.4 | Roche Cobas E411               |
|                    | nmol/l | 44.5   | 35.6 | 53.4 | Roche Cobas 6000/8000          |
|                    | nmol/l | 43.7   | 35.0 | 52.4 | Beckman Access                 |
|                    | nmol/l | 41.6   | 33.3 | 49.9 | Beckman Dxl800                 |
| T Uptake甲状腺素结合力    | %U     | 38.7   | 31.0 | 46.4 | Siemens Immulite 2000          |
| Testosterone<br>睾酮 | 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 | 22.3   | 17.8 | 26.8 | BioMerieux Vidas               |
|                    | ng/ml  | 6.42   | 5.13 | 7.71 |                                |
|                    | ng/dl  | 642    | 513  | 771  |                                |
|                    | nmol/l | 23.8   | 17.4 | 30.2 | Siemens Centaur XP/XPT/Classic |
|                    | ng/ml  | 6.85   | 5.00 | 8.70 |                                |
|                    | ng/dl  | 685    | 500  | 870  |                                |
|                    | nmol/l | 32.9   | 26.3 | 39.5 | Siemens Immulite 2000/2500     |
|                    | ng/ml  | 9.48   | 7.57 | 11.4 |                                |
|                    | ng/dl  | 948    | 757  | 1139 |                                |
|                    | nmol/l | 47.3   | 37.8 | 56.8 | Siemens Immulite 1000          |
|                    | ng/ml  | 13.6   | 10.9 | 16.3 |                                |
|                    | ng/dl  | 1362   | 1089 | 1635 |                                |
|                    | nmol/l | 23.2   | 18.6 | 27.8 | Beckman Dxl800                 |
|                    | ng/ml  | 6.68   | 5.36 | 8.00 |                                |
|                    | ng/dl  | 668    | 536  | 800  |                                |
|                    | nmol/l | 25.9   | 20.7 | 31.1 | Beckman Access                 |
|                    | ng/ml  | 7.46   | 5.96 | 8.96 |                                |
|                    | ng/dl  | 746    | 596  | 896  |                                |
|                    | nmol/l | 40.1   | 32.1 | 48.1 | Tosoh Series                   |
|                    | ng/ml  | 11.5   | 9.24 | 13.8 |                                |
|                    | ng/dl  | 1155   | 924  | 1386 |                                |
|                    | nmol/l | 40.2   | 32.2 | 48.2 | Vitros ECI                     |
|                    | ng/ml  | 11.6   | 9.27 | 13.9 |                                |
|                    | ng/dl  | 1158   | 927  | 1389 |                                |
|                    | nmol/l | 28.6   | 22.9 | 34.3 | Roche Cobas 6000 Test 2        |
|                    | ng/ml  | 8.24   | 6.60 | 9.88 |                                |
|                    | ng/dl  | 824    | 660  | 988  |                                |
|                    | nmol/l | 28.5   | 22.8 | 34.2 | Roche Elecsys Test II          |
|                    | ng/ml  | 8.21   | 6.57 | 9.85 |                                |
|                    | ng/dl  | 821    | 657  | 985  |                                |
|                    | nmol/l | 28.2   | 22.6 | 33.8 | Roche Cobas 4000/e411 Test II  |
|                    | ng/ml  | 8.12   | 6.51 | 9.73 |                                |
|                    | ng/dl  | 812    | 651  | 973  |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                   |        |        |      |      |                                  |
|-------------------------|--------|--------|------|------|----------------------------------|
| Analyte                 | unit   | Target | low  | high | methods                          |
| Testosterone<br>睾酮      | nmol/l | 27.8   | 22.2 | 33.4 | Abbott Architect 2nd Generation  |
|                         | ng/ml  | 8.01   | 6.39 | 9.63 |                                  |
|                         | ng/dl  | 801    | 639  | 963  |                                  |
|                         | nmol/l | 23.0   | 16.8 | 29.2 | Siemens Centaur CP               |
|                         | ng/ml  | 6.62   | 4.83 | 8.41 |                                  |
|                         | ng/dl  | 662    | 483  | 841  |                                  |
|                         | nmol/l | 22.5   | 18.0 | 27.0 | BioMerieux Vidas Testosterone II |
|                         | ng/ml  | 6.48   | 5.18 | 7.78 |                                  |
|                         | ng/dl  | 648    | 518  | 778  |                                  |
|                         | nmol/l | 39.6   | 31.7 | 47.5 | Mindray CL-2000i                 |
|                         | ng/ml  | 11.4   | 9.13 | 13.7 |                                  |
|                         | ng/dl  | 1140   | 913  | 1367 |                                  |
| Theophylline<br>茶碱      | nmol/l | 24.8   | 18.1 | 31.5 | Siemens Centaur TST II           |
|                         | ng/ml  | 7.14   | 5.21 | 9.07 |                                  |
|                         | ng/dl  | 714    | 521  | 907  |                                  |
|                         | nmol/l | 12.0   | 9.60 | 14.4 | Diasorin Liaison XL              |
|                         | ng/ml  | 3.46   | 2.76 | 4.16 |                                  |
|                         | ng/dl  | 346    | 276  | 416  |                                  |
|                         | μmol/l | 148    | 118  | 178  | Siemens Centaur XP/XPT/Classic   |
|                         | μg/ml  | 26.7   | 21.4 | 32.0 |                                  |
|                         | μmol/l | 165    | 132  | 198  | Roche Integra                    |
|                         | μg/ml  | 29.7   | 23.8 | 35.6 |                                  |
|                         | μmol/l | 206    | 165  | 247  | Vitros                           |
|                         | μg/ml  | 37.1   | 29.7 | 44.5 |                                  |
| Thyroglobulin<br>甲状腺球蛋白 | μmol/l | 144    | 115  | 173  | Abbott Architect                 |
|                         | μg/ml  | 25.9   | 20.7 | 31.1 |                                  |
|                         | μmol/l | 157    | 126  | 188  | Roche Cobas 6000/8000            |
|                         | μg/ml  | 28.3   | 22.7 | 33.9 |                                  |
|                         | μmol/l | 158    | 126  | 190  | Beckman DxC                      |
|                         | μg/ml  | 28.5   | 22.7 | 34.3 |                                  |
|                         | μmol/l | 145    | 116  | 174  | Beckman AU400/600/640/2700/5400  |
|                         | μg/ml  | 26.1   | 20.9 | 31.3 |                                  |
|                         | μmol/l | 166    | 133  | 199  | Gravimetric                      |
|                         | μg/ml  | 29.9   | 24.0 | 35.9 |                                  |
|                         | ng/ml  | 22.3   | 16.7 | 27.9 | Siemens Immulite 1000            |
|                         | ng/ml  | 26.5   | 19.9 | 33.1 | Siemens Immulite 2000            |
|                         | ng/ml  | 59.3   | 44.5 | 74.1 | Roche Elecsys                    |
|                         | ng/ml  | 50.1   | 37.6 | 62.6 | Beckman Dxl800                   |
|                         | ng/ml  | 58.1   | 43.6 | 72.6 | Roche Cobas E411                 |
|                         | ng/ml  | 57.6   | 43.2 | 72.0 | Roche Cobas 6000/8000            |
|                         | ng/ml  | 52.4   | 39.3 | 65.5 | Beckman Access                   |
|                         | ng/ml  | 57.8   | 43.4 | 72.3 | Abbott Architect 2000i           |
|                         | ng/ml  | 53.2   | 39.9 | 66.5 | Tosoh Series                     |
|                         | ng/ml  | 57.3   | 43.0 | 71.6 | Roche Cobas 6000 TGII            |
|                         | ng/ml  | 55.3   | 41.5 | 69.1 | Roche Elecsys TGII               |
|                         | ng/ml  | 57.9   | 43.4 | 72.4 | Roche Cobas 4000/E411 TGII       |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                                |               |        |       |       |                                               |
|--------------------------------------|---------------|--------|-------|-------|-----------------------------------------------|
| Analyte                              | unit          | Target | low   | high  | methods                                       |
| 甲状腺球蛋白                               | ng/ml         | 27.3   | 20.5  | 34.1  | Diasorin Liaison XL                           |
| Thyroid Stimulating Hormone<br>促甲状腺素 | μU/ml = mIU/l | 17.5   | 14.0  | 21.0  | Abbott Architect                              |
|                                      | μU/ml = mIU/l | 21.5   | 17.2  | 25.8  | bioMerieux VIDAS TSH                          |
|                                      | μU/ml = mIU/l | 20.9   | 16.7  | 25.1  | bioMerieux VIDAS TSH3 Ultrasensitive          |
|                                      | μU/ml = mIU/l | 22.5   | 15.3  | 29.7  | Siemens Centaur XP/XPT/Classic                |
|                                      | μU/ml = mIU/l | 22.4   | 17.9  | 26.9  | CIS IRMA                                      |
|                                      | μU/ml = mIU/l | 21.8   | 14.8  | 28.8  | Siemens Centaur XP/XPT/Classic 3rd Generation |
|                                      | μU/ml = mIU/l | 20.5   | 16.4  | 24.6  | Siemens Dimension                             |
|                                      | μU/ml = mIU/l | 21.6   | 17.3  | 25.9  | Siemens Immulite 2000/2500                    |
|                                      | μU/ml = mIU/l | 22.0   | 17.6  | 26.4  | Siemens Immulite 1000                         |
|                                      | μU/ml = mIU/l | 19.4   | 15.5  | 23.3  | Beckman Dxl800 Fast TSH                       |
|                                      | μU/ml = mIU/l | 19.0   | 15.2  | 22.8  | Beckman Dxl800                                |
|                                      | μU/ml = mIU/l | 20.3   | 16.2  | 24.4  | Roche Elecsys                                 |
|                                      | μU/ml = mIU/l | 25.9   | 20.7  | 31.1  | Diasorin Liaison                              |
|                                      | μU/ml = mIU/l | 18.8   | 15.0  | 22.6  | Beckman Access Fast TSH                       |
|                                      | μU/ml = mIU/l | 19.4   | 15.5  | 23.3  | Beckman Access hyperTSH 3rd Generation        |
|                                      | μU/ml = mIU/l | 22.5   | 18.0  | 27.0  | Tosoh Series                                  |
|                                      | μU/ml = mIU/l | 28.5   | 22.8  | 34.2  | Vitros ECI                                    |
|                                      | μU/ml = mIU/l | 20.6   | 16.5  | 24.7  | Roche Cobas E411                              |
|                                      | μU/ml = mIU/l | 20.7   | 16.6  | 24.8  | Roche Cobas 6000/8000                         |
|                                      | μU/ml = mIU/l | 18.7   | 15.0  | 22.4  | Beckman Dxl800 Hyper TSH                      |
|                                      | μU/ml = mIU/l | 22.6   | 15.4  | 29.8  | Siemens Centaur XP/XPT/Classic TSH3-Ultra     |
|                                      | μU/ml = mIU/l | 21.3   | 14.5  | 28.1  | Siemens Centaur CP                            |
|                                      | μU/ml = mIU/l | 22.7   | 15.4  | 30.0  | Siemens Centaur CP TSH3-Ultra                 |
|                                      | μU/ml = mIU/l | 25.9   | 20.7  | 31.1  | Mindray CL-2000i                              |
|                                      | μU/ml = mIU/l | 19.0   | 15.2  | 22.8  | Beckman Dxl 600/800 Access (3rd IS)           |
|                                      | μU/ml = mIU/l | 26.4   | 21.1  | 31.7  | Diasorin Liaison XL                           |
| Tobramycin<br>妥布霉素                   | μmol/l        | 10.3   | 8.24  | 12.4  | Gravimetric                                   |
|                                      | μg/ml         | 4.82   | 3.86  | 5.80  |                                               |
| Total Beta hCG<br>总 β- hCG           | mU/ml=IU/l    | 159    | 127   | 191   | Abbott Architect                              |
|                                      | IU/ml         | 0.159  | 0.127 | 0.191 |                                               |
|                                      | mU/ml=IU/l    | 692    | 554   | 830   | BioMerieux Vidas                              |
|                                      | IU/ml         | 0.692  | 0.554 | 0.830 |                                               |
|                                      | mU/ml=IU/l    | 118    | 70.8  | 165   | Siemens Centaur XP/XPT/Classic                |
|                                      | IU/ml         | 0.118  | 0.071 | 0.165 |                                               |
|                                      | mU/ml=IU/l    | 783    | 626   | 940   | Siemens Dimension                             |
|                                      | IU/ml         | 0.783  | 0.626 | 0.940 |                                               |
|                                      | mU/ml=IU/l    | 1076   | 861   | 1291  | Siemens Immulite 2000                         |
|                                      | IU/ml         | 1.08   | 0.861 | 1.30  |                                               |
|                                      | mU/ml=IU/l    | 950    | 760   | 1140  | Siemens Immulite 1000                         |
|                                      | IU/ml         | 0.950  | 0.760 | 1.14  |                                               |
|                                      | mU/ml=IU/l    | 146    | 117   | 175   | Beckman Dxl800                                |
|                                      | IU/ml         | 0.146  | 0.117 | 0.175 |                                               |
|                                      | mU/ml=IU/l    | 158    | 126   | 190   | Diasorin Liaison                              |
|                                      | IU/ml         | 0.158  | 0.126 | 0.190 |                                               |
|                                      | mU/ml=IU/l    | 358    | 286   | 430   | Roche Cobas Core EIA                          |
|                                      | IU/ml         | 0.358  | 0.286 | 0.430 |                                               |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                      |            |        |       |       |                                    |
|----------------------------|------------|--------|-------|-------|------------------------------------|
| Analyte                    | unit       | Target | low   | high  | methods                            |
| Total Beta hCG<br>总 β- hCG | mU/ml=IU/l | 135    | 108   | 162   | Beckman Access                     |
|                            | IU/ml      | 0.135  | 0.108 | 0.162 |                                    |
|                            | mU/ml=IU/l | 687    | 550   | 824   | Tosoh Series                       |
|                            | IU/ml      | 0.687  | 0.550 | 0.824 |                                    |
|                            | mU/ml=IU/l | 733    | 586   | 880   | Vitros ECI                         |
|                            | IU/ml      | 0.733  | 0.586 | 0.880 |                                    |
|                            | mU/ml=IU/l | 248    | 198   | 298   | Roche STAT (Intact)                |
|                            | IU/ml      | 0.248  | 0.198 | 0.298 |                                    |
|                            | mU/ml=IU/l | 361    | 289   | 433   | Roche hCG+Beta                     |
|                            | IU/ml      | 0.361  | 0.289 | 0.433 |                                    |
|                            | mU/ml=IU/l | 129    | 103   | 155   | Fujirebio Lumipulse G Series       |
|                            | IU/ml      | 0.129  | 0.103 | 0.155 |                                    |
|                            | mU/ml=IU/l | 141    | 113   | 169   | Beckman Access Total BhCG (5th IS) |
|                            | IU/ml      | 0.141  | 0.113 | 0.169 |                                    |
|                            | mU/ml=IU/l | 146    | 117   | 175   | Beckman Dxl Total BhCG (5th IS)    |
|                            | IU/ml      | 0.146  | 0.117 | 0.175 |                                    |
| Total T3<br>总T3            | mU/ml=IU/l | 118    | 70.8  | 165   | Siemens Centaur CP                 |
|                            | IU/ml      | 0.118  | 0.071 | 0.165 |                                    |
|                            | mU/ml=IU/l | 168    | 134   | 202   | Diasorin Liaison XL                |
|                            | IU/ml      | 0.168  | 0.134 | 0.202 |                                    |
|                            | nmol/l     | 5.23   | 3.92  | 6.54  | Abbott Architect                   |
|                            | ng/ml      | 3.40   | 2.55  | 4.25  |                                    |
|                            | ng/dl      | 340    | 255   | 425   |                                    |
|                            | nmol/l     | 6.04   | 4.53  | 7.55  | BioMerieux Vidas                   |
|                            | ng/ml      | 3.93   | 2.95  | 4.91  |                                    |
|                            | ng/dl      | 393    | 295   | 491   |                                    |
|                            | nmol/l     | 7.09   | 5.32  | 8.86  | Siemens Centaur XP/XPT/Classic     |
|                            | ng/ml      | 4.62   | 3.47  | 5.77  |                                    |
|                            | ng/dl      | 462    | 347   | 577   |                                    |
|                            | nmol/l     | 6.75   | 5.06  | 8.44  | Siemens Immulite 2000/2500         |
|                            | ng/ml      | 4.39   | 3.29  | 5.49  |                                    |
|                            | ng/dl      | 439    | 329   | 549   |                                    |
|                            | nmol/l     | 6.95   | 5.21  | 8.69  | Siemens Immulite 1000              |
|                            | ng/ml      | 4.52   | 3.39  | 5.65  |                                    |
|                            | ng/dl      | 452    | 339   | 565   |                                    |
|                            | nmol/l     | 5.94   | 4.46  | 7.43  | Beckman Dxl800                     |
|                            | ng/ml      | 3.87   | 2.90  | 4.84  |                                    |
|                            | ng/dl      | 387    | 290   | 484   |                                    |
|                            | nmol/l     | 7.02   | 5.27  | 8.78  | Roche Elecsys                      |
|                            | ng/ml      | 4.57   | 3.43  | 5.71  |                                    |
|                            | ng/dl      | 457    | 343   | 571   |                                    |
|                            | nmol/l     | 6.09   | 4.57  | 7.61  | Beckman Access                     |
|                            | ng/ml      | 3.96   | 2.98  | 4.94  |                                    |
|                            | ng/dl      | 396    | 298   | 494   |                                    |
|                            | nmol/l     | 6.23   | 4.67  | 7.79  | Tosoh Series                       |
|                            | ng/ml      | 4.06   | 3.04  | 5.08  |                                    |
|                            | ng/dl      | 406    | 304   | 508   |                                    |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range           |        |        |      |      |                                |
|-----------------|--------|--------|------|------|--------------------------------|
| Analyte         | unit   | Target | low  | high | methods                        |
| Total T3<br>总T3 | nmol/l | 7.20   | 5.40 | 9.00 | Vitros ECI                     |
|                 | ng/ml  | 4.69   | 3.52 | 5.86 |                                |
|                 | ng/dl  | 469    | 352  | 586  |                                |
|                 | nmol/l | 4.99   | 3.74 | 6.24 | CIS RIA Coated tube            |
|                 | ng/ml  | 3.25   | 2.43 | 4.07 |                                |
|                 | ng/dl  | 325    | 243  | 407  |                                |
|                 | nmol/l | 6.90   | 5.18 | 8.63 | Roche Cobas E411               |
|                 | ng/ml  | 4.49   | 3.37 | 5.61 |                                |
|                 | ng/dl  | 449    | 337  | 561  |                                |
|                 | nmol/l | 6.42   | 4.82 | 8.03 | Roche Cobas 6000/8000          |
|                 | ng/ml  | 4.18   | 3.14 | 5.22 |                                |
|                 | ng/dl  | 418    | 314  | 522  |                                |
|                 | nmol/l | 6.07   | 4.55 | 7.59 | ELISA                          |
|                 | ng/ml  | 3.95   | 2.96 | 4.94 |                                |
|                 | ng/dl  | 395    | 296  | 494  |                                |
|                 | nmol/l | 7.67   | 5.75 | 9.59 | Siemens Centaur CP             |
|                 | ng/ml  | 4.99   | 3.74 | 6.24 |                                |
|                 | ng/dl  | 499    | 374  | 624  |                                |
|                 | nmol/l | 4.99   | 3.74 | 6.24 | Diasorin Liaison XL            |
|                 | ng/ml  | 3.25   | 2.43 | 4.07 |                                |
|                 | ng/dl  | 325    | 243  | 407  |                                |
| Total T4<br>总T4 | nmol/l | 169    | 127  | 211  | Abbott Architect               |
|                 | µg/dl  | 13.2   | 9.91 | 16.5 |                                |
|                 | ng/ml  | 132    | 99.1 | 165  |                                |
|                 | nmol/l | 201    | 151  | 251  | BioMerieux Vidas               |
|                 | µg/dl  | 15.7   | 11.8 | 19.6 |                                |
|                 | ng/ml  | 157    | 118  | 196  |                                |
|                 | nmol/l | 189    | 132  | 246  | Siemens Centaur XP/XPT/Classic |
|                 | µg/dl  | 14.7   | 10.3 | 19.1 |                                |
|                 | ng/ml  | 147    | 103  | 191  |                                |
|                 | nmol/l | 178    | 134  | 223  | Siemens Immulite 2000/2500     |
|                 | µg/dl  | 13.9   | 10.5 | 17.3 |                                |
|                 | ng/ml  | 139    | 105  | 173  |                                |
|                 | nmol/l | 179    | 134  | 224  | Siemens Immulite 1000          |
|                 | µg/dl  | 14.0   | 10.5 | 17.5 |                                |
|                 | ng/ml  | 140    | 105  | 175  |                                |
|                 | nmol/l | 179    | 134  | 224  | Beckman DxI800                 |
|                 | µg/dl  | 14.0   | 10.5 | 17.5 |                                |
|                 | ng/ml  | 140    | 105  | 175  |                                |
|                 | nmol/l | 168    | 126  | 210  | Roche Elecsys                  |
|                 | µg/dl  | 13.1   | 9.83 | 16.4 |                                |
|                 | ng/ml  | 131    | 98.3 | 164  |                                |
|                 | nmol/l | 182    | 137  | 228  | Beckman Access                 |
|                 | µg/dl  | 14.2   | 10.7 | 17.7 |                                |
|                 | ng/ml  | 142    | 107  | 177  |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                |        |        |      |      |                                |
|----------------------|--------|--------|------|------|--------------------------------|
| Analyte              | unit   | Target | low  | high | methods                        |
| Total T4<br>总T4      | nmol/l | 166    | 125  | 208  | Tosoh Series                   |
|                      | µg/dl  | 12.9   | 9.75 | 16.1 |                                |
|                      | ng/ml  | 129    | 97.5 | 161  |                                |
|                      | nmol/l | 180    | 135  | 225  | Vitros Eci                     |
|                      | µg/dl  | 14.0   | 10.5 | 17.5 |                                |
|                      | ng/ml  | 140    | 105  | 175  |                                |
|                      | nmol/l | 152    | 114  | 190  | MP Biomedicals RIA             |
|                      | µg/dl  | 11.9   | 8.89 | 14.9 |                                |
|                      | ng/ml  | 119    | 88.9 | 149  |                                |
|                      | nmol/l | 193    | 145  | 241  | CIS RIA Coated tube            |
|                      | µg/dl  | 15.1   | 11.3 | 18.9 |                                |
|                      | ng/ml  | 151    | 113  | 189  |                                |
|                      | nmol/l | 167    | 125  | 209  | Roche Cobas E411               |
|                      | µg/dl  | 13.0   | 9.75 | 16.3 |                                |
|                      | ng/ml  | 130    | 97.5 | 163  |                                |
|                      | nmol/l | 167    | 125  | 209  | Roche Cobas 6000/8000          |
|                      | µg/dl  | 13.0   | 9.75 | 16.3 |                                |
|                      | ng/ml  | 130    | 97.5 | 163  |                                |
|                      | nmol/l | 128    | 96.0 | 160  | Immunotech IRMA                |
|                      | µg/dl  | 9.98   | 7.49 | 12.5 |                                |
|                      | ng/ml  | 100    | 74.9 | 125  |                                |
|                      | nmol/l | 177    | 133  | 221  | ELISA                          |
|                      | µg/dl  | 13.8   | 10.4 | 17.2 |                                |
|                      | ng/ml  | 138    | 104  | 172  |                                |
|                      | nmol/l | 251    | 188  | 314  | Boditech Med Inc i-CHROMA      |
|                      | µg/dl  | 19.6   | 14.7 | 24.5 |                                |
|                      | ng/ml  | 196    | 147  | 245  |                                |
|                      | nmol/l | 190    | 133  | 247  | Siemens Centaur CP             |
|                      | µg/dl  | 14.8   | 10.4 | 19.2 |                                |
|                      | ng/ml  | 148    | 104  | 192  |                                |
|                      | nmol/l | 137    | 103  | 171  | Diasorin Liaison XL            |
|                      | µg/dl  | 10.7   | 8.03 | 13.4 |                                |
|                      | ng/ml  | 107    | 80.3 | 134  |                                |
| Valproic Acid<br>丙戊酸 | µmol/l | 925    | 740  | 1110 | Abbott Architect               |
|                      | µg/ml  | 133    | 107  | 159  |                                |
|                      | µmol/l | 978    | 782  | 1174 | Siemens Centaur XP/XPT/Classic |
|                      | µg/ml  | 141    | 113  | 169  |                                |
|                      | µmol/l | 913    | 730  | 1096 | Siemens Dimension              |
|                      | µg/ml  | 132    | 105  | 159  |                                |
|                      | µmol/l | 987    | 790  | 1184 | Siemens Immulite 2000/2500     |
|                      | µg/ml  | 142    | 114  | 170  |                                |
|                      | µmol/l | 1001   | 801  | 1201 | Siemens Immulite 1000          |
|                      | µg/ml  | 144    | 116  | 172  |                                |
|                      | µmol/l | 914    | 731  | 1097 | Roche Integra                  |
|                      | µg/ml  | 132    | 105  | 159  |                                |

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

Cat. No. IA3111/IA3112 Lot. No. 1972EC Size 12 x 5ml / 4 x 5ml Expiry 2022-12-28

| Range                  |        |        |      |      |                                   |
|------------------------|--------|--------|------|------|-----------------------------------|
| Analyte                | unit   | Target | low  | high | methods                           |
| Valproic Acid<br>丙戊酸   | μmol/l | 997    | 798  | 1196 | Roche Cobas E411                  |
|                        | μg/ml  | 144    | 115  | 173  |                                   |
|                        | μmol/l | 948    | 758  | 1138 | Roche Cobas 6000/8000             |
|                        | μg/ml  | 137    | 109  | 165  |                                   |
|                        | μmol/l | 869    | 695  | 1043 | Beckman DxC                       |
|                        | μg/ml  | 125    | 100  | 150  |                                   |
|                        | μmol/l | 946    | 757  | 1135 | Beckman AU400/600/640/2700/5400   |
|                        | μg/ml  | 137    | 109  | 165  |                                   |
|                        | μmol/l | 1069   | 855  | 1283 | Siemens ADVIA 1200/1650/1800/2400 |
|                        | μg/ml  | 154    | 123  | 185  |                                   |
|                        | μmol/l | 1116   | 893  | 1339 | Gravimetric                       |
|                        | μg/ml  | 161    | 129  | 193  |                                   |
| Vancomycin<br>万古霉素     | μmol/l | 11.1   | 8.88 | 13.3 | Roche Integra                     |
|                        | μg/ml  | 16.5   | 13.2 | 19.8 |                                   |
|                        | μmol/l | 9.36   | 7.49 | 11.2 | Ortho Vitros Microslide Systems   |
|                        | μg/ml  | 13.9   | 11.1 | 16.7 |                                   |
|                        | μmol/l | 10.9   | 8.72 | 13.1 | Abbott Architect                  |
|                        | μg/ml  | 16.2   | 13.0 | 19.4 |                                   |
|                        | μmol/l | 8.98   | 7.18 | 10.8 | Siemens Centaur XP/XPT/Classic    |
|                        | μg/ml  | 13.3   | 10.6 | 16.0 |                                   |
|                        | μmol/l | 9.94   | 7.95 | 11.9 | Siemens Dimension                 |
|                        | μg/ml  | 14.8   | 11.8 | 17.8 |                                   |
|                        | μmol/l | 9.91   | 7.93 | 11.9 | Roche Cobas 6000/8000             |
|                        | μg/ml  | 14.7   | 11.8 | 17.6 |                                   |
|                        | μmol/l | 9.89   | 7.91 | 11.9 | Beckman DxC                       |
|                        | μg/ml  | 14.7   | 11.8 | 17.6 |                                   |
|                        | μmol/l | 10.4   | 8.32 | 12.5 | Thermo Scientific QMS Vancomycin  |
|                        | μg/ml  | 15.5   | 12.4 | 18.6 |                                   |
|                        | μmol/l | 10.8   | 8.64 | 13.0 | Gravimetric                       |
|                        | μg/ml  | 16.0   | 12.8 | 19.3 |                                   |
| Vitamin B12<br>维生素 B12 | pmol/l | 710    | 568  | 852  | Abbott Architect                  |
|                        | pg/ml  | 962    | 770  | 1154 |                                   |
|                        | pmol/l | 852    | 639  | 1065 | Siemens Centaur XP/XPT/Classic    |
|                        | pg/ml  | 1154   | 866  | 1442 |                                   |
|                        | pmol/l | 647    | 518  | 776  | Siemens Immulite 2000             |
|                        | pg/ml  | 877    | 702  | 1052 |                                   |
|                        | pmol/l | 643    | 514  | 772  | Beckman Dxl800                    |
|                        | pg/ml  | 871    | 696  | 1046 |                                   |
|                        | pmol/l | 747    | 598  | 896  | Roche Elecsys                     |
|                        | pg/ml  | 1012   | 810  | 1214 |                                   |
|                        | pmol/l | 659    | 527  | 791  | Beckman Access                    |
|                        | pg/ml  | 893    | 714  | 1072 |                                   |
|                        | pmol/l | 866    | 693  | 1039 | Tosoh Series                      |
|                        | pg/ml  | 1173   | 939  | 1407 |                                   |
|                        | pmol/l | 632    | 506  | 758  | Vitros ECI                        |
|                        | pg/ml  | 856    | 686  | 1026 |                                   |



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

Cat. No. IA3111/IA3112   Lot. No. 1972EC   Size 12 x 5ml / 4 x 5ml   Expiry 2022-12-28

| Range                  |        |        |     |      |                    |
|------------------------|--------|--------|-----|------|--------------------|
| Analyte                | unit   | Target | low | high | methods            |
| Vitamin B12<br>维生素 B12 | pmol/l | 793    | 634 | 952  | MP Biomedicals RIA |
|                        | pg/ml  | 1075   | 859 | 1291 |                    |
|                        | pmol/l | 711    | 569 | 853  | Siemens Dimension  |
|                        | pg/ml  | 963    | 771 | 1155 |                    |
|                        | pmol/l | 848    | 636 | 1060 | Siemens Centaur CP |
|                        | pg/ml  | 1149   | 862 | 1436 |                    |