

HUMAN ASSAYED MULTI-SERA - LEVEL 3 (HUM ASY CONTROL 3)

| | | |
|------------------------|-----------------------------|-----------------------|
| CAT. NO. HE1532 | GTIN: 05055273203608 | SIZE: 20 x 5ml |
| CAT. NO. HS2611 | GTIN: 05055273203813 | SIZE: 5 x 5ml |
| LOT NO. 983UE | EXPIRY: 2021-11-28 | |

INTENDED USE

This product is intended for *in vitro* diagnostic use, in the quality control of diagnostic assays. The Human Assayed Multi-sera is for the control of accuracy.

DEVICE DESCRIPTION

The Human Assayed Multi-sera is supplied at 2 levels, level 2 and 3. Target values and ranges are supplied for the analytes listed in the values section at both levels.

SAFETY PRECAUTIONS AND WARNINGS

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

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

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

Health and Safety Data Sheets are available on request.

STORAGE AND STABILITY

OPENED: Store refrigerated (+2°C to +8°C). Reconstituted serum is stable for 8 hours at +15°C to +25°C or 7 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C. (See Limitations)

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

LIMITATIONS

For Total & Prostatic Acid Phosphatase, the material should be stabilised by adding 1 drop (25µl - 30µl) of 0.7M Acetic acid solution to 1ml of the serum exactly 30 minutes after reconstitution. After stabilisation Total and Prostatic Acid Phosphatase is stable for 2 hours at +15°C to +25°C, 2 days at +2°C to +8°C, and 28 days when frozen once at -18°C to -24°C.

Alkaline Phosphatase levels in the reconstituted serum will rise over the stability period. It is recommended that the reconstituted serum is allowed to stand for 1 hour at +15°C to +25°C before measurement.

Bilirubin in the serum is light sensitive and it is recommended that the serum is stored in the dark. Stored in the dark, it is stable for 3 days at +2°C to +8°C. Do not store at +15°C to +25°C. Do not freeze.

NEFA is stable for 1 day at +2°C to +8°C.

Total PSA is stable for 4 days at +2°C to +8°C, or 28 days in aliquots frozen at -18°C to -24°C.

Bacterial contamination of the reconstituted serum will cause reductions in the stability of many components.

Different lot numbers of this control should not be interchanged, as the values assigned to the controls vary from lot to lot.

The control should not be used as a calibration material.

PREPARATION FOR USE

The Human Assayed Multi-sera is supplied lyophilised.

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

MATERIALS PROVIDED

Human Assayed Multi-sera - Level 3 20 x 5ml / 5 x 5ml

MATERIALS REQUIRED BUT NOT PROVIDED

Volumetric pipette

ASSIGNED VALUES

Each batch of assayed human serum is submitted to reference laboratories for assignment against international Reference Standards. Where international Reference Standards are unavailable, Reference Methods are used. Values are also collected from approx. 3000 laboratories worldwide and using a unique statistical analysis, a value is assigned.

With each batch, a control range is provided for individual parameters and each parameter method. The control range is equivalent to the assigned mean $\pm 2S.D.$ This results in an assayed serum with extremely accurate values, which may be confidently used by laboratories to ensure the accuracy of their methods.

If an instrument specific value is not available, refer to the Mean of all Instruments section. If necessary, contact Randox Laboratories - Technical Services, Northern Ireland, tel: +44 (0) 28 9445 1070 or email Technical.Services@randox.com.

NOTES

® All trademarks recognised.

- (1) Applies only in Germany. Ranges established according to the Guidelines of the Federal Chamber of Physicians in Germany.
- (2) Values established by reference laboratories officially recognised by the Federal Chamber of Physicians in Germany.
- (3) DGKC: German Society for Clinical Chemistry.
- (4) IFCC: International Federation of Clinical Chemistry.
- (5) SCE: Scandinavian Committee on Enzymes.

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ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 29.0 | 24.6 | 33.4 | 2.20 | 4.40 | Bromocresol Green |
| | g/dl | 2.90 | 2.46 | 3.34 | 0.22 | 0.44 | |
| | g/l | 27.7 | 23.5 | 31.9 | 2.10 | 4.20 | Bromocresol Purple |
| | g/dl | 2.77 | 2.35 | 3.19 | 0.21 | 0.42 | |
| Alkaline Phosphatase | U/l | 286 | 243 | 329 | 21.50 | 43.00 | AMP optimised to IFCC 37°C |
| | U/l | 283 | 241 | 325 | 21.00 | 42.00 | AMP non-optimised 37°C |
| | U/l | 272 | 231 | 313 | 20.50 | 41.00 | Colorimetric 37°C |
| ALT (GPT) | U/l | 153 | 122 | 184 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| Amylase Pancreatic | U/l | 248 | 211 | 285 | 18.50 | 37.00 | Immunoinhibition EPS substrate 37°C |
| Amylase Total | U/l | 333 | 283 | 383 | 25.00 | 50.00 | Abbott Architect IFCC Cal. 37°C |
| | U/l | 315 | 267 | 363 | 24.00 | 48.00 | Abbott Architect Non-IFCC Cal. 37°C |
| AST (GOT) | U/l | 140 | 112 | 168 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| Bicarbonate | mmol/l | 16.9 | 13.4 | 20.4 | 1.75 | 3.50 | Enzymatic |
| Bile Acids | µmol/l | 49.9 | 39.9 | 59.9 | 5.00 | 10.00 | Enzymatic Colorimetric |
| Bilirubin Direct | µmol/l | 29.7 | 23.5 | 35.9 | 3.10 | 6.20 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.74 | 1.37 | 2.11 | 0.19 | 0.37 | |
| | µmol/l | 29.2 | 23.1 | 35.3 | 3.05 | 6.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.71 | 1.35 | 2.07 | 0.18 | 0.36 | |
| | µmol/l | 29.2 | 23.1 | 35.3 | 3.05 | 6.10 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.71 | 1.35 | 2.07 | 0.18 | 0.36 | |
| Bilirubin Total | µmol/l | 85.1 | 67.2 | 103 | 8.95 | 17.90 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 4.98 | 3.93 | 6.03 | 0.53 | 1.05 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------|--------|--------|------|------|--------|---------|---|
| Bilirubin Total | µmol/l | 83.9 | 66.3 | 102 | 8.80 | 17.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.91 | 3.88 | 5.94 | 0.52 | 1.03 | |
| | µmol/l | 86.4 | 68.3 | 105 | 9.05 | 18.10 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 5.05 | 4.00 | 6.10 | 0.53 | 1.05 | |
| | µmol/l | 83.7 | 66.1 | 101 | 8.80 | 17.60 | Nitrobenzenediazonium salt |
| | mg/dl | 4.90 | 3.87 | 5.93 | 0.52 | 1.03 | |
| | µmol/l | 83.4 | 65.9 | 101 | 8.75 | 17.50 | Diazonium ion |
| | mg/dl | 4.88 | 3.86 | 5.90 | 0.51 | 1.02 | |
| Calcium | mmol/l | 3.09 | 2.78 | 3.40 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.4 | 11.1 | 13.7 | 0.65 | 1.30 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.61 | 6.62 | 8.60 | 0.50 | 0.99 | Cholesterol Oxidase |
| | mg/dl | 294 | 256 | 332 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 6257 | 5005 | 7509 | 626.00 | 1252.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 495 | 406 | 584 | 44.50 | 89.00 | CK-NAC serum start (DGKC) 37°C |
| | U/l | 489 | 401 | 577 | 44.00 | 88.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 485 | 398 | 572 | 43.50 | 87.00 | CK-NAC (IFCC) 37°C |
| | U/l | 485 | 397 | 573 | 44.00 | 88.00 | Monothioglycerol 37°C |
| | U/l | 495 | 406 | 584 | 44.50 | 89.00 | Creatinine phosphate substrate Start 37°C |
| Creatinine | µmol/l | 397 | 318 | 476 | 39.50 | 79.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.49 | 3.59 | 5.39 | 0.45 | 0.90 | |
| | µmol/l | 401 | 321 | 481 | 40.00 | 80.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.53 | 3.63 | 5.43 | 0.45 | 0.90 | |
| | µmol/l | 390 | 312 | 468 | 39.00 | 78.00 | Enzymatic UV method |
| | mg/dl | 4.41 | 3.53 | 5.29 | 0.44 | 0.88 | |

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ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Creatinine | µmol/l | 396 | 317 | 475 | 39.50 | 79.00 | Jaffe rate blanked |
| | mg/dl | 4.47 | 3.58 | 5.36 | 0.45 | 0.89 | |
| | µmol/l | 402 | 321 | 483 | 40.50 | 81.00 | IDMS traceable |
| | mg/dl | 4.54 | 3.63 | 5.45 | 0.46 | 0.91 | |
| Free T4 | pmol/l | 48.5 | 36.4 | 60.6 | 6.05 | 12.10 | Abbott Architect |
| | ng/dl | 3.78 | 2.84 | 4.72 | 0.47 | 0.94 | |
| | pg/ml | 37.8 | 28.4 | 47.2 | 4.70 | 9.40 | Abbott Architect |
| gamma-GT | U/l | 169 | 144 | 194 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 171 | 145 | 197 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 168 | 143 | 193 | 12.50 | 25.00 | DCL gamma glutamyl-3-carboxy-4-nitroanilide 37°C |
| Glucose | mmol/l | 15.6 | 13.2 | 18.0 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 281 | 238 | 324 | 21.50 | 43.00 | |
| | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 2.83 | 2.40 | 3.26 | 0.22 | 0.43 | Direct HDL PPD |
| | mg/dl | 109 | 92.6 | 125 | 8.20 | 16.40 | |
| | mmol/l | 2.77 | 2.36 | 3.18 | 0.21 | 0.41 | Direct HDL Immunoseparation |
| | mg/dl | 107 | 91.1 | 123 | 7.95 | 15.90 | |
| | mmol/l | 2.85 | 2.42 | 3.28 | 0.22 | 0.43 | Direct Clearance Method |
| | mg/dl | 110 | 93.4 | 127 | 8.30 | 16.60 | |
| | mmol/l | 2.82 | 2.39 | 3.25 | 0.22 | 0.43 | HDL - Ultra |
| | mg/dl | 109 | 92.3 | 126 | 8.35 | 16.70 | |
| Iron | µmol/l | 42.8 | 35.1 | 50.5 | 3.85 | 7.70 | Colorimetric with ppt. |
| | µg/dl | 239 | 196 | 282 | 21.50 | 43.00 | |


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Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|-------|------------------------------|
| Iron | µmol/l | 41.8 | 34.3 | 49.3 | 3.75 | 7.50 | Colorimetric without ppt. |
| | µg/dl | 234 | 192 | 276 | 21.00 | 42.00 | |
| Lactate | mmol/l | 5.22 | 4.28 | 6.16 | 0.47 | 0.94 | Colorimetric Lactate Oxidase |
| | mg/dl | 47.0 | 38.6 | 55.4 | 4.20 | 8.40 | |
| LD (LDH) | U/l | 358 | 304 | 412 | 27.00 | 54.00 | L->P 37°C |
| | U/l | 360 | 306 | 414 | 27.00 | 54.00 | L->P IFCC 37°C |
| Lipase | U/l | 60 | 48 | 72 | 6.00 | 12.00 | Other Colorimetric 37°C |
| Lithium | mmol/l | 2.11 | 1.86 | 2.36 | 0.13 | 0.25 | Spectrophotometric |
| | mg/dl | 1.47 | 1.29 | 1.65 | 0.09 | 0.18 | |
| Magnesium | mmol/l | 1.76 | 1.55 | 1.97 | 0.11 | 0.21 | Arsenazo III |
| | mg/dl | 4.28 | 3.77 | 4.79 | 0.26 | 0.51 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| Osmolality | mOsm/kg | 357 | 286 | 428 | 35.50 | 71.00 | Calculated |
| | | | | | | | |
| Phosphate Inorganic | mmol/l | 2.17 | 1.85 | 2.49 | 0.16 | 0.32 | Phosphomolybdate enzymatic |
| | mg/dl | 6.73 | 5.74 | 7.72 | 0.50 | 0.99 | |
| | mmol/l | 2.16 | 1.83 | 2.49 | 0.17 | 0.33 | |
| mg/dl | 6.70 | 5.67 | 7.73 | 0.52 | 1.03 | | |
| Potassium | mmol/l | 6.23 | 5.74 | 6.72 | 0.25 | 0.49 | ISE method - indirect |
| Protein Total | g/l | 47.4 | 37.9 | 56.9 | 4.75 | 9.50 | Biuret reaction end point |
| | g/dl | 4.74 | 3.79 | 5.69 | 0.48 | 0.95 | |
| | g/l | 46.7 | 37.4 | 56.0 | 4.65 | 9.30 | Biuret reaction kinetic |
| | g/dl | 4.67 | 3.74 | 5.60 | 0.47 | 0.93 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|------|-------|-------|---|
| PSA Total | ng/ml = | 23.8 | 17.8 | 29.8 | 3.00 | 6.00 | Abbott Architect |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Thyroid Stimulating Hormone | µU/ml = | 1.05 | 0.84 | 1.26 | 0.10 | 0.21 | Abbott Architect |
| TIBC | µmol/l | 52.7 | 41.7 | 63.7 | 5.50 | 11.00 | FE+UIBC(saturation with iron) |
| | µg/dl | 295 | 233 | 357 | 31.00 | 62.00 | |
| | µmol/l | 37.8 | 29.8 | 45.8 | 4.00 | 8.00 | Calculated from Transferrin |
| | µg/dl | 211 | 167 | 255 | 22.00 | 44.00 | |
| Triglycerides | mmol/l | 2.92 | 2.45 | 3.39 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |
| Urea | mmol/l | 2.91 | 2.45 | 3.37 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | Urease end point |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | |
| | mmol/l | 20.9 | 17.7 | 24.1 | 1.60 | 3.20 | Urease kinetic |
| | mg/dl | 126 | 106 | 146 | 10.00 | 20.00 | |
| Uric Acid (Urate) | mmol/l | 20.9 | 17.8 | 24.0 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.0 | 49.9 | 67.5 | 4.40 | 8.80 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.07 | 7.90 | 10.2 | 0.59 | 1.17 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|---|
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.12 | 7.95 | 10.3 | 0.59 | 1.17 | |

ABX Pentra 400®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

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Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|--------------------------------------|
| Albumin | g/l | 29.5 | 25.1 | 33.9 | 2.20 | 4.40 | Bromocresol Green |
| | g/dl | 2.95 | 2.51 | 3.39 | 0.22 | 0.44 | |
| Alkaline Phosphatase | U/l | 289 | 245 | 333 | 22.00 | 44.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 171 | 137 | 205 | 17.00 | 34.00 | Tris buffer without P5P 37°C |
| AST (GOT) | U/l | 156 | 125 | 187 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| Bilirubin Direct | µmol/l | 28.5 | 22.5 | 34.5 | 3.00 | 6.00 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.67 | 1.32 | 2.02 | 0.18 | 0.35 | |
| Bilirubin Total | µmol/l | 89.2 | 70.5 | 108 | 9.35 | 18.70 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 5.22 | 4.12 | 6.32 | 0.55 | 1.10 | |
| Calcium | mmol/l | 3.20 | 2.88 | 3.52 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.8 | 11.5 | 14.1 | 0.65 | 1.30 | |
| | mmol/l | 3.20 | 2.88 | 3.52 | 0.16 | 0.32 | Arsenazo III |
| | mg/dl | 12.8 | 11.5 | 14.1 | 0.65 | 1.30 | |
| Chloride | mmol/l | 113 | 104 | 122 | 4.50 | 9.00 | ISE direct |
| Cholesterol | mmol/l | 7.75 | 6.74 | 8.76 | 0.51 | 1.01 | Cholesterol Oxidase |
| | mg/dl | 299 | 260 | 338 | 19.50 | 39.00 | |
| CK Total | U/l | 484 | 397 | 571 | 43.50 | 87.00 | CK-NAC (IFCC) 37°C |
| Creatinine | µmol/l | 385 | 308 | 462 | 38.50 | 77.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.35 | 3.48 | 5.22 | 0.44 | 0.87 | |
| | µmol/l | 383 | 307 | 459 | 38.00 | 76.00 | Jaffe rate blanked |
| | mg/dl | 4.33 | 3.47 | 5.19 | 0.43 | 0.86 | |

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| Analyte | unit | Target | Range | | 1SD | 2SD | methods |
|---------------------|--------|--------|-------|------|-------|--------|---|
| | | | low | high | | | |
| gamma-GT | U/l | 172 | 147 | 197 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| Glucose | mmol/l | 15.5 | 13.2 | 17.8 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 279 | 238 | 320 | 20.50 | 41.00 | |
| | mmol/l | 15.4 | 13.1 | 17.7 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 278 | 236 | 320 | 21.00 | 42.00 | |
| HDL - Cholesterol | mmol/l | 2.73 | 2.32 | 3.14 | 0.21 | 0.41 | Direct HDL PPD |
| | mg/dl | 105 | 89.6 | 120 | 7.70 | 15.40 | |
| | mmol/l | 2.72 | 2.31 | 3.13 | 0.21 | 0.41 | HDL - Ultra |
| | mg/dl | 105 | 89.2 | 121 | 7.90 | 15.80 | |
| Iron | µmol/l | 40.0 | 32.8 | 47.2 | 3.60 | 7.20 | Colorimetric with ppt. |
| | µg/dl | 224 | 183 | 265 | 20.50 | 41.00 | |
| | µmol/l | 38.8 | 31.8 | 45.8 | 3.50 | 7.00 | Colorimetric without ppt. |
| | µg/dl | 217 | 178 | 256 | 19.50 | 39.00 | |
| LD (LDH) | U/l | 735 | 625 | 845 | 55.00 | 110.00 | P->L German methods 37°C |
| | U/l | 388 | 329 | 447 | 29.50 | 59.00 | L->P IFCC 37°C |
| Lipase | U/l | 52 | 42 | 62 | 5.00 | 10.00 | Other Colorimetric 37°C |
| Magnesium | mmol/l | 1.61 | 1.42 | 1.80 | 0.10 | 0.19 | Xylidyl Blue |
| | mg/dl | 3.91 | 3.45 | 4.37 | 0.23 | 0.46 | |
| Phosphate Inorganic | mmol/l | 2.41 | 2.05 | 2.77 | 0.18 | 0.36 | Phosphomolybdate UV |
| | mg/dl | 7.47 | 6.36 | 8.58 | 0.56 | 1.11 | |
| Potassium | mmol/l | 6.12 | 5.63 | 6.61 | 0.25 | 0.49 | ISE method - direct |
| Protein Total | g/l | 48.0 | 38.4 | 57.6 | 4.80 | 9.60 | Biuret reaction end point |
| | g/dl | 4.80 | 3.84 | 5.76 | 0.48 | 0.96 | |
| Sodium | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | ISE method - direct |
| Triglycerides | mmol/l | 2.98 | 2.50 | 3.46 | 0.24 | 0.48 | Lipase/GPO-PAP no correction |
| | mg/dl | 264 | 221 | 307 | 21.50 | 43.00 | |

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Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|-------|---|
| Urea | mmol/l | 19.3 | 16.4 | 22.2 | 1.45 | 2.90 | Urease kinetic |
| | mg/dl | 116 | 98.6 | 133 | 8.70 | 17.40 | |
| | mmol/l | 19.3 | 16.4 | 22.2 | 1.45 | 2.90 | BUN |
| | mg/dl | 54.2 | 46.1 | 62.3 | 4.05 | 8.10 | |
| Uric Acid (Urate) | mmol/l | 0.52 | 0.45 | 0.59 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.75 | 7.63 | 9.87 | 0.56 | 1.12 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.06 | 7.88 | 10.2 | 0.59 | 1.18 | |

Arkray Spotchem EZ/EL®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|--------|----------------------------------|
| Albumin | g/l | 29.0 | 24.0 | 34.0 | 2.50 | 5.00 | ARKRAY Spotchem EZ |
| | g/dl | 2.90 | 2.40 | 3.40 | 0.22 | 0.44 | |
| Alkaline Phosphatase | U/l | 505 | 393 | 617 | 55.60 | 111.10 | ARKRAY Spotchem EZ 37°C |
| ALT (GPT) | U/l | 154 | 123 | 185 | 15.40 | 30.80 | ARKRAY Spotchem EZ 37°C |
| Amylase Total | U/l | 224 | 168 | 280 | 28.00 | 56.00 | ARKRAY Spotchem EZ 37°C |
| AST (GOT) | U/l | 145 | 116 | 174 | 14.50 | 29.00 | ARKRAY Spotchem EZ 37°C |
| Bilirubin Total | µmol/l | 82.1 | 70.1 | 94.1 | 6.00 | 12.00 | ARKRAY Spotchem EZ |
| | mg/dl | 4.80 | 4.10 | 5.50 | 0.34 | 0.67 | |
| Bun Urea | mmol/l | 23.2 | 19.6 | 26.8 | 1.80 | 3.60 | ARKRAY Spotchem EZ |
| | mg/dl | 65.0 | 55.0 | 75.0 | 4.90 | 9.80 | |
| Calcium | mmol/l | 3.59 | 3.04 | 4.14 | 0.28 | 0.55 | ARKRAY Spotchem EZ |
| | mg/dl | 14.4 | 12.2 | 16.6 | 1.08 | 2.16 | |
| Chloride | mmol/l | 129 | 121 | 137 | 3.90 | 7.70 | ARKRAY Spotchem EL |
| Cholesterol | mmol/l | 6.66 | 5.65 | 7.67 | 0.51 | 1.01 | ARKRAY Spotchem EZ |
| | mg/dl | 257 | 218 | 296 | 19.30 | 38.60 | |
| CK Total | U/l | 443 | 354 | 532 | 44.30 | 88.60 | ARKRAY Spotchem EZ 37°C |
| Creatinine | µmol/l | 372 | 310 | 434 | 31.00 | 62.00 | ARKRAY Spotchem EZ (creatinine) |
| | mg/dl | 4.20 | 3.50 | 4.90 | 0.34 | 0.67 | |
| | µmol/l | 354 | 301 | 407 | 26.50 | 53.00 | ARKRAY Spotchem EZ (creatinine2) |
| | mg/dl | 4.00 | 3.40 | 4.60 | 0.28 | 0.56 | |
| gamma-GT | U/l | 218 | 174 | 262 | 21.80 | 43.60 | ARKRAY Spotchem EZ 37°C |

**Arkray Spotchem EZ/EL®**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|--------|-------------------------|
| Glucose | mmol/l | 16.1 | 13.7 | 18.5 | 1.20 | 2.40 | ARKRAY Spotchem EZ |
| | mg/dl | 291 | 247 | 335 | 21.90 | 43.70 | |
| HDL - Cholesterol | mmol/l | 2.05 | 1.53 | 2.57 | 0.26 | 0.52 | ARKRAY Spotchem EZ |
| | mg/dl | 79.0 | 59.0 | 99.0 | 9.90 | 19.80 | |
| LD (LDH) | U/l | 601 | 456 | 746 | 72.10 | 144.20 | ARKRAY Spotchem EZ 37°C |
| Magnesium | mmol/l | 1.77 | 1.52 | 2.02 | 0.13 | 0.25 | ARKRAY Spotchem EZ |
| | mg/dl | 4.30 | 3.70 | 4.90 | 0.30 | 0.60 | |
| Phosphate Inorganic | mmol/l | 2.03 | 1.74 | 2.32 | 0.15 | 0.29 | ARKRAY Spotchem EZ |
| | mg/dl | 6.30 | 5.40 | 7.20 | 0.41 | 0.82 | |
| Potassium | mmol/l | 5.80 | 5.50 | 6.10 | 0.15 | 0.30 | ARKRAY Spotchem EL |
| Protein Total | g/l | 48.0 | 40.0 | 56.0 | 4.00 | 8.00 | ARKRAY Spotchem EZ |
| | g/dl | 4.80 | 4.00 | 5.60 | 0.36 | 0.72 | |
| Sodium | mmol/l | 151 | 143 | 159 | 3.80 | 7.60 | ARKRAY Spotchem EL |
| Triglycerides | mmol/l | 1.88 | 1.60 | 2.16 | 0.14 | 0.28 | ARKRAY Spotchem EZ |
| | mg/dl | 166 | 141 | 191 | 12.50 | 24.90 | |
| Uric Acid (Urate) | mmol/l | 0.52 | 0.46 | 0.59 | 0.03 | 0.07 | ARKRAY Spotchem EZ |
| | mg/dl | 8.80 | 7.70 | 9.90 | 0.53 | 1.06 | |

Beckman Coulter AU Series®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|--------------------------------------|
| Albumin | g/l | 28.2 | 23.9 | 32.5 | 2.15 | 4.30 | Bromocresol Green |
| | g/dl | 2.82 | 2.39 | 3.25 | 0.22 | 0.43 | |
| Alkaline Phosphatase | U/l | 377 | 321 | 433 | 28.00 | 56.00 | Diethanolamine buffer DEA 37°C |
| | U/l | 358 | 304 | 412 | 27.00 | 54.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 159 | 127 | 191 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| Amylase Pancreatic | U/l | 240 | 204 | 276 | 18.00 | 36.00 | Immuno-inhibition EPS substrate 37°C |
| | U/l | 237 | 202 | 272 | 17.50 | 35.00 | Roche EPS Liquid 37°C |
| | U/l | 254 | 216 | 292 | 19.00 | 38.00 | Beckman Synchron/CX/LXi/DxC 37°C |
| Amylase Total | U/l | 289 | 246 | 332 | 21.50 | 43.00 | pNP Maltotriose substrates 37°C |
| | U/l | 285 | 242 | 328 | 21.50 | 43.00 | Randox Lyo. Ethylidene pNPG7 37°C |
| | U/l | 281 | 239 | 323 | 21.00 | 42.00 | Beckman Synchron CX4/CX5/CX7 37°C |
| | U/l | 275 | 234 | 316 | 20.50 | 41.00 | Roche liquid stable pNPG7 37°C |
| | U/l | 285 | 242 | 328 | 21.50 | 43.00 | Beckman Coulter - blocked pNPG7 37°C |
| | U/l | 288 | 245 | 331 | 21.50 | 43.00 | Beckman Synchron AMY7 37°C |
| AST (GOT) | U/l | 155 | 124 | 186 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| Bicarbonate | mmol/l | 18.2 | 14.4 | 22.0 | 1.90 | 3.80 | Enzymatic |
| Bilirubin Direct | µmol/l | 23.7 | 18.8 | 28.6 | 2.45 | 4.90 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.39 | 1.10 | 1.68 | 0.15 | 0.29 | |
| Bilirubin Total | µmol/l | 86.6 | 68.4 | 105 | 9.10 | 18.20 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 5.07 | 4.00 | 6.14 | 0.54 | 1.07 | |
| | µmol/l | 87.3 | 69.0 | 106 | 9.15 | 18.30 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.11 | 4.04 | 6.18 | 0.54 | 1.07 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------|--------|--------|------|------|--------|---------|--|
| Bilirubin Total | µmol/l | 87.1 | 68.8 | 105 | 9.15 | 18.30 | Diazonium ion |
| | mg/dl | 5.10 | 4.02 | 6.18 | 0.54 | 1.08 | |
| | µmol/l | 86.9 | 68.6 | 105 | 9.15 | 18.30 | DPD (Beckman AU) |
| | mg/dl | 5.08 | 4.01 | 6.15 | 0.54 | 1.07 | |
| Calcium | mmol/l | 3.13 | 2.82 | 3.44 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.5 | 11.3 | 13.7 | 0.60 | 1.20 | |
| | mmol/l | 2.96 | 2.66 | 3.26 | 0.15 | 0.30 | Ion selective electrode |
| | mg/dl | 11.9 | 10.7 | 13.1 | 0.60 | 1.20 | |
| | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | Colorimetric |
| | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.74 | 6.74 | 8.74 | 0.50 | 1.00 | Cholesterol Oxidase |
| | mg/dl | 299 | 260 | 338 | 19.50 | 39.00 | |
| Cholinesterase | U/l | 5033 | 4026 | 6040 | 503.50 | 1007.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 512 | 420 | 604 | 46.00 | 92.00 | CK-NAC (IFCC) 37°C |
| Creatinine | µmol/l | 368 | 294 | 442 | 37.00 | 74.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.16 | 3.32 | 5.00 | 0.42 | 0.84 | |
| | µmol/l | 368 | 294 | 442 | 37.00 | 74.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.16 | 3.32 | 5.00 | 0.42 | 0.84 | |
| | µmol/l | 387 | 309 | 465 | 39.00 | 78.00 | Enzymatic UV method |
| | mg/dl | 4.37 | 3.49 | 5.25 | 0.44 | 0.88 | |
| | µmol/l | 393 | 314 | 472 | 39.50 | 79.00 | Creatinine PAP method |
| | mg/dl | 4.44 | 3.55 | 5.33 | 0.45 | 0.89 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| Creatinine | µmol/l | 368 | 295 | 441 | 36.50 | 73.00 | Jaffe rate blanked |
| | mg/dl | 4.16 | 3.33 | 4.99 | 0.42 | 0.83 | |
| | µmol/l | 377 | 302 | 452 | 37.50 | 75.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.26 | 3.41 | 5.11 | 0.43 | 0.85 | |
| | µmol/l | 372 | 298 | 446 | 37.00 | 74.00 | Jaffe rate blanked compensated (-18 µmol/l) |
| | mg/dl | 4.20 | 3.37 | 5.03 | 0.42 | 0.83 | |
| Creatinine | µmol/l | 372 | 297 | 447 | 37.50 | 75.00 | IDMS traceable |
| | mg/dl | 4.20 | 3.36 | 5.04 | 0.42 | 0.84 | |
| D-3-Hydroxybutyrate | mmol/l | 1.30 | 1.11 | 1.49 | 0.10 | 0.19 | Tris buffer 100mmol pH 8.5 |
| gamma-GT | U/l | 173 | 147 | 199 | 13.00 | 26.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 175 | 148 | 202 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 171 | 145 | 197 | 13.00 | 26.00 | DCL gamma glutamyl-3-carboxy-4-nitroanilide 37°C |
| GLDH | U/l | 29 | 23 | 35 | 3.00 | 6.00 | Triethanolamine buffer 50 mmol 37°C |
| Glucose | mmol/l | 16.4 | 13.9 | 18.9 | 1.25 | 2.50 | GOD/02-Beckman method |
| | mg/dl | 296 | 250 | 342 | 23.00 | 46.00 | |
| | mmol/l | 15.9 | 13.5 | 18.3 | 1.20 | 2.40 | Glucose dehydrogenase |
| | mg/dl | 287 | 243 | 331 | 22.00 | 44.00 | |
| | mmol/l | 15.8 | 13.4 | 18.2 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 285 | 241 | 329 | 22.00 | 44.00 | |
| | mmol/l | 15.8 | 13.5 | 18.1 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 285 | 243 | 327 | 21.00 | 42.00 | |
| HDL - Cholesterol | mmol/l | 2.94 | 2.50 | 3.38 | 0.22 | 0.44 | Direct HDL PPD |
| | mg/dl | 113 | 96.5 | 130 | 8.25 | 16.50 | |
| | mmol/l | 2.81 | 2.39 | 3.23 | 0.21 | 0.42 | Direct HDL Immunoseparation |
| | mg/dl | 108 | 92.3 | 124 | 7.85 | 15.70 | |

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Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|--------|--------------------------------|
| HDL - Cholesterol | mmol/l | 2.02 | 1.72 | 2.32 | 0.15 | 0.30 | Direct HDL PEGME |
| | mg/dl | 78.0 | 66.4 | 89.6 | 5.80 | 11.60 | |
| | mmol/l | 2.98 | 2.53 | 3.43 | 0.23 | 0.45 | HDL - Ultra |
| | mg/dl | 115 | 97.7 | 132 | 8.65 | 17.30 | |
| Iron | µmol/l | 41.9 | 34.4 | 49.4 | 3.75 | 7.50 | Colorimetric with ppt. |
| | µg/dl | 234 | 192 | 276 | 21.00 | 42.00 | |
| | µmol/l | 41.5 | 34.0 | 49.0 | 3.75 | 7.50 | Colorimetric without ppt. |
| | µg/dl | 232 | 190 | 274 | 21.00 | 42.00 | |
| Lactate | mmol/l | 5.08 | 4.16 | 6.00 | 0.46 | 0.92 | Colorimetric Lactate Oxidase |
| | mg/dl | 45.8 | 37.5 | 54.1 | 4.15 | 8.30 | |
| LD (LDH) | U/l | 367 | 312 | 422 | 27.50 | 55.00 | L->P 37°C |
| | U/l | 815 | 693 | 937 | 61.00 | 122.00 | P->L Scandinavian & Dutch 37°C |
| | U/l | 733 | 623 | 843 | 55.00 | 110.00 | P->L German methods 37°C |
| | U/l | 372 | 316 | 428 | 28.00 | 56.00 | L->P IFCC 37°C |
| Lipase | U/l | 64 | 51 | 77 | 6.50 | 13.00 | Other Colorimetric 37°C |
| Lithium | mmol/l | 2.07 | 1.83 | 2.31 | 0.12 | 0.24 | Ion selective electrode |
| | mg/dl | 1.44 | 1.27 | 1.61 | 0.09 | 0.17 | |
| | mmol/l | 2.08 | 1.83 | 2.33 | 0.13 | 0.25 | Spectrophotometric |
| | mg/dl | 1.44 | 1.27 | 1.61 | 0.09 | 0.17 | |
| Magnesium | mmol/l | 1.82 | 1.60 | 2.04 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.42 | 3.89 | 4.95 | 0.27 | 0.53 | |
| | mmol/l | 1.80 | 1.59 | 2.01 | 0.11 | 0.21 | Methylthymol blue |
| | mg/dl | 4.37 | 3.86 | 4.88 | 0.26 | 0.51 | |
| Osmolality | mOsm/kg | 346 | 277 | 415 | 34.50 | 69.00 | Calculated |
| Phosphate Inorganic | mmol/l | 2.18 | 1.86 | 2.50 | 0.16 | 0.32 | Phosphomolybdate enzymatic |
| | mg/dl | 6.76 | 5.77 | 7.75 | 0.50 | 0.99 | |

Beckman Coulter AU Series®

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Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---------------------------------------|
| Phosphate Inorganic | mmol/l | 2.22 | 1.89 | 2.55 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.88 | 5.86 | 7.90 | 0.51 | 1.02 | |
| | mmol/l | 2.23 | 1.90 | 2.56 | 0.17 | 0.33 | Beckman PHOSm (365nm) |
| | mg/dl | 6.91 | 5.89 | 7.93 | 0.51 | 1.02 | |
| Potassium | mmol/l | 6.21 | 5.71 | 6.71 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 46.7 | 37.3 | 56.1 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.67 | 3.73 | 5.61 | 0.47 | 0.94 | |
| | g/l | 46.4 | 37.1 | 55.7 | 4.65 | 9.30 | Biuret reaction kinetic |
| | g/dl | 4.64 | 3.71 | 5.57 | 0.47 | 0.93 | |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | μmol/l | 51.6 | 40.8 | 62.4 | 5.40 | 10.80 | FE+UIBC(saturation with iron) |
| | μg/dl | 288 | 228 | 348 | 30.00 | 60.00 | |
| | μmol/l | 51.2 | 40.5 | 61.9 | 5.35 | 10.70 | Direct Colorimetric |
| | μg/dl | 286 | 226 | 346 | 30.00 | 60.00 | |
| | μmol/l | 38.1 | 30.1 | 46.1 | 4.00 | 8.00 | Calculated from Transferrin |
| | μg/dl | 213 | 168 | 258 | 22.50 | 45.00 | |
| Triglycerides | mmol/l | 2.96 | 2.48 | 3.44 | 0.24 | 0.48 | Lipase/GPO-PAP no correction |
| | mg/dl | 262 | 219 | 305 | 21.50 | 43.00 | |
| | mmol/l | 2.98 | 2.50 | 3.46 | 0.24 | 0.48 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 264 | 221 | 307 | 21.50 | 43.00 | |
| | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | L/G kinase EP. 0.11 mmol/l correction |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |

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Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|---------------|-------------------|--------|------|------|-------|-------|---|---|
| Triglycerides | mmol/l | 2.97 | 2.49 | 3.45 | 0.24 | 0.48 | Lipase/Glycerol Dehydrogenase | |
| | mg/dl | 263 | 220 | 306 | 21.50 | 43.00 | | |
| UIBC | µmol/l | 10.4 | 8.56 | 12.2 | 0.92 | 1.84 | Direct Colorimetric | |
| | µg/dl | 58.1 | 47.9 | 68.3 | 5.10 | 10.20 | | |
| Urea | mmol/l | 20.9 | 17.7 | 24.1 | 1.60 | 3.20 | Beckman-Conductivity | |
| | mg/dl | 126 | 106 | 146 | 10.00 | 20.00 | | |
| | mmol/l | 20.4 | 17.3 | 23.5 | 1.55 | 3.10 | Urease end point | |
| | mg/dl | 123 | 104 | 142 | 9.50 | 19.00 | | |
| | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | Urease kinetic | |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | | |
| | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | BUN | |
| | mg/dl | 58.4 | 49.6 | 67.2 | 4.40 | 8.80 | | |
| | Uric Acid (Urate) | mmol/l | 0.57 | 0.50 | 0.65 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | | mg/dl | 9.64 | 8.40 | 10.9 | 0.62 | 1.24 | |
| mmol/l | | 0.57 | 0.49 | 0.64 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase | |
| mg/dl | | 9.53 | 8.28 | 10.8 | 0.63 | 1.25 | | |
| mmol/l | | 0.57 | 0.50 | 0.65 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm | |
| mg/dl | | 9.59 | 8.35 | 10.8 | 0.62 | 1.24 | | |

Beckman CX4/5/7/9/LX20®/DxC600/800®

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Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|-------|------|-------|-------|--------------------------------------|
| Albumin | g/l | 28.9 | 24.6 | 33.2 | 2.15 | 4.30 | Bromocresol Green |
| | g/dl | 2.89 | 2.46 | 3.32 | 0.22 | 0.43 | |
| | g/l | 29.4 | 25.0 | 33.8 | 2.20 | 4.40 | Bromocresol Purple |
| | g/dl | 2.94 | 2.50 | 3.38 | 0.22 | 0.44 | |
| Alkaline Phosphatase | U/l | 304 | 259 | 349 | 22.50 | 45.00 | AMP optimised to IFCC 37°C |
| | U/l | 310 | 264 | 356 | 23.00 | 46.00 | AMP non-optimised 37°C |
| ALT (GPT) | U/l | 146 | 117 | 175 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 145 | 116 | 174 | 14.50 | 29.00 | Tris buffer SCE 37°C |
| Amylase Total | U/l | 293 | 249 | 337 | 22.00 | 44.00 | Beckman Synchron CX4/CX5/CX7 37°C |
| | U/l | 294 | 250 | 338 | 22.00 | 44.00 | Beckman Coulter - blocked pNPG7 37°C |
| | U/l | 290 | 246 | 334 | 22.00 | 44.00 | Beckman Synchron AMY7 37°C |
| AST (GOT) | U/l | 139 | 111 | 167 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| | U/l | 138 | 110 | 166 | 14.00 | 28.00 | Tris buffer SCE 37°C |
| Bicarbonate | mmol/l | 17.3 | 13.7 | 20.9 | 1.80 | 3.60 | Differential rate pH change |
| Bilirubin Direct | µmol/l | 16.5 | 13.0 | 20.0 | 1.75 | 3.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 0.965 | 0.761 | 1.17 | 0.10 | 0.20 | |
| Bilirubin Total | µmol/l | 85.1 | 67.3 | 103 | 8.90 | 17.80 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.98 | 3.94 | 6.02 | 0.52 | 1.04 | |
| Calcium | mmol/l | 3.08 | 2.77 | 3.39 | 0.16 | 0.31 | Ion selective electrode |
| | mg/dl | 12.3 | 11.1 | 13.5 | 0.60 | 1.20 | |
| | mmol/l | 3.07 | 2.76 | 3.38 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.3 | 11.1 | 13.5 | 0.60 | 1.20 | |


Beckman CX4/5/7/9/LX20®/DxC600/800®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

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Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------|--------|--------|------|------|--------|---------|---|
| Chloride | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.58 | 6.60 | 8.56 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 293 | 255 | 331 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 5300 | 4240 | 6360 | 530.00 | 1060.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 492 | 403 | 581 | 44.50 | 89.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 505 | 414 | 596 | 45.50 | 91.00 | CK-NAC (IFCC) 37°C |
| | U/l | 490 | 401 | 579 | 44.50 | 89.00 | Monothioglycerol 37°C |
| | U/l | 506 | 415 | 597 | 45.50 | 91.00 | Creatinine phosphate substrate Start 37°C |
| Creatinine | µmol/l | 384 | 307 | 461 | 38.50 | 77.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.34 | 3.47 | 5.21 | 0.44 | 0.87 | |
| | µmol/l | 387 | 309 | 465 | 39.00 | 78.00 | Jaffe rate blanked |
| | mg/dl | 4.37 | 3.49 | 5.25 | 0.44 | 0.88 | |
| | µmol/l | 389 | 311 | 467 | 39.00 | 78.00 | IDMS traceable |
| | mg/dl | 4.40 | 3.51 | 5.29 | 0.45 | 0.89 | |
| Free T4 | pmol/l | 62.5 | 46.8 | 78.2 | 7.85 | 15.70 | Beckman Dxl800 |
| | ng/dl | 4.88 | 3.65 | 6.11 | 0.62 | 1.23 | |
| | pg/ml | 48.8 | 36.5 | 61.1 | 6.15 | 12.30 | Beckman Dxl800 |
| gamma-GT | U/l | 138 | 117 | 159 | 10.50 | 21.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 141 | 120 | 162 | 10.50 | 21.00 | Gamma glutamyl-4-nitroanilide 37°C |
| | U/l | 139 | 118 | 160 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| Glucose | mmol/l | 15.1 | 12.8 | 17.4 | 1.15 | 2.30 | GOD/02-Beckman method |
| | mg/dl | 272 | 231 | 313 | 20.50 | 41.00 | |
| | mmol/l | 15.2 | 12.9 | 17.5 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 274 | 232 | 316 | 21.00 | 42.00 | |


Beckman CX4/5/7/9/LX20®/DxC600/800®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|--------|-------------------------------------|
| Glucose | mmol/l | 15.2 | 12.9 | 17.5 | 1.15 | 2.30 | Oxygen electrode |
| | mg/dl | 274 | 232 | 316 | 21.00 | 42.00 | |
| | mmol/l | 15.1 | 12.8 | 17.4 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 272 | 231 | 313 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 2.95 | 2.51 | 3.39 | 0.22 | 0.44 | Direct HDL PPD |
| | mg/dl | 114 | 96.9 | 131 | 8.55 | 17.10 | |
| | mmol/l | 2.91 | 2.47 | 3.35 | 0.22 | 0.44 | Direct HDL Immunoseparation |
| | mg/dl | 112 | 95.3 | 129 | 8.35 | 16.70 | |
| Iron | mmol/l | 2.95 | 2.51 | 3.39 | 0.22 | 0.44 | HDL - Ultra |
| | mg/dl | 114 | 96.9 | 131 | 8.55 | 17.10 | |
| | µmol/l | 40.8 | 33.5 | 48.1 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 228 | 187 | 269 | 20.50 | 41.00 | |
| Lactate | mmol/l | 4.72 | 3.87 | 5.57 | 0.43 | 0.85 | Colorimetric Lactate Oxidase |
| | mg/dl | 42.5 | 34.9 | 50.1 | 3.80 | 7.60 | |
| LD (LDH) | U/l | 302 | 256 | 348 | 23.00 | 46.00 | L->P 37°C |
| | U/l | 945 | 803 | 1087 | 71.00 | 142.00 | Pyruvate 1.4 mM - Beckman LD-P 37°C |
| Lipase | U/l | 60 | 48 | 72 | 6.00 | 12.00 | Other Colorimetric 37°C |
| Lithium | mmol/l | 2.03 | 1.78 | 2.28 | 0.13 | 0.25 | Spectrophotometric |
| | mg/dl | 1.41 | 1.24 | 1.58 | 0.09 | 0.17 | |
| Magnesium | mmol/l | 1.73 | 1.52 | 1.94 | 0.11 | 0.21 | Calmagite |
| | mg/dl | 4.20 | 3.69 | 4.71 | 0.26 | 0.51 | |
| Osmolality | mOsm/kg | 350 | 280 | 420 | 35.00 | 70.00 | Calculated |
| Phosphate Inorganic | mmol/l | 2.26 | 1.92 | 2.60 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 7.01 | 5.95 | 8.07 | 0.53 | 1.06 | |
| | mmol/l | 2.30 | 1.96 | 2.64 | 0.17 | 0.34 | Beckman PHOSm (365nm) |
| | mg/dl | 7.13 | 6.08 | 8.18 | 0.53 | 1.05 | |


Beckman CX4/5/7/9/LX20®/DxC600/800®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|------|-------|-------|---------------------------------------|
| Potassium | mmol/l | 6.21 | 5.72 | 6.70 | 0.25 | 0.49 | ISE method - indirect |
| Protein Total | g/l | 46.3 | 37.1 | 55.5 | 4.60 | 9.20 | Biuret reaction CX4/5/7 |
| | g/dl | 4.63 | 3.71 | 5.55 | 0.46 | 0.92 | |
| | g/l | 46.1 | 36.8 | 55.4 | 4.65 | 9.30 | Biuret reaction end point |
| | g/dl | 4.61 | 3.68 | 5.54 | 0.47 | 0.93 | |
| | g/l | 45.2 | 36.1 | 54.3 | 4.55 | 9.10 | Biuret reaction kinetic |
| | g/dl | 4.52 | 3.61 | 5.43 | 0.46 | 0.91 | |
| PSA Total | ng/ml = | 27.4 | 20.6 | 34.2 | 3.40 | 6.80 | Beckman DXI standardised to Hybritech |
| Sodium | mmol/l | 157 | 150 | 164 | 3.50 | 7.00 | ISE method - indirect |
| Thyroid Stimulating Hormone | µU/ml = | 1.17 | 0.94 | 1.40 | 0.12 | 0.23 | Beckman Dxl800 Hyper TSH |
| | µU/ml = | 1.17 | 0.94 | 1.40 | 0.12 | 0.23 | Beckman Dxl 600/800 Access (3rd IS) |
| TIBC | µmol/l | 56.6 | 44.7 | 68.5 | 5.95 | 11.90 | FE+UIBC(saturation with iron) |
| | µg/dl | 316 | 250 | 382 | 33.00 | 66.00 | |
| Total T3 | nmol/l | 3.40 | 2.55 | 4.25 | 0.43 | 0.85 | Beckman Dxl800 |
| | ng/ml | 2.21 | 1.66 | 2.76 | 0.28 | 0.55 | |
| | ng/dl | 221 | 166 | 276 | 27.50 | 55.00 | Beckman Dxl800 |
| Total T4 | nmol/l | 243 | 183 | 303 | 30.00 | 60.00 | Beckman Dxl800 |
| | µg/dl | 19.0 | 14.3 | 23.7 | 2.35 | 4.70 | |
| | ng/ml | 190 | 143 | 237 | 23.50 | 47.00 | Beckman Dxl800 |
| Triglycerides | mmol/l | 3.06 | 2.57 | 3.55 | 0.25 | 0.49 | Lipase/GPO-PAP no correction |
| | mg/dl | 271 | 227 | 315 | 22.00 | 44.00 | |
| | mmol/l | 3.14 | 2.63 | 3.65 | 0.26 | 0.51 | L/G Kinase EP. no correction |
| | mg/dl | 278 | 233 | 323 | 22.50 | 45.00 | |
| Urea | mmol/l | 20.1 | 17.1 | 23.1 | 1.50 | 3.00 | Beckman-Conductivity |
| | mg/dl | 121 | 103 | 139 | 9.00 | 18.00 | |

**Beckman CX4/5/7/9/LX20®/DxC600/800®**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|-------|---|
| Urea | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | |
| | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.4 | 49.6 | 67.2 | 4.40 | 8.80 | |
| Uric Acid (Urate) | mmol/l | 0.52 | 0.45 | 0.59 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.72 | 7.58 | 9.86 | 0.57 | 1.14 | |
| | mmol/l | 0.52 | 0.45 | 0.58 | 0.03 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 8.67 | 7.54 | 9.80 | 0.57 | 1.13 | |

BIOSYSTEMS A15

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|------------------------------|
| Albumin | g/l | 29.9 | 25.4 | 34.4 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 2.99 | 2.54 | 3.44 | 0.23 | 0.45 | |
| Alkaline Phosphatase | U/l | 307 | 261 | 353 | 23.00 | 46.00 | AMP optimised to IFCC 37°C |
| | U/l | 239 | 203 | 275 | 18.00 | 36.00 | AMP optimised to IFCC 30°C |
| | U/l | 196 | 167 | 225 | 14.50 | 29.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 157 | 125 | 189 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 116 | 93 | 139 | 11.50 | 23.00 | Tris buffer without P5P 30°C |
| | U/l | 88 | 70 | 106 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 154 | 123 | 185 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| | U/l | 104 | 83 | 125 | 10.50 | 21.00 | Tris buffer without P5P 30°C |
| | U/l | 73 | 59 | 87 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bilirubin Total | µmol/l | 88.4 | 69.9 | 107 | 9.25 | 18.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.17 | 4.09 | 6.25 | 0.54 | 1.08 | |
| Calcium | mmol/l | 3.16 | 2.84 | 3.48 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.7 | 11.4 | 14.0 | 0.65 | 1.30 | |
| | mmol/l | 2.95 | 2.65 | 3.25 | 0.15 | 0.30 | Arsenazo III |
| | mg/dl | 11.8 | 10.6 | 13.0 | 0.60 | 1.20 | |
| Cholesterol | mmol/l | 7.74 | 6.73 | 8.75 | 0.51 | 1.01 | Cholesterol Oxidase |
| | mg/dl | 299 | 260 | 338 | 19.50 | 39.00 | |
| Creatinine | µmol/l | 388 | 310 | 466 | 39.00 | 78.00 | Jaffe rate blanked |
| | mg/dl | 4.38 | 3.50 | 5.26 | 0.44 | 0.88 | |

BIOSYSTEMS A15

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| gamma-GT | U/l | 170 | 144 | 196 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 134 | 113 | 155 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 105 | 89 | 121 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.2 | 12.9 | 17.5 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 274 | 232 | 316 | 21.00 | 42.00 | |
| Phosphate Inorganic | mmol/l | 2.39 | 2.04 | 2.74 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.41 | 6.32 | 8.50 | 0.55 | 1.09 | |
| Protein Total | g/l | 48.8 | 39.1 | 58.5 | 4.85 | 9.70 | Biuret reaction end point |
| | g/dl | 4.88 | 3.91 | 5.85 | 0.49 | 0.97 | |
| Triglycerides | mmol/l | 2.88 | 2.42 | 3.34 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 255 | 214 | 296 | 20.50 | 41.00 | |
| Urea | mmol/l | 19.1 | 16.3 | 21.9 | 1.40 | 2.80 | Urease kinetic |
| | mg/dl | 115 | 98.0 | 132 | 8.50 | 17.00 | |
| | mmol/l | 19.1 | 16.2 | 22.0 | 1.45 | 2.90 | BUN |
| | mg/dl | 53.6 | 45.6 | 61.6 | 4.00 | 8.00 | |
| Uric Acid (Urate) | mmol/l | 0.56 | 0.48 | 0.63 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.32 | 8.11 | 10.5 | 0.61 | 1.21 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.21 | 8.01 | 10.4 | 0.60 | 1.20 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.07 | 7.90 | 10.2 | 0.59 | 1.17 | |

BIOSYSTEMS A25

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|---|
| Albumin | g/l | 29.9 | 25.4 | 34.4 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 2.99 | 2.54 | 3.44 | 0.23 | 0.45 | |
| Alkaline Phosphatase | U/l | 304 | 258 | 350 | 23.00 | 46.00 | AMP optimised to IFCC 37°C |
| | U/l | 237 | 201 | 273 | 18.00 | 36.00 | AMP optimised to IFCC 30°C |
| | U/l | 194 | 165 | 223 | 14.50 | 29.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 159 | 127 | 191 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 118 | 94 | 142 | 12.00 | 24.00 | Tris buffer without P5P 30°C |
| | U/l | 90 | 72 | 108 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 157 | 126 | 188 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| | U/l | 106 | 85 | 127 | 10.50 | 21.00 | Tris buffer without P5P 30°C |
| | U/l | 75 | 60 | 90 | 7.50 | 15.00 | Tris buffer without P5P 25°C |
| Calcium | mmol/l | 3.21 | 2.89 | 3.53 | 0.16 | 0.32 | Arsenazo III |
| | mg/dl | 12.9 | 11.6 | 14.2 | 0.65 | 1.30 | |
| Cholesterol | mmol/l | 7.63 | 6.63 | 8.63 | 0.50 | 1.00 | Cholesterol Oxidase |
| | mg/dl | 295 | 256 | 334 | 19.50 | 39.00 | |
| Creatinine | µmol/l | 342 | 273 | 411 | 34.50 | 69.00 | Alkaline picrate no deproteinization |
| | mg/dl | 3.86 | 3.08 | 4.64 | 0.39 | 0.78 | |
| gamma-GT | U/l | 177 | 150 | 204 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 139 | 118 | 160 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 109 | 93 | 125 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.7 | 13.3 | 18.1 | 1.20 | 2.40 | Glucose oxidase |
| | mg/dl | 283 | 240 | 326 | 21.50 | 43.00 | |

BIOSYSTEMS A25

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| HDL - Cholesterol | mmol/l | 3.04 | 2.58 | 3.50 | 0.23 | 0.46 | Direct HDL PPD |
| | mg/dl | 117 | 99.6 | 134 | 8.70 | 17.40 | |
| | mmol/l | 2.72 | 2.31 | 3.13 | 0.21 | 0.41 | Direct HDL Immunoseparation |
| | mg/dl | 105 | 89.2 | 121 | 7.90 | 15.80 | |
| Protein Total | g/l | 47.6 | 38.1 | 57.1 | 4.75 | 9.50 | Biuret reaction end point |
| | g/dl | 4.76 | 3.81 | 5.71 | 0.48 | 0.95 | |
| Triglycerides | mmol/l | 2.89 | 2.43 | 3.35 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 256 | 215 | 297 | 20.50 | 41.00 | |
| Urea | mmol/l | 19.2 | 16.3 | 22.1 | 1.45 | 2.90 | Urease kinetic |
| | mg/dl | 115 | 98.0 | 132 | 8.50 | 17.00 | |
| | mmol/l | 19.2 | 16.3 | 22.1 | 1.45 | 2.90 | BUN |
| | mg/dl | 53.9 | 45.8 | 62.0 | 4.05 | 8.10 | |
| Uric Acid (Urate) | mmol/l | 0.57 | 0.50 | 0.64 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.56 | 8.32 | 10.8 | 0.62 | 1.24 | |
| | mmol/l | 0.59 | 0.51 | 0.66 | 0.04 | 0.08 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.84 | 8.57 | 11.1 | 0.64 | 1.27 | |
| | mmol/l | 0.57 | 0.50 | 0.65 | 0.04 | 0.08 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.64 | 8.38 | 10.9 | 0.63 | 1.26 | |

Biotechnica/Wiener BT and CB Series

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|--------------------------------|
| Albumin | g/l | 29.9 | 25.4 | 34.4 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 2.99 | 2.54 | 3.44 | 0.23 | 0.45 | |
| Alkaline Phosphatase | U/l | 449 | 381 | 517 | 34.00 | 68.00 | Diethanolamine buffer DEA 37°C |
| | U/l | 350 | 297 | 403 | 26.50 | 53.00 | Diethanolamine buffer DEA 30°C |
| | U/l | 287 | 243 | 331 | 22.00 | 44.00 | Diethanolamine buffer DEA 25°C |
| ALT (GPT) | U/l | 160 | 128 | 192 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 118 | 95 | 141 | 11.50 | 23.00 | Tris buffer without P5P 30°C |
| | U/l | 90 | 72 | 108 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 154 | 124 | 184 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 104 | 84 | 124 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 73 | 59 | 87 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bilirubin Direct | µmol/l | 28.1 | 22.2 | 34.0 | 2.95 | 5.90 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.64 | 1.30 | 1.98 | 0.17 | 0.34 | |
| Bilirubin Total | µmol/l | 86.0 | 67.9 | 104 | 9.05 | 18.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.03 | 3.97 | 6.09 | 0.53 | 1.06 | |
| Calcium | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |
| | mmol/l | 2.95 | 2.65 | 3.25 | 0.15 | 0.30 | Arsenazo III |
| | mg/dl | 11.8 | 10.6 | 13.0 | 0.60 | 1.20 | |
| Chloride | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | Colorimetric |
| Cholesterol | mmol/l | 7.67 | 6.68 | 8.66 | 0.50 | 0.99 | Cholesterol Oxidase |
| | mg/dl | 296 | 258 | 334 | 19.00 | 38.00 | |



Biotechnica/Wiener BT and CB Series

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------|--------|--------|------|------|--------|---------|---|
| Cholinesterase | U/l | 5324 | 4259 | 6389 | 532.50 | 1065.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 515 | 423 | 607 | 46.00 | 92.00 | CK-NAC (IFCC) 37°C |
| | U/l | 322 | 265 | 379 | 28.50 | 57.00 | CK-NAC (IFCC) 30°C |
| | U/l | 219 | 180 | 258 | 19.50 | 39.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 359 | 287 | 431 | 36.00 | 72.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.06 | 3.24 | 4.88 | 0.41 | 0.82 | |
| | µmol/l | 368 | 294 | 442 | 37.00 | 74.00 | Jaffe rate blanked |
| | mg/dl | 4.16 | 3.32 | 5.00 | 0.42 | 0.84 | |
| gamma-GT | U/l | 164 | 140 | 188 | 12.00 | 24.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 129 | 110 | 148 | 9.50 | 19.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 101 | 86 | 116 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 163 | 139 | 187 | 12.00 | 24.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 128 | 110 | 146 | 9.00 | 18.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 101 | 86 | 116 | 7.50 | 15.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.7 | 13.3 | 18.1 | 1.20 | 2.40 | Glucose oxidase |
| | mg/dl | 283 | 240 | 326 | 21.50 | 43.00 | |
| LD (LDH) | U/l | 664 | 564 | 764 | 50.00 | 100.00 | P->L Scandinavian & Dutch 37°C |
| | U/l | 479 | 407 | 551 | 36.00 | 72.00 | P->L Scandinavian & Dutch 30°C |
| | U/l | 337 | 286 | 388 | 25.50 | 51.00 | P->L Scandinavian & Dutch 25°C |
| | U/l | 660 | 561 | 759 | 49.50 | 99.00 | P->L German methods 37°C |
| | U/l | 477 | 405 | 549 | 36.00 | 72.00 | P->L German methods 30°C |
| | U/l | 335 | 284 | 386 | 25.50 | 51.00 | P->L German methods 25°C |
| | U/l | 749 | 637 | 861 | 56.00 | 112.00 | P->L SFBC 37°C |
| | U/l | 541 | 460 | 622 | 40.50 | 81.00 | P->L SFBC 30°C |
| | U/l | 380 | 323 | 437 | 28.50 | 57.00 | P->L SFBC 25°C |

Biotechnica/Wiener BT and CB Series

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| Lipase | U/l | 66 | 53 | 79 | 6.50 | 13.00 | Other Colorimetric 37°C |
| Phosphate Inorganic | mmol/l | 2.31 | 1.96 | 2.66 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.16 | 6.08 | 8.24 | 0.54 | 1.08 | |
| Protein Total | g/l | 50.2 | 40.2 | 60.2 | 5.00 | 10.00 | Biuret reaction end point |
| | g/dl | 5.02 | 4.02 | 6.02 | 0.50 | 1.00 | |
| Triglycerides | mmol/l | 2.87 | 2.41 | 3.33 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 254 | 213 | 295 | 20.50 | 41.00 | |
| Urea | mmol/l | 20.9 | 17.7 | 24.1 | 1.60 | 3.20 | Urease kinetic |
| | mg/dl | 126 | 106 | 146 | 10.00 | 20.00 | |
| | mmol/l | 20.9 | 17.8 | 24.0 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.7 | 49.9 | 67.5 | 4.40 | 8.80 | |
| Uric Acid (Urate) | mmol/l | 0.53 | 0.47 | 0.60 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.97 | 7.81 | 10.1 | 0.58 | 1.16 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.03 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.00 | 7.85 | 10.2 | 0.58 | 1.15 | |
| | mmol/l | 0.55 | 0.47 | 0.62 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.16 | 7.96 | 10.4 | 0.60 | 1.20 | |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-----------------------------------|
| Albumin | g/l | 31.1 | 26.5 | 35.7 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.11 | 2.65 | 3.57 | 0.23 | 0.46 | |
| | g/l | 30.7 | 26.1 | 35.3 | 2.30 | 4.60 | Bromocresol Purple |
| | g/dl | 3.07 | 2.61 | 3.53 | 0.23 | 0.46 | |
| | g/l | 28.8 | 24.5 | 33.1 | 2.15 | 4.30 | Turbidimetric Assays |
| | g/dl | 2.88 | 2.45 | 3.31 | 0.22 | 0.43 | |
| Alkaline Phosphatase | U/l | 258 | 219 | 297 | 19.50 | 39.00 | Roche Integra AMP buffer 37°C |
| | U/l | 201 | 171 | 231 | 15.00 | 30.00 | Roche Integra AMP buffer 30°C |
| | U/l | 165 | 140 | 190 | 12.50 | 25.00 | Roche Integra AMP buffer 25°C |
| ALT (GPT) | U/l | 147 | 118 | 176 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 109 | 87 | 131 | 11.00 | 22.00 | Tris buffer without P5P 30°C |
| | U/l | 83 | 66 | 100 | 8.50 | 17.00 | Tris buffer without P5P 25°C |
| Amylase Pancreatic | U/l | 252 | 214 | 290 | 19.00 | 38.00 | Roche EPS Liquid 37°C |
| Amylase Total | U/l | 274 | 233 | 315 | 20.50 | 41.00 | Roche Integra 2-chloro-pNPG7 37°C |
| | U/l | 276 | 235 | 317 | 20.50 | 41.00 | Roche liquid stable pNPG7 37°C |
| AST (GOT) | U/l | 142 | 113 | 171 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 96 | 76 | 116 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 68 | 54 | 82 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bicarbonate | mmol/l | 17.2 | 13.7 | 20.7 | 1.75 | 3.50 | Enzymatic |
| Bilirubin Direct | µmol/l | 29.3 | 23.1 | 35.5 | 3.10 | 6.20 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.71 | 1.35 | 2.07 | 0.18 | 0.36 | |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|--------|---------|--------------------------------------|
| Bilirubin Direct | µmol/l | 29.1 | 23.0 | 35.2 | 3.05 | 6.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.70 | 1.35 | 2.05 | 0.18 | 0.35 | |
| | µmol/l | 29.1 | 23.0 | 35.2 | 3.05 | 6.10 | Roche JG factored |
| | mg/dl | 1.70 | 1.35 | 2.05 | 0.18 | 0.35 | |
| | µmol/l | 29.6 | 23.3 | 35.9 | 3.15 | 6.30 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.73 | 1.36 | 2.10 | 0.19 | 0.37 | |
| Bilirubin Total | µmol/l | 77.7 | 61.4 | 94.0 | 8.15 | 16.30 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 4.55 | 3.59 | 5.51 | 0.48 | 0.96 | |
| | µmol/l | 77.6 | 61.3 | 93.9 | 8.15 | 16.30 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.54 | 3.59 | 5.49 | 0.48 | 0.95 | |
| | µmol/l | 76.7 | 60.6 | 92.8 | 8.05 | 16.10 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.49 | 3.55 | 5.43 | 0.47 | 0.94 | |
| | µmol/l | 77.8 | 61.4 | 94.2 | 8.20 | 16.40 | Diazonium ion |
| | mg/dl | 4.55 | 3.59 | 5.51 | 0.48 | 0.96 | |
| Calcium | mmol/l | 3.13 | 2.82 | 3.44 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.5 | 11.3 | 13.7 | 0.60 | 1.20 | |
| | mmol/l | 3.18 | 2.86 | 3.50 | 0.16 | 0.32 | Arsenazo III |
| | mg/dl | 12.7 | 11.5 | 13.9 | 0.60 | 1.20 | |
| | mmol/l | 3.14 | 2.83 | 3.45 | 0.16 | 0.31 | NM-BAPTA |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.54 | 6.56 | 8.52 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 291 | 253 | 329 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 5492 | 4394 | 6590 | 549.00 | 1098.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 476 | 391 | 561 | 42.50 | 85.00 | CK-NAC serum start (DGKC) 37°C |
| | U/l | 298 | 245 | 351 | 26.50 | 53.00 | CK-NAC serum start (DGKC) 30°C |
| | U/l | 202 | 166 | 238 | 18.00 | 36.00 | CK-NAC serum start (DGKC) 25°C |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|-------|-------|---|---|
| CK Total | U/l | 480 | 394 | 566 | 43.00 | 86.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 300 | 247 | 353 | 26.50 | 53.00 | CK-NAC substrate start (DGKC) 30°C |
| | U/l | 204 | 167 | 241 | 18.50 | 37.00 | CK-NAC substrate start (DGKC) 25°C |
| | U/l | 480 | 393 | 567 | 43.50 | 87.00 | CK-NAC (IFCC) 37°C |
| | U/l | 300 | 246 | 354 | 27.00 | 54.00 | CK-NAC (IFCC) 30°C |
| | U/l | 204 | 167 | 241 | 18.50 | 37.00 | CK-NAC (IFCC) 25°C |
| | U/l | 489 | 401 | 577 | 44.00 | 88.00 | Creatinine phosphate substrate Start 37°C |
| | U/l | 306 | 251 | 361 | 27.50 | 55.00 | Creatinine phosphate substrate Start 30°C |
| | U/l | 208 | 170 | 246 | 19.00 | 38.00 | Creatinine phosphate substrate Start 25°C |
| Creatinine | µmol/l | 371 | 297 | 445 | 37.00 | 74.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.19 | 3.36 | 5.02 | 0.42 | 0.83 | |
| | µmol/l | 373 | 298 | 448 | 37.50 | 75.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.21 | 3.37 | 5.05 | 0.42 | 0.84 | |
| | µmol/l | 386 | 309 | 463 | 38.50 | 77.00 | Enzymatic UV method |
| | mg/dl | 4.36 | 3.49 | 5.23 | 0.44 | 0.87 | |
| | µmol/l | 383 | 306 | 460 | 38.50 | 77.00 | Roche Creatinine Plus |
| | mg/dl | 4.33 | 3.46 | 5.20 | 0.44 | 0.87 | |
| | µmol/l | 359 | 287 | 431 | 36.00 | 72.00 | Jaffe rate blanked |
| | mg/dl | 4.06 | 3.24 | 4.88 | 0.41 | 0.82 | |
| | µmol/l | 374 | 299 | 449 | 37.50 | 75.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.23 | 3.38 | 5.08 | 0.43 | 0.85 | |
| µmol/l | 371 | 297 | 445 | 37.00 | 74.00 | Jaffe rate blanked compensated (-18 µmol/l) | |
| mg/dl | 4.19 | 3.36 | 5.02 | 0.42 | 0.83 | | |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|--------|---|
| gamma-GT | U/l | 167 | 142 | 192 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 132 | 112 | 152 | 10.00 | 20.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 103 | 88 | 118 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 176 | 149 | 203 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 139 | 117 | 161 | 11.00 | 22.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 109 | 92 | 126 | 8.50 | 17.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose dehydrogenase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |
| | mmol/l | 15.7 | 13.3 | 18.1 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 283 | 240 | 326 | 21.50 | 43.00 | |
| | mmol/l | 15.7 | 13.3 | 18.1 | 1.20 | 2.40 | Glucose oxidase |
| | mg/dl | 283 | 240 | 326 | 21.50 | 43.00 | |
| HDL - Cholesterol | mmol/l | 3.55 | 3.02 | 4.08 | 0.27 | 0.53 | Direct HDL PEGME |
| | mg/dl | 137 | 117 | 157 | 10.00 | 20.00 | |
| | mmol/l | 3.55 | 3.02 | 4.08 | 0.27 | 0.53 | Direct HDL Roche 3rd generation |
| | mg/dl | 137 | 117 | 157 | 10.00 | 20.00 | |
| Iron | µmol/l | 41.2 | 33.8 | 48.6 | 3.70 | 7.40 | Colorimetric with ppt. |
| | µg/dl | 230 | 189 | 271 | 20.50 | 41.00 | |
| | µmol/l | 41.7 | 34.2 | 49.2 | 3.75 | 7.50 | Colorimetric without ppt. |
| | µg/dl | 233 | 191 | 275 | 21.00 | 42.00 | |
| Lactate | mmol/l | 5.24 | 4.30 | 6.18 | 0.47 | 0.94 | Colorimetric Lactate Oxidase |
| | mg/dl | 47.2 | 38.7 | 55.7 | 4.25 | 8.50 | |
| LD (LDH) | U/l | 722 | 614 | 830 | 54.00 | 108.00 | P->L German methods 37°C |
| | U/l | 521 | 443 | 599 | 39.00 | 78.00 | P->L German methods 30°C |
| | U/l | 366 | 311 | 421 | 27.50 | 55.00 | P->L German methods 25°C |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|--------------------------------------|
| LD (LDH) | U/l | 383 | 326 | 440 | 28.50 | 57.00 | L->P IFCC 37°C |
| | U/l | 277 | 235 | 319 | 21.00 | 42.00 | L->P IFCC 30°C |
| | U/l | 194 | 165 | 223 | 14.50 | 29.00 | L->P IFCC 25°C |
| Lipase | U/l | 66 | 53 | 79 | 6.50 | 13.00 | Roche Colorimetric 37°C |
| Lithium | mmol/l | 2.14 | 1.89 | 2.39 | 0.13 | 0.25 | Ion selective electrode |
| | mg/dl | 1.49 | 1.31 | 1.67 | 0.09 | 0.18 | |
| Magnesium | mmol/l | 1.82 | 1.60 | 2.04 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.42 | 3.89 | 4.95 | 0.27 | 0.53 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Chlorphosphonazo III |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| Phosphate Inorganic | mmol/l | 2.28 | 1.94 | 2.62 | 0.17 | 0.34 | Phosphomolybdate enzymatic |
| | mg/dl | 7.07 | 6.01 | 8.13 | 0.53 | 1.06 | |
| | mmol/l | 2.29 | 1.94 | 2.64 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.10 | 6.01 | 8.19 | 0.55 | 1.09 | |
| Potassium | mmol/l | 6.26 | 5.76 | 6.76 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 44.5 | 35.6 | 53.4 | 4.45 | 8.90 | Biuret reaction end point |
| | g/dl | 4.45 | 3.56 | 5.34 | 0.45 | 0.89 | |
| | g/l | 44.7 | 35.8 | 53.6 | 4.45 | 8.90 | Biuret reaction kinetic |
| | g/dl | 4.47 | 3.58 | 5.36 | 0.45 | 0.89 | |
| Sodium | mmol/l | 159 | 151 | 167 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | µmol/l | 53.9 | 42.6 | 65.2 | 5.65 | 11.30 | FE+UIBC(saturation with iron) |
| | µg/dl | 301 | 238 | 364 | 31.50 | 63.00 | |
| Triglycerides | mmol/l | 2.95 | 2.47 | 3.43 | 0.24 | 0.48 | Lipase/GPO-PAP no correction |
| | mg/dl | 261 | 219 | 303 | 21.00 | 42.00 | |
| | mmol/l | 2.95 | 2.48 | 3.42 | 0.24 | 0.47 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 261 | 219 | 303 | 21.00 | 42.00 | |

COBAS INTEGRA®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Triglycerides | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.45 | 3.37 | 0.23 | 0.46 | L/G kinase EP. 0.11 mmol/l correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| Urea | mmol/l | 2.99 | 2.51 | 3.47 | 0.24 | 0.48 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 265 | 222 | 308 | 21.50 | 43.00 | |
| | mmol/l | 19.6 | 16.7 | 22.5 | 1.45 | 2.90 | Urease end point |
| | mg/dl | 118 | 100 | 136 | 9.00 | 18.00 | |
| Urea | mmol/l | 19.8 | 16.9 | 22.7 | 1.45 | 2.90 | Urease kinetic |
| | mg/dl | 119 | 102 | 136 | 8.50 | 17.00 | |
| | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | BUN |
| | mg/dl | 55.6 | 47.3 | 63.9 | 4.15 | 8.30 | |
| Uric Acid (Urate) | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.19 | 8.00 | 10.4 | 0.60 | 1.19 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.17 | 7.98 | 10.4 | 0.60 | 1.19 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.11 | 7.93 | 10.3 | 0.59 | 1.18 | |

Elitech/Vitalab Selectra Series

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|---|
| Albumin | g/l | 31.7 | 26.9 | 36.5 | 2.40 | 4.80 | Bromocresol Green |
| | g/dl | 3.17 | 2.69 | 3.65 | 0.24 | 0.48 | |
| Alkaline Phosphatase | U/l | 448 | 381 | 515 | 33.50 | 67.00 | Diethanolamine buffer DEA 37°C |
| ALT (GPT) | U/l | 157 | 125 | 189 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| AST (GOT) | U/l | 142 | 113 | 171 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| Bilirubin Direct | µmol/l | 28.7 | 22.7 | 34.7 | 3.00 | 6.00 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.68 | 1.33 | 2.03 | 0.18 | 0.35 | |
| Bilirubin Total | µmol/l | 86.8 | 68.6 | 105 | 9.10 | 18.20 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.08 | 4.01 | 6.15 | 0.54 | 1.07 | |
| Calcium | mmol/l | 3.09 | 2.78 | 3.40 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.4 | 11.1 | 13.7 | 0.65 | 1.30 | |
| Chloride | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | Colorimetric |
| Cholesterol | mmol/l | 7.55 | 6.57 | 8.53 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 291 | 254 | 328 | 18.50 | 37.00 | |
| Creatinine | µmol/l | 348 | 278 | 418 | 35.00 | 70.00 | Alkaline picrate no deproteinization |
| | mg/dl | 3.93 | 3.14 | 4.72 | 0.40 | 0.79 | |
| | µmol/l | 366 | 293 | 439 | 36.50 | 73.00 | Enzymatic UV method |
| | mg/dl | 4.14 | 3.31 | 4.97 | 0.42 | 0.83 | |
| | µmol/l | 365 | 292 | 438 | 36.50 | 73.00 | Creatinine PAP method |
| | mg/dl | 4.12 | 3.30 | 4.94 | 0.41 | 0.82 | |
| | µmol/l | 348 | 278 | 418 | 35.00 | 70.00 | Alkaline picrate no deproteinization |
| | mg/dl | 3.93 | 3.14 | 4.72 | 0.40 | 0.79 | |
| gamma-GT | U/l | 173 | 147 | 199 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |

Elitech/Vitalab Selectra Series

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| Glucose | mmol/l | 15.3 | 13.0 | 17.6 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 276 | 234 | 318 | 21.00 | 42.00 | |
| LD (LDH) | U/l | 388 | 330 | 446 | 29.00 | 58.00 | L->P IFCC 37°C |
| Magnesium | mmol/l | 1.82 | 1.60 | 2.04 | 0.11 | 0.22 | Calmagite |
| | mg/dl | 4.42 | 3.89 | 4.95 | 0.27 | 0.53 | |
| Phosphate Inorganic | mmol/l | 2.30 | 1.95 | 2.65 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.13 | 6.05 | 8.21 | 0.54 | 1.08 | |
| Protein Total | g/l | 48.6 | 38.9 | 58.3 | 4.85 | 9.70 | Biuret reaction end point |
| | g/dl | 4.86 | 3.89 | 5.83 | 0.49 | 0.97 | |
| Triglycerides | mmol/l | 2.85 | 2.39 | 3.31 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 252 | 212 | 292 | 20.00 | 40.00 | |
| Urea | mmol/l | 19.7 | 16.7 | 22.7 | 1.50 | 3.00 | Urease kinetic |
| | mg/dl | 118 | 100 | 136 | 9.00 | 18.00 | |
| | mmol/l | 19.7 | 16.7 | 22.7 | 1.50 | 3.00 | BUN |
| | mg/dl | 55.3 | 47.0 | 63.6 | 4.15 | 8.30 | |
| Uric Acid (Urate) | mmol/l | 0.57 | 0.50 | 0.64 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.58 | 8.33 | 10.8 | 0.63 | 1.25 | |
| | mmol/l | 0.56 | 0.49 | 0.64 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.48 | 8.25 | 10.7 | 0.62 | 1.23 | |
| | mmol/l | 0.56 | 0.49 | 0.63 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.37 | 8.16 | 10.6 | 0.61 | 1.21 | |

HITACHI SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 30.6 | 26.0 | 35.2 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.06 | 2.60 | 3.52 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 242 | 206 | 278 | 18.00 | 36.00 | Roche Integra AMP buffer 37°C |
| | U/l | 189 | 160 | 218 | 14.50 | 29.00 | Roche Integra AMP buffer 30°C |
| | U/l | 155 | 132 | 178 | 11.50 | 23.00 | Roche Integra AMP buffer 25°C |
| | U/l | 320 | 272 | 368 | 24.00 | 48.00 | Randox AMP 37°C |
| | U/l | 249 | 212 | 286 | 18.50 | 37.00 | Randox AMP 30°C |
| | U/l | 204 | 174 | 234 | 15.00 | 30.00 | Randox AMP 25°C |
| ALT (GPT) | U/l | 156 | 125 | 187 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| | U/l | 115 | 93 | 137 | 11.00 | 22.00 | Tris buffer without P5P 30°C |
| | U/l | 88 | 70 | 106 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| Amylase Pancreatic | U/l | 240 | 204 | 276 | 18.00 | 36.00 | Roche EPS Liquid 37°C |
| | U/l | 287 | 244 | 330 | 21.50 | 43.00 | Randox Liquid Ethylidene pNPG7 37°C |
| Amylase Total | U/l | 271 | 230 | 312 | 20.50 | 41.00 | Roche liquid stable pNPG7 37°C |
| | U/l | 296 | 252 | 340 | 22.00 | 44.00 | Randox Liquid Ethylidene pNPG7 37°C |
| AST (GOT) | U/l | 150 | 120 | 180 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 101 | 81 | 121 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 71 | 57 | 85 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bile Acids | µmol/l | 47.9 | 38.3 | 57.5 | 4.80 | 9.60 | 5th Generation Colorimetric |
| Bilirubin Direct | µmol/l | 26.7 | 21.1 | 32.3 | 2.80 | 5.60 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.56 | 1.23 | 1.89 | 0.17 | 0.33 | |

HITACHI SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|--------|------------|--|
| Bilirubin Direct | µmol/l | 26.7 | 21.1 | 32.3 | 2.80 | 5.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.56 | 1.23 | 1.89 | 0.17 | 0.33 | |
| Bilirubin Total | µmol/l | 85.7 | 67.7 | 104 | 9.00 | 18.00 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 5.01 | 3.96 | 6.06 | 0.53 | 1.05 | |
| | µmol/l | 86.3 | 68.2 | 104 | 9.05 | 18.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.05 | 3.99 | 6.11 | 0.53 | 1.06 | |
| | µmol/l | 81.5 | 64.4 | 98.6 | 8.55 | 17.10 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.77 | 3.77 | 5.77 | 0.50 | 1.00 | |
| | µmol/l | 79.6 | 62.9 | 96.3 | 8.35 | 16.70 | Diazonium ion |
| | mg/dl | 4.66 | 3.68 | 5.64 | 0.49 | 0.98 | |
| Calcium | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |
| | mmol/l | 3.19 | 2.87 | 3.51 | 0.16 | 0.32 | Arsenazo III |
| | mg/dl | 12.8 | 11.5 | 14.1 | 0.65 | 1.30 | |
| mmol/l | 3.08 | 2.78 | 3.38 | 0.15 | 0.30 | Phosponazo | |
| mg/dl | 12.3 | 11.1 | 13.5 | 0.60 | 1.20 | | |
| Chloride | mmol/l | 112 | 103 | 121 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.62 | 6.63 | 8.61 | 0.50 | 0.99 | Cholesterol Oxidase |
| | mg/dl | 294 | 256 | 332 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 5296 | 4237 | 6355 | 529.50 | 1059.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 501 | 411 | 591 | 45.00 | 90.00 | CK-NAC (IFCC) 37°C |
| | U/l | 314 | 257 | 371 | 28.50 | 57.00 | CK-NAC (IFCC) 30°C |
| | U/l | 213 | 175 | 251 | 19.00 | 38.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 358 | 286 | 430 | 36.00 | 72.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.05 | 3.23 | 4.87 | 0.41 | 0.82 | |

HITACHI SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|------|-------|--------|--|
| Creatinine | µmol/l | 366 | 293 | 439 | 36.50 | 73.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.14 | 3.31 | 4.97 | 0.42 | 0.83 | |
| | µmol/l | 377 | 301 | 453 | 38.00 | 76.00 | Creatinine PAP method |
| | mg/dl | 4.26 | 3.40 | 5.12 | 0.43 | 0.86 | |
| | µmol/l | 373 | 298 | 448 | 37.50 | 75.00 | Jaffe rate blanked |
| | mg/dl | 4.21 | 3.37 | 5.05 | 0.42 | 0.84 | |
| | µmol/l | 371 | 297 | 445 | 37.00 | 74.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.19 | 3.36 | 5.02 | 0.42 | 0.83 | |
| gamma-GT | U/l | 163 | 139 | 187 | 12.00 | 24.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 128 | 110 | 146 | 9.00 | 18.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 101 | 86 | 116 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 173 | 147 | 199 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 136 | 116 | 156 | 10.00 | 20.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 107 | 91 | 123 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| | U/l | 183 | 156 | 210 | 13.50 | 27.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 144 | 123 | 165 | 10.50 | 21.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 113 | 96 | 130 | 8.50 | 17.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| Glucose | mmol/l | 15.4 | 13.1 | 17.7 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 278 | 236 | 320 | 21.00 | 42.00 | |
| | mmol/l | 15.8 | 13.5 | 18.1 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 285 | 243 | 327 | 21.00 | 42.00 | |
| Iron | µmol/l | 40.6 | 33.3 | 47.9 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 227 | 186 | 268 | 20.50 | 41.00 | |
| LD (LDH) | U/l | 705 | 599 | 811 | 53.00 | 106.00 | P->L German methods 37°C |
| | U/l | 509 | 432 | 586 | 38.50 | 77.00 | P->L German methods 30°C |
| | U/l | 357 | 304 | 410 | 26.50 | 53.00 | P->L German methods 25°C |

HITACHI SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| LD (LDH) | U/l | 375 | 318 | 432 | 28.50 | 57.00 | L->P IFCC 37°C |
| | U/l | 271 | 230 | 312 | 20.50 | 41.00 | L->P IFCC 30°C |
| | U/l | 190 | 161 | 219 | 14.50 | 29.00 | L->P IFCC 25°C |
| Lipase | U/l | 58 | 46 | 70 | 6.00 | 12.00 | Roche Colorimetric 37°C |
| Magnesium | mmol/l | 1.74 | 1.53 | 1.95 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.23 | 3.72 | 4.74 | 0.26 | 0.51 | |
| Phosphate Inorganic | mmol/l | 2.28 | 1.94 | 2.62 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 7.07 | 6.01 | 8.13 | 0.53 | 1.06 | |
| Potassium | mmol/l | 6.31 | 5.81 | 6.81 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 47.1 | 37.7 | 56.5 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.71 | 3.77 | 5.65 | 0.47 | 0.94 | |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Triglycerides | mmol/l | 2.92 | 2.45 | 3.39 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |
| Urea | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | Urease end point |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | |
| | mmol/l | 21.2 | 18.0 | 24.4 | 1.60 | 3.20 | Urease kinetic |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| | mmol/l | 21.2 | 18.0 | 24.4 | 1.60 | 3.20 | BUN |
| | mg/dl | 59.5 | 50.6 | 68.4 | 4.45 | 8.90 | |
| Uric Acid (Urate) | mmol/l | 0.58 | 0.50 | 0.65 | 0.04 | 0.08 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.66 | 8.40 | 10.9 | 0.63 | 1.26 | |

**HITACHI SERIES®****ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)**

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|---|
| Uric Acid (Urate) | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.21 | 8.01 | 10.4 | 0.60 | 1.20 | |
| | mmol/l | 0.56 | 0.48 | 0.63 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.32 | 8.11 | 10.5 | 0.61 | 1.21 | |

ILab 600®/650®/Aries/Taurus

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|-------|------|-------|-------|--------------------------------|
| Albumin | g/l | 29.8 | 25.3 | 34.3 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 2.98 | 2.53 | 3.43 | 0.23 | 0.45 | |
| Alkaline Phosphatase | U/l | 313 | 266 | 360 | 23.50 | 47.00 | AMP optimised to IFCC 37°C |
| | U/l | 244 | 207 | 281 | 18.50 | 37.00 | AMP optimised to IFCC 30°C |
| | U/l | 200 | 170 | 230 | 15.00 | 30.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 143 | 115 | 171 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| | U/l | 106 | 85 | 127 | 10.50 | 21.00 | Tris buffer without P5P 30°C |
| | U/l | 81 | 65 | 97 | 8.00 | 16.00 | Tris buffer without P5P 25°C |
| Amylase Total | U/l | 300 | 255 | 345 | 22.50 | 45.00 | I.L. 2-chloro-pNPG3 37°C |
| AST (GOT) | U/l | 140 | 112 | 168 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| | U/l | 95 | 76 | 114 | 9.50 | 19.00 | Tris buffer without P5P 30°C |
| | U/l | 67 | 53 | 81 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bilirubin Direct | µmol/l | 18.7 | 14.8 | 22.6 | 1.95 | 3.90 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.09 | 0.866 | 1.31 | 0.11 | 0.22 | |
| Bilirubin Total | µmol/l | 86.6 | 68.4 | 105 | 9.10 | 18.20 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.07 | 4.00 | 6.14 | 0.54 | 1.07 | |
| | µmol/l | 91.7 | 72.4 | 111 | 9.65 | 19.30 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 5.36 | 4.24 | 6.48 | 0.56 | 1.12 | |
| Calcium | mmol/l | 3.19 | 2.87 | 3.51 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.8 | 11.5 | 14.1 | 0.65 | 1.30 | |
| Chloride | mmol/l | 112 | 103 | 121 | 4.50 | 9.00 | ISE indirect |


ILab 600®/650®/Aries/Taurus
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------|--------|--------|------|------|--------|---------|---|
| Cholesterol | mmol/l | 7.55 | 6.57 | 8.53 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 291 | 254 | 328 | 18.50 | 37.00 | |
| Cholinesterase | U/l | 5469 | 4375 | 6563 | 547.00 | 1094.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 445 | 365 | 525 | 40.00 | 80.00 | CK-NAC (IFCC) 37°C |
| | U/l | 279 | 228 | 330 | 25.50 | 51.00 | CK-NAC (IFCC) 30°C |
| | U/l | 189 | 155 | 223 | 17.00 | 34.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 360 | 288 | 432 | 36.00 | 72.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.07 | 3.25 | 4.89 | 0.41 | 0.82 | |
| | µmol/l | 404 | 323 | 485 | 40.50 | 81.00 | Enzymatic UV method |
| | mg/dl | 4.57 | 3.65 | 5.49 | 0.46 | 0.92 | |
| | µmol/l | 377 | 301 | 453 | 38.00 | 76.00 | Jaffe rate blanked |
| | mg/dl | 4.26 | 3.40 | 5.12 | 0.43 | 0.86 | |
| | µmol/l | 380 | 304 | 456 | 38.00 | 76.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.29 | 3.44 | 5.14 | 0.43 | 0.85 | |
| | µmol/l | 351 | 281 | 421 | 35.00 | 70.00 | Jaffe rate blanked compensated (-18 µmol/l) |
| | mg/dl | 3.97 | 3.18 | 4.76 | 0.40 | 0.79 | |
| gamma-GT | U/l | 162 | 138 | 186 | 12.00 | 24.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 128 | 109 | 147 | 9.50 | 19.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 100 | 85 | 115 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 163 | 138 | 188 | 12.50 | 25.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 128 | 109 | 147 | 9.50 | 19.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 101 | 85 | 117 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| | | | | | | | |
| Glucose | mmol/l | 15.5 | 13.2 | 17.8 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 279 | 238 | 320 | 20.50 | 41.00 | |
| | mmol/l | 15.3 | 13.0 | 17.6 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 276 | 234 | 318 | 21.00 | 42.00 | |

ILab 600®/650®/Aries/Taurus

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

| Analyte | unit | Target | Range | | 1SD | 2SD | methods |
|---------------------|--------|--------|-------|------|-------|--------|------------------------------|
| | | | low | high | | | |
| HDL - Cholesterol | mmol/l | 2.26 | 1.92 | 2.60 | 0.17 | 0.34 | Direct HDL Immunoseparation |
| | mg/dl | 87.2 | 74.1 | 100 | 6.55 | 13.10 | |
| | mmol/l | 2.60 | 2.21 | 2.99 | 0.20 | 0.39 | HDL - Ultra |
| | mg/dl | 100 | 85.3 | 115 | 7.35 | 14.70 | |
| Iron | µmol/l | 40.4 | 33.1 | 47.7 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 226 | 185 | 267 | 20.50 | 41.00 | |
| LD (LDH) | U/l | 739 | 629 | 849 | 55.00 | 110.00 | P->L German methods 37°C |
| | U/l | 534 | 454 | 614 | 40.00 | 80.00 | P->L German methods 30°C |
| | U/l | 375 | 319 | 431 | 28.00 | 56.00 | P->L German methods 25°C |
| | U/l | 761 | 647 | 875 | 57.00 | 114.00 | P->L SFBC 37°C |
| | U/l | 549 | 467 | 631 | 41.00 | 82.00 | P->L SFBC 30°C |
| | U/l | 386 | 328 | 444 | 29.00 | 58.00 | P->L SFBC 25°C |
| Lipase | U/l | 73 | 58 | 88 | 7.50 | 15.00 | Other Colorimetric 37°C |
| Magnesium | mmol/l | 1.79 | 1.57 | 2.01 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.35 | 3.82 | 4.88 | 0.27 | 0.53 | |
| | mmol/l | 1.79 | 1.57 | 2.01 | 0.11 | 0.22 | Enzymatic |
| | mg/dl | 4.35 | 3.82 | 4.88 | 0.27 | 0.53 | |
| Phosphate Inorganic | mmol/l | 2.20 | 1.87 | 2.53 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.82 | 5.80 | 7.84 | 0.51 | 1.02 | |
| Potassium | mmol/l | 6.25 | 5.75 | 6.75 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 47.4 | 38.0 | 56.8 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.74 | 3.80 | 5.68 | 0.47 | 0.94 | |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Triglycerides | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |

**ILab 600®/650®/Aries/Taurus**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Triglycerides | mmol/l | 2.96 | 2.49 | 3.43 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 262 | 220 | 304 | 21.00 | 42.00 | |
| Urea | mmol/l | 21.1 | 18.0 | 24.2 | 1.55 | 3.10 | Urease end point |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| | mmol/l | 21.1 | 17.9 | 24.3 | 1.60 | 3.20 | Urease kinetic |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| | mmol/l | 21.1 | 17.9 | 24.3 | 1.60 | 3.20 | BUN |
| | mg/dl | 59.2 | 50.3 | 68.1 | 4.45 | 8.90 | |
| Uric Acid (Urate) | mmol/l | 0.51 | 0.44 | 0.57 | 0.03 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 8.53 | 7.43 | 9.63 | 0.55 | 1.10 | |


JOHNSON AND JOHNSON VITROS®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------------|--------|--------|------|------|--------|---------|--|
| Albumin | g/l | 28.2 | 24.0 | 32.4 | 2.10 | 4.20 | Ortho Vitros Microslide Systems |
| | g/dl | 2.82 | 2.40 | 3.24 | 0.21 | 0.42 | |
| Alkaline Phosphatase | U/l | 225 | 191 | 259 | 17.00 | 34.00 | Ortho Vitros Microslide Systems 37°C |
| ALT (GPT) | U/l | 163 | 130 | 196 | 16.50 | 33.00 | Ortho Vitros Microslide Systems 37°C |
| Amylase Total | U/l | 173 | 147 | 199 | 13.00 | 26.00 | Ortho Vitros Microslide Systems 37°C |
| AST (GOT) | U/l | 190 | 152 | 228 | 19.00 | 38.00 | Ortho Vitros Microslide visible slide 37°C |
| Bicarbonate | mmol/l | 18.4 | 14.6 | 22.2 | 1.90 | 3.80 | Ortho Vitros Microslide Systems |
| Bilirubin Total | µmol/l | 80.1 | 63.2 | 97.0 | 8.45 | 16.90 | Vitros 250/500/700/950 Total Bilirubin |
| | mg/dl | 4.69 | 3.70 | 5.68 | 0.50 | 0.99 | |
| | µmol/l | 80.6 | 63.7 | 97.5 | 8.45 | 16.90 | Vitros 250/500/700/950 Total BUBC |
| | mg/dl | 4.72 | 3.73 | 5.71 | 0.50 | 0.99 | |
| Bilirubin, Unconjugated Vitros BU | µmol/l | 75.5 | 59.6 | 91.4 | 7.95 | 15.90 | BuBc Vitros Slide |
| | mg/dl | 4.42 | 3.49 | 5.35 | 0.47 | 0.93 | |
| Calcium | mmol/l | 3.14 | 2.83 | 3.45 | 0.16 | 0.31 | Ortho Vitros Microslide Systems |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | Ortho Vitros Microslide Systems |
| Cholesterol | mmol/l | 7.16 | 6.23 | 8.09 | 0.47 | 0.93 | Ortho Vitros Microslide Systems |
| | mg/dl | 276 | 240 | 312 | 18.00 | 36.00 | |
| Cholinesterase | U/l | 5337 | 4269 | 6405 | 534.00 | 1068.00 | Ortho Vitros Microslide Systems 37°C |
| CK Total | U/l | 419 | 344 | 494 | 37.50 | 75.00 | Ortho Vitros Microslide Systems 37°C |
| Creatinine | µmol/l | 387 | 310 | 464 | 38.50 | 77.00 | Vitros IDMS Traceable |
| | mg/dl | 4.37 | 3.50 | 5.24 | 0.44 | 0.87 | |


JOHNSON AND JOHNSON VITROS®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|--------|--|
| Free T4 | pmol/l | 89.7 | 67.3 | 112 | 11.20 | 22.40 | Vitros ECi |
| | ng/dl | 7.00 | 5.25 | 8.75 | 0.88 | 1.75 | |
| | pg/ml | 70.0 | 52.5 | 87.5 | 8.75 | 17.50 | Vitros ECi |
| gamma-GT | U/l | 212 | 180 | 244 | 16.00 | 32.00 | Ortho Vitros Microslide Systems 37°C |
| Glucose | mmol/l | 14.2 | 12.1 | 16.3 | 1.05 | 2.10 | Ortho Vitros Microslide Systems |
| | mg/dl | 256 | 218 | 294 | 19.00 | 38.00 | |
| HDL - Cholesterol | mmol/l | 2.58 | 2.20 | 2.96 | 0.19 | 0.38 | Vitros Magnetic HDL |
| | mg/dl | 99.6 | 84.9 | 114 | 7.35 | 14.70 | |
| | mmol/l | 2.58 | 2.20 | 2.96 | 0.19 | 0.38 | Vitros 5.1 FS microtip assay |
| | mg/dl | 99.6 | 84.9 | 114 | 7.35 | 14.70 | |
| Iron | mmol/l | 2.59 | 2.20 | 2.98 | 0.20 | 0.39 | Vitros dHDL PTA/MgCl ₂ direct precipitation |
| | mg/dl | 100 | 84.9 | 115 | 7.55 | 15.10 | |
| Iron | µmol/l | 44.2 | 36.3 | 52.1 | 3.95 | 7.90 | Ortho Vitros Microslide Systems |
| | µg/dl | 247 | 203 | 291 | 22.00 | 44.00 | |
| Lactate | mmol/l | 4.69 | 3.84 | 5.54 | 0.43 | 0.85 | Ortho Vitros Microslide Systems |
| | mg/dl | 42.3 | 34.6 | 50.0 | 3.85 | 7.70 | |
| LD (LDH) | U/l | 987 | 839 | 1135 | 74.00 | 148.00 | Ortho Vitros Microslide Systems 37°C |
| Lipase | U/l | 694 | 557 | 831 | 68.50 | 137.00 | Ortho Vitros Microslide Systems 37°C |
| Lithium | mmol/l | 2.39 | 2.10 | 2.68 | 0.15 | 0.29 | Ortho Vitros Microslide Systems |
| | mg/dl | 1.66 | 1.46 | 1.86 | 0.10 | 0.20 | |
| Magnesium | mmol/l | 1.83 | 1.61 | 2.05 | 0.11 | 0.22 | Ortho Vitros Microslide Systems |
| | mg/dl | 4.45 | 3.91 | 4.99 | 0.27 | 0.54 | |
| Phosphate Inorganic | mmol/l | 2.22 | 1.88 | 2.56 | 0.17 | 0.34 | Ortho Vitros Microslide Systems |
| | mg/dl | 6.88 | 5.83 | 7.93 | 0.53 | 1.05 | |


JOHNSON AND JOHNSON VITROS®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|-----------------------------|---------|--------|------|------|-------|--------|-----------------------------------|-----|
| Potassium | mmol/l | 6.19 | 5.70 | 6.68 | 0.25 | 0.49 | Ortho Vitros Microslide Systems | |
| Protein Total | g/l | 47.4 | 37.9 | 56.9 | 4.75 | 9.50 | Ortho Vitros Microslide Systems | |
| | g/dl | 4.74 | 3.79 | 5.69 | 0.48 | 0.95 | | |
| PSA Total | ng/ml = | 25.5 | 19.1 | 31.9 | 3.20 | 6.40 | Ortho Vitros ECi | |
| | ng/ml = | 25.7 | 19.3 | 32.1 | 3.20 | 6.40 | Ortho Vitros 3600/5600/ECi PSA II | |
| Sodium | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | Ortho Vitros Microslide Systems | |
| Thyroid Stimulating Hormone | µU/ml = | 1.26 | 1.01 | 1.51 | 0.13 | 0.25 | Vitros ECi | |
| Total T3 | nmol/l | 6.44 | 4.83 | 8.05 | 0.81 | 1.61 | Vitros ECi | |
| | ng/ml | 4.19 | 3.14 | 5.24 | 0.53 | 1.05 | | |
| | ng/dl | 419 | 314 | 524 | 52.50 | 105.00 | | |
| Total T4 | nmol/l | 223 | 167 | 279 | 28.00 | 56.00 | Vitros ECi | |
| | µg/dl | 17.4 | 13.0 | 21.8 | 2.20 | 4.40 | | |
| | ng/ml | 174 | 130 | 218 | 22.00 | 44.00 | | |
| Triglycerides | mmol/l | 3.22 | 2.71 | 3.73 | 0.26 | 0.51 | Ortho Vitros Microslide Systems | |
| | mg/dl | 285 | 240 | 330 | 22.50 | 45.00 | | |
| Urea | mmol/l | 19.2 | 16.3 | 22.1 | 1.45 | 2.90 | Ortho Vitros Microslide Systems | |
| | mg/dl | 115 | 98.0 | 132 | 8.50 | 17.00 | | |
| | mmol/l | 19.2 | 16.3 | 22.1 | 1.45 | 2.90 | | BUN |
| | mg/dl | 53.9 | 45.8 | 62.0 | 4.05 | 8.10 | | |
| Uric Acid (Urate) | mmol/l | 0.51 | 0.45 | 0.58 | 0.03 | 0.07 | Ortho Vitros Microslide Systems | |
| | mg/dl | 8.62 | 7.49 | 9.75 | 0.57 | 1.13 | | |

Konelab 20/30/60®/Thermo Scientific Indiko Plus ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|------------------------------|
| Albumin | g/l | 29.7 | 25.3 | 34.1 | 2.20 | 4.40 | Bromocresol Green |
| | g/dl | 2.97 | 2.53 | 3.41 | 0.22 | 0.44 | |
| Alkaline Phosphatase | U/l | 296 | 251 | 341 | 22.50 | 45.00 | AMP optimised to IFCC 37°C |
| | U/l | 231 | 196 | 266 | 17.50 | 35.00 | AMP optimised to IFCC 30°C |
| | U/l | 189 | 160 | 218 | 14.50 | 29.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 158 | 126 | 190 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 117 | 93 | 141 | 12.00 | 24.00 | Tris buffer without P5P 30°C |
| | U/l | 89 | 71 | 107 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 158 | 127 | 189 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| | U/l | 107 | 86 | 128 | 10.50 | 21.00 | Tris buffer without P5P 30°C |
| | U/l | 75 | 60 | 90 | 7.50 | 15.00 | Tris buffer without P5P 25°C |
| Bilirubin Total | µmol/l | 81.2 | 64.2 | 98.2 | 8.50 | 17.00 | Nitrobenzenediazonium salt |
| | mg/dl | 4.75 | 3.76 | 5.74 | 0.50 | 0.99 | |
| Calcium | mmol/l | 3.25 | 2.92 | 3.58 | 0.17 | 0.33 | Arsenazo III |
| | mg/dl | 13.0 | 11.7 | 14.3 | 0.65 | 1.30 | |
| Chloride | mmol/l | 111 | 102 | 120 | 4.50 | 9.00 | Colorimetric |
| | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | ISE direct |
| Cholesterol | mmol/l | 7.51 | 6.54 | 8.48 | 0.49 | 0.97 | Cholesterol Oxidase |
| | mg/dl | 290 | 252 | 328 | 19.00 | 38.00 | |
| CK Total | U/l | 510 | 419 | 601 | 45.50 | 91.00 | CK-NAC (IFCC) 37°C |
| | U/l | 319 | 262 | 376 | 28.50 | 57.00 | CK-NAC (IFCC) 30°C |
| | U/l | 217 | 178 | 256 | 19.50 | 39.00 | CK-NAC (IFCC) 25°C |

Konelab 20/30/60®/Thermo Scientific Indiko Plus ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|--------|---|
| Creatinine | µmol/l | 391 | 313 | 469 | 39.00 | 78.00 | Enzymatic UV method |
| | mg/dl | 4.42 | 3.54 | 5.30 | 0.44 | 0.88 | |
| | µmol/l | 375 | 300 | 450 | 37.50 | 75.00 | Jaffe rate blanked |
| | mg/dl | 4.24 | 3.39 | 5.09 | 0.43 | 0.85 | |
| | µmol/l | 377 | 302 | 452 | 37.50 | 75.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.26 | 3.41 | 5.11 | 0.43 | 0.85 | |
| gamma-GT | U/l | 175 | 148 | 202 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 138 | 117 | 159 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 108 | 91 | 125 | 8.50 | 17.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 16.3 | 13.9 | 18.7 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 294 | 250 | 338 | 22.00 | 44.00 | |
| | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 3.21 | 2.73 | 3.69 | 0.24 | 0.48 | Direct HDL PPD |
| | mg/dl | 124 | 105 | 143 | 9.50 | 19.00 | |
| | mmol/l | 3.29 | 2.79 | 3.79 | 0.25 | 0.50 | Direct HDL PEGME |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| Iron | µmol/l | 41.0 | 33.7 | 48.3 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 229 | 188 | 270 | 20.50 | 41.00 | |
| LD (LDH) | U/l | 784 | 667 | 901 | 58.50 | 117.00 | P->L Scandinavian & Dutch 37°C |
| | U/l | 566 | 482 | 650 | 42.00 | 84.00 | P->L Scandinavian & Dutch 30°C |
| | U/l | 397 | 338 | 456 | 29.50 | 59.00 | P->L Scandinavian & Dutch 25°C |
| | U/l | 728 | 618 | 838 | 55.00 | 110.00 | P->L SFBC 37°C |
| | U/l | 526 | 446 | 606 | 40.00 | 80.00 | P->L SFBC 30°C |
| | U/l | 369 | 313 | 425 | 28.00 | 56.00 | P->L SFBC 25°C |

Konelab 20/30/60®/Thermo Scientific Indiko Plus ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| LD (LDH) | U/l | 369 | 314 | 424 | 27.50 | 55.00 | L->P IFCC 37°C |
| | U/l | 266 | 227 | 305 | 19.50 | 39.00 | L->P IFCC 30°C |
| | U/l | 187 | 159 | 215 | 14.00 | 28.00 | L->P IFCC 25°C |
| Phosphate Inorganic | mmol/l | 2.25 | 1.91 | 2.59 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 6.98 | 5.92 | 8.04 | 0.53 | 1.06 | |
| Potassium | mmol/l | 6.01 | 5.53 | 6.49 | 0.24 | 0.48 | ISE method - direct |
| Protein Total | g/l | 47.9 | 38.3 | 57.5 | 4.80 | 9.60 | Biuret reaction end point |
| | g/dl | 4.79 | 3.83 | 5.75 | 0.48 | 0.96 | |
| Sodium | mmol/l | 156 | 148 | 164 | 4.00 | 8.00 | ISE method - direct |
| Triglycerides | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |
| Urea | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | Urease end point |
| | mg/dl | 119 | 101 | 137 | 9.00 | 18.00 | |
| | mmol/l | 19.6 | 16.7 | 22.5 | 1.45 | 2.90 | Urease kinetic |
| | mg/dl | 118 | 100 | 136 | 9.00 | 18.00 | |
| | mmol/l | 19.6 | 16.7 | 22.5 | 1.45 | 2.90 | BUN |
| | mg/dl | 55.0 | 46.8 | 63.2 | 4.10 | 8.20 | |
| Uric Acid (Urate) | mmol/l | 0.57 | 0.50 | 0.65 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.61 | 8.37 | 10.9 | 0.62 | 1.24 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | |
| | mmol/l | 0.57 | 0.50 | 0.64 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.56 | 8.32 | 10.8 | 0.62 | 1.24 | |

**MEAN OF ALL INSTRUMENTS (Elec.)**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------------|------|--------|------|------|------|------|--|
| Albumin (electrophoresis) | | 61.1 | 55.1 | 67.1 | 3.00 | 6.00 | % of total Protein (Beckman Capillary) |
| alpha-1-globulin | | 6.9 | 5.2 | 8.6 | 0.83 | 1.66 | % of total Protein (Beckman Capillary) |
| alpha-2-globulin | | 7.5 | 5.7 | 9.3 | 0.90 | 1.80 | % of total Protein (Beckman Capillary) |
| beta-globulin | | 12.0 | 9.1 | 14.9 | 1.44 | 2.88 | % of total Protein (Beckman Capillary) |
| gamma-globulin | | 12.5 | 9.5 | 15.5 | 1.50 | 3.00 | % of total Protein (Beckman Capillary) |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|--------------------------|------|--------|------|-------|-------|-------------------------------|---|
| alpha-HBDH | U/l | 407 | 322 | 492 | 42.50 | 85.00 | Oxobutyrate < 10 mmol/l 37°C |
| | U/l | 307 | 243 | 371 | 32.00 | 64.00 | Oxobutyrate < 10 mmol/l 30°C |
| | U/l | 230 | 182 | 278 | 24.00 | 48.00 | Oxobutyrate < 10 mmol/l 25°C |
| Acid Phosphatase (Total) | U/l | 27.7 | 18.6 | 36.8 | 4.55 | 9.10 | 1-Naphthyl Phosphate substrate Kinetic 37°C |
| Albumin | g/l | 29.8 | 25.3 | 34.3 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 2.98 | 2.53 | 3.43 | 0.23 | 0.45 | |
| | g/l | 28.0 | 23.8 | 32.2 | 2.10 | 4.20 | Bromocresol Purple |
| | g/dl | 2.80 | 2.38 | 3.22 | 0.21 | 0.42 | |
| | g/l | 28.2 | 24.0 | 32.4 | 2.10 | 4.20 | Ortho Vitros Microslide Systems |
| | g/dl | 2.82 | 2.40 | 3.24 | 0.21 | 0.42 | |
| | g/l | 28.8 | 24.5 | 33.1 | 2.15 | 4.30 | Turbidimetric Assays |
| g/dl | 2.88 | 2.45 | 3.31 | 0.22 | 0.43 | | |
| Alkaline Phosphatase | U/l | 225 | 191 | 259 | 17.00 | 34.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 401 | 341 | 461 | 30.00 | 60.00 | Diethanolamine buffer DEA 37°C |
| | U/l | 312 | 266 | 358 | 23.00 | 46.00 | Diethanolamine buffer DEA 30°C |
| | U/l | 256 | 218 | 294 | 19.00 | 38.00 | Diethanolamine buffer DEA 25°C |
| | U/l | 314 | 267 | 361 | 23.50 | 47.00 | AMP optimised to IFCC 37°C |
| | U/l | 245 | 208 | 282 | 18.50 | 37.00 | AMP optimised to IFCC 30°C |
| | U/l | 201 | 171 | 231 | 15.00 | 30.00 | AMP optimised to IFCC 25°C |
| | U/l | 317 | 269 | 365 | 24.00 | 48.00 | AMP reduced interference 37°C |
| | U/l | 247 | 210 | 284 | 18.50 | 37.00 | AMP reduced interference 30°C |
| U/l | 203 | 172 | 234 | 15.50 | 31.00 | AMP reduced interference 25°C | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|------|--------|-----|------|-------|----------------------|--------------------------------------|
| Alkaline Phosphatase | U/l | 310 | 263 | 357 | 23.50 | 47.00 | AMP non-optimised 37°C |
| | U/l | 241 | 205 | 277 | 18.00 | 36.00 | AMP non-optimised 30°C |
| | U/l | 198 | 168 | 228 | 15.00 | 30.00 | AMP non-optimised 25°C |
| ALT (GPT) | U/l | 147 | 118 | 176 | 14.50 | 29.00 | Colorimetric 37°C |
| | U/l | 109 | 87 | 131 | 11.00 | 22.00 | Colorimetric 30°C |
| | U/l | 83 | 66 | 100 | 8.50 | 17.00 | Colorimetric 25°C |
| | U/l | 163 | 130 | 196 | 16.50 | 33.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 191 | 153 | 229 | 19.00 | 38.00 | Tris buffer with P5P 37°C |
| | U/l | 141 | 113 | 169 | 14.00 | 28.00 | Tris buffer with P5P 30°C |
| | U/l | 108 | 86 | 130 | 11.00 | 22.00 | Tris buffer with P5P 25°C |
| | U/l | 153 | 122 | 184 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| | U/l | 113 | 90 | 136 | 11.50 | 23.00 | Tris buffer without P5P 30°C |
| | U/l | 86 | 69 | 103 | 8.50 | 17.00 | Tris buffer without P5P 25°C |
| | U/l | 147 | 117 | 177 | 15.00 | 30.00 | Phosphate buffer DGKC 37°C |
| | U/l | 109 | 87 | 131 | 11.00 | 22.00 | Phosphate buffer DGKC 30°C |
| | U/l | 83 | 66 | 100 | 8.50 | 17.00 | Phosphate buffer DGKC 25°C |
| | U/l | 146 | 117 | 175 | 14.50 | 29.00 | Tris buffer SCE 37°C |
| | U/l | 108 | 87 | 129 | 10.50 | 21.00 | Tris buffer SCE 30°C |
| U/l | 82 | 66 | 98 | 8.00 | 16.00 | Tris buffer SCE 25°C | |
| Amylase Pancreatic | U/l | 251 | 213 | 289 | 19.00 | 38.00 | Immunoinhibition EPS substrate 37°C |
| | U/l | 247 | 210 | 284 | 18.50 | 37.00 | Roche EPS Liquid 37°C |
| | U/l | 287 | 244 | 330 | 21.50 | 43.00 | Randox Liquid Ethylidene pNPG7 37°C |
| Amylase Total | U/l | 291 | 247 | 335 | 22.00 | 44.00 | pNP Maltotriose substrates 37°C |
| | U/l | 281 | 239 | 323 | 21.00 | 42.00 | Siemens - blocked pNPG7 37°C |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|--------------------|-------|--------|------|-------|-------|----------------------------------|--|
| Amylase Total | U/l | 275 | 234 | 316 | 20.50 | 41.00 | bioMerieux - blocked pNPG7 37°C |
| | U/l | 226 | 192 | 260 | 17.00 | 34.00 | Randox Lyo. Ethylidene pNPG7 37°C |
| | U/l | 296 | 252 | 340 | 22.00 | 44.00 | Randox Liquid Ethylidene pNPG7 37°C |
| | U/l | 293 | 249 | 337 | 22.00 | 44.00 | Beckman Synchron CX4/CX5/CX7 37°C |
| | U/l | 303 | 257 | 349 | 23.00 | 46.00 | Siemens - maltopenta/hexaoside 37°C |
| | U/l | 279 | 237 | 321 | 21.00 | 42.00 | Siemens 2-chloro-pNP linked substrate 37°C |
| | U/l | 273 | 232 | 314 | 20.50 | 41.00 | Roche Integra 2-chloro-pNPG7 37°C |
| | U/l | 173 | 147 | 199 | 13.00 | 26.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 269 | 229 | 309 | 20.00 | 40.00 | Other Roche 2-chloro-pNPG7 37°C |
| | U/l | 269 | 228 | 310 | 20.50 | 41.00 | Roche liquid stable pNPG7 37°C |
| | U/l | 338 | 287 | 389 | 25.50 | 51.00 | Siemens 2-chloro-pNPG3 37°C |
| | U/l | 288 | 245 | 331 | 21.50 | 43.00 | bioMerieux 2-chloro-pNPG3 37°C |
| | U/l | 285 | 242 | 328 | 21.50 | 43.00 | Beckman Coulter - blocked pNPG7 37°C |
| | U/l | 289 | 246 | 332 | 21.50 | 43.00 | Beckman Synchron AMY7 37°C |
| | U/l | 297 | 253 | 341 | 22.00 | 44.00 | Agappe - CNPG3 37°C |
| | U/l | 301 | 256 | 346 | 22.50 | 45.00 | I.L. 2-chloro-pNPG3 37°C |
| | U/l | 333 | 283 | 383 | 25.00 | 50.00 | Abbott Architect IFCC Cal. 37°C |
| | U/l | 315 | 267 | 363 | 24.00 | 48.00 | Abbott Architect Non-IFCC Cal. 37°C |
| U/l | 260 | 221 | 299 | 19.50 | 39.00 | BM/Roche Colorimetric pNPG7 37°C | |
| Apolipoprotein A-1 | g/l | 1.05 | 0.86 | 1.24 | 0.09 | 0.19 | Immunoturbidimetric |
| | mg/dl | 105 | 86.1 | 124 | 9.45 | 18.90 | |
| Apolipoprotein B | g/l | 0.58 | 0.47 | 0.68 | 0.05 | 0.10 | Immunoturbidimetric |
| | mg/dl | 57.7 | 47.3 | 68.1 | 5.20 | 10.40 | |
| AST (GOT) | U/l | 142 | 114 | 170 | 14.00 | 28.00 | Colorimetric 37°C |
| | U/l | 96 | 77 | 115 | 9.50 | 19.00 | Colorimetric 30°C |
| | U/l | 68 | 54 | 82 | 7.00 | 14.00 | Colorimetric 25°C |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|-------|----------------------|--|
| AST (GOT) | U/l | 190 | 152 | 228 | 19.00 | 38.00 | Ortho Vitros Microslide visible slide 37°C |
| | U/l | 220 | 176 | 264 | 22.00 | 44.00 | Tris buffer with P5P 37°C |
| | U/l | 149 | 119 | 179 | 15.00 | 30.00 | Tris buffer with P5P 30°C |
| | U/l | 105 | 84 | 126 | 10.50 | 21.00 | Tris buffer with P5P 25°C |
| | U/l | 148 | 118 | 178 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 100 | 80 | 120 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 70 | 56 | 84 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| | U/l | 145 | 116 | 174 | 14.50 | 29.00 | Phosphate buffer DGKC 37°C |
| | U/l | 98 | 78 | 118 | 10.00 | 20.00 | Phosphate buffer DGKC 30°C |
| | U/l | 69 | 55 | 83 | 7.00 | 14.00 | Phosphate buffer DGKC 25°C |
| | U/l | 141 | 113 | 169 | 14.00 | 28.00 | Tris buffer SCE 37°C |
| | U/l | 95 | 76 | 114 | 9.50 | 19.00 | Tris buffer SCE 30°C |
| U/l | 67 | 54 | 80 | 6.50 | 13.00 | Tris buffer SCE 25°C | |
| Bicarbonate | mmol/l | 17.3 | 13.7 | 20.9 | 1.80 | 3.60 | Colorimetric |
| | mmol/l | 18.4 | 14.6 | 22.2 | 1.90 | 3.80 | Ortho Vitros Microslide Systems |
| | mmol/l | 17.7 | 14.0 | 21.4 | 1.85 | 3.70 | Differential rate pH change |
| | mmol/l | 17.7 | 14.1 | 21.3 | 1.80 | 3.60 | Enzymatic |
| | mmol/l | 17.4 | 13.8 | 21.0 | 1.80 | 3.60 | Ion selective electrode |
| Bile Acids | µmol/l | 49.2 | 39.4 | 59.0 | 4.90 | 9.80 | 4th Generation Colorimetric |
| | µmol/l | 47.9 | 38.3 | 57.5 | 4.80 | 9.60 | 5th Generation Colorimetric |
| Bilirubin Direct | µmol/l | 25.9 | 20.4 | 31.4 | 2.75 | 5.50 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.52 | 1.19 | 1.85 | 0.17 | 0.33 | |
| | µmol/l | 31.0 | 24.5 | 37.5 | 3.25 | 6.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.81 | 1.43 | 2.19 | 0.19 | 0.38 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|-------|----------------------------------|--|
| Bilirubin Direct | µmol/l | 28.5 | 22.5 | 34.5 | 3.00 | 6.00 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.67 | 1.32 | 2.02 | 0.18 | 0.35 | |
| | µmol/l | 30.1 | 23.8 | 36.4 | 3.15 | 6.30 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 1.76 | 1.39 | 2.13 | 0.19 | 0.37 | |
| | µmol/l | 31.4 | 24.8 | 38.0 | 3.30 | 6.60 | Modified Jendrassik |
| | mg/dl | 1.84 | 1.45 | 2.23 | 0.20 | 0.39 | |
| Bilirubin Total | µmol/l | 80.1 | 63.2 | 97.0 | 8.45 | 16.90 | Vitros 250/500/700/950 Total Bilirubin |
| | mg/dl | 4.69 | 3.70 | 5.68 | 0.50 | 0.99 | |
| | µmol/l | 80.6 | 63.7 | 97.5 | 8.45 | 16.90 | Vitros 250/500/700/950 Total BUBC |
| | mg/dl | 4.72 | 3.73 | 5.71 | 0.50 | 0.99 | |
| | µmol/l | 96.6 | 76.3 | 117 | 10.15 | 20.30 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 5.65 | 4.46 | 6.84 | 0.60 | 1.19 | |
| | µmol/l | 86.0 | 67.9 | 104 | 9.05 | 18.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.03 | 3.97 | 6.09 | 0.53 | 1.06 | |
| | µmol/l | 93.3 | 73.7 | 113 | 9.80 | 19.60 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 5.46 | 4.31 | 6.61 | 0.58 | 1.15 | |
| | µmol/l | 82.1 | 64.8 | 99.4 | 8.65 | 17.30 | Nitrobenzenediazonium salt |
| | mg/dl | 4.80 | 3.79 | 5.81 | 0.51 | 1.01 | |
| | µmol/l | 80.4 | 63.5 | 97.3 | 8.45 | 16.90 | Diazonium ion |
| | mg/dl | 4.70 | 3.71 | 5.69 | 0.50 | 0.99 | |
| µmol/l | 91.4 | 72.2 | 111 | 9.60 | 19.20 | Oxidation to Biliverdin/Vanadate | |
| mg/dl | 5.35 | 4.22 | 6.48 | 0.57 | 1.13 | | |
| | µmol/l | 98.8 | 78.1 | 120 | 10.35 | 20.70 | Modified Jendrassik |
| | mg/dl | 5.78 | 4.57 | 6.99 | 0.61 | 1.21 | |
| Calcium | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|----------------|-------------|--------|------|------|--------|---------|--------------------------------------|---------------------------------|
| Calcium | mmol/l | 3.14 | 2.83 | 3.45 | 0.16 | 0.31 | Ortho Vitros Microslide Systems | |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | | |
| | mmol/l | 3.07 | 2.76 | 3.38 | 0.16 | 0.31 | Ion selective electrode | |
| | mg/dl | 12.3 | 11.1 | 13.5 | 0.60 | 1.20 | | |
| | mmol/l | 3.05 | 2.75 | 3.35 | 0.15 | 0.30 | Methylthymol blue | |
| | mg/dl | 12.2 | 11.0 | 13.4 | 0.60 | 1.20 | | |
| | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Arsenazo III | |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | | |
| Chloride | mmol/l | 112 | 103 | 121 | 4.50 | 9.00 | Colorimetric | |
| | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | Ortho Vitros Microslide Systems | |
| | mmol/l | 114 | 104 | 124 | 5.00 | 10.00 | ISE indirect | |
| | mmol/l | 114 | 105 | 123 | 4.50 | 9.00 | ISE direct | |
| | Cholesterol | mmol/l | 7.16 | 6.23 | 8.09 | 0.47 | 0.93 | Ortho Vitros Microslide Systems |
| | | mg/dl | 276 | 240 | 312 | 18.00 | 36.00 | |
| mmol/l | | 7.59 | 6.61 | 8.57 | 0.49 | 0.98 | Cholesterol Oxidase | |
| mg/dl | | 293 | 255 | 331 | 19.00 | 38.00 | | |
| Cholinesterase | U/l | 5348 | 4279 | 6417 | 534.50 | 1069.00 | Colorimetric Butyrylthiocholine 37°C | |
| | U/l | 419 | 344 | 494 | 37.50 | 75.00 | Ortho Vitros Microslide Systems 37°C | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|-------|--------|---|---|
| CK Total | U/l | 498 | 408 | 588 | 45.00 | 90.00 | CK-NAC serum start (DGKC) 37°C |
| | U/l | 312 | 255 | 369 | 28.50 | 57.00 | CK-NAC serum start (DGKC) 30°C |
| | U/l | 212 | 173 | 251 | 19.50 | 39.00 | CK-NAC serum start (DGKC) 25°C |
| | U/l | 479 | 392 | 566 | 43.50 | 87.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 300 | 245 | 355 | 27.50 | 55.00 | CK-NAC substrate start (DGKC) 30°C |
| | U/l | 204 | 167 | 241 | 18.50 | 37.00 | CK-NAC substrate start (DGKC) 25°C |
| | U/l | 487 | 400 | 574 | 43.50 | 87.00 | CK-NAC (IFCC) 37°C |
| | U/l | 305 | 250 | 360 | 27.50 | 55.00 | CK-NAC (IFCC) 30°C |
| | U/l | 207 | 170 | 244 | 18.50 | 37.00 | CK-NAC (IFCC) 25°C |
| | U/l | 490 | 402 | 578 | 44.00 | 88.00 | Monothioglycerol 37°C |
| | U/l | 307 | 252 | 362 | 27.50 | 55.00 | Monothioglycerol 30°C |
| | U/l | 208 | 171 | 245 | 18.50 | 37.00 | Monothioglycerol 25°C |
| | U/l | 471 | 387 | 555 | 42.00 | 84.00 | Dithioerythritol (DTE) IFCC correlated 37°C |
| U/l | 295 | 242 | 348 | 26.50 | 53.00 | Dithioerythritol (DTE) IFCC correlated 30°C | |
| U/l | 200 | 164 | 236 | 18.00 | 36.00 | Dithioerythritol (DTE) IFCC correlated 25°C | |
| Copper | µmol/l | 25.1 | 20.1 | 30.1 | 2.50 | 5.00 | Atomic absorption |
| | µg/dl | 160 | 128 | 192 | 16.00 | 32.00 | |
| | µmol/l | 25.7 | 20.6 | 30.8 | 2.55 | 5.10 | Colorimetric |
| | µg/dl | 163 | 131 | 195 | 16.00 | 32.00 | |
| Cortisol | nmol/l | 988 | 741 | 1235 | 123.50 | 247.00 | Roche Cobas E411 |
| | µg/dl | 35.6 | 26.7 | 44.5 | 4.45 | 8.90 | |
| Creatinine | µmol/l | 368 | 294 | 442 | 37.00 | 74.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.16 | 3.32 | 5.00 | 0.42 | 0.84 | |
| | µmol/l | 372 | 298 | 446 | 37.00 | 74.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.20 | 3.37 | 5.03 | 0.42 | 0.83 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|-------|-------|-----------------------|---|
| Creatinine | µmol/l | 386 | 309 | 463 | 38.50 | 77.00 | Enzymatic UV method |
| | mg/dl | 4.36 | 3.49 | 5.23 | 0.44 | 0.87 | |
| | µmol/l | 381 | 305 | 457 | 38.00 | 76.00 | Creatinine PAP method |
| | mg/dl | 4.31 | 3.45 | 5.17 | 0.43 | 0.86 | |
| | µmol/l | 366 | 293 | 439 | 36.50 | 73.00 | Jaffe rate blanked |
| | mg/dl | 4.14 | 3.31 | 4.97 | 0.42 | 0.83 | |
| | µmol/l | 380 | 304 | 456 | 38.00 | 76.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.29 | 3.44 | 5.14 | 0.43 | 0.85 | |
| | µmol/l | 374 | 299 | 449 | 37.50 | 75.00 | Jaffe rate blanked compensated (-18 µmol/l) |
| | mg/dl | 4.23 | 3.38 | 5.08 | 0.43 | 0.85 | |
| µmol/l | 387 | 310 | 464 | 38.50 | 77.00 | Vitros IDMS Traceable | |
| mg/dl | 4.37 | 3.50 | 5.24 | 0.44 | 0.87 | | |
| µmol/l | 385 | 308 | 462 | 38.50 | 77.00 | IDMS traceable | |
| mg/dl | 4.35 | 3.48 | 5.22 | 0.44 | 0.87 | | |
| D-3-Hydroxybutyrate | mmol/l | 1.28 | 1.09 | 1.47 | 0.10 | 0.19 | Tris buffer 100mmol pH 8.5 |
| Digoxin | nmol/l | 3.84 | 3.07 | 4.61 | 0.39 | 0.77 | Gravimetric |
| | ng/ml | 3.00 | 2.40 | 3.60 | 0.30 | 0.60 | |
| Folate | nmol/l | 16.7 | 12.7 | 20.7 | 2.01 | 4.01 | Roche Cobas E411 |
| | ng/ml | 7.37 | 5.60 | 9.14 | 0.89 | 1.77 | |
| Free T4 | pmol/l | 49.8 | 37.3 | 62.3 | 6.25 | 12.50 | Abbott Architect |
| | ng/dl | 3.88 | 2.91 | 4.85 | 0.49 | 0.97 | |
| | pg/ml | 38.8 | 29.1 | 48.5 | 4.85 | 9.70 | Abbott Architect |
| | pmol/l | 68.9 | 51.7 | 86.1 | 8.60 | 17.20 | |
| | ng/dl | 5.37 | 4.03 | 6.71 | 0.67 | 1.34 | Siemens Immulite 2000/2500 |
| | pg/ml | 53.7 | 40.3 | 67.1 | 6.70 | 13.40 | |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------|--------|--------|------|------|-------|-----------------------|-----------------------|
| Free T4 | pmol/l | 70.5 | 52.8 | 88.2 | 8.85 | 17.70 | Siemens Immulite 1000 |
| | ng/dl | 5.50 | 4.12 | 6.88 | 0.69 | 1.38 | |
| | pg/ml | 55.0 | 41.2 | 68.8 | 6.90 | 13.80 | Siemens Immulite 1000 |
| | pmol/l | 62.5 | 46.8 | 78.2 | 7.85 | 15.70 | Beckman Dxl800 |
| | ng/dl | 4.88 | 3.65 | 6.11 | 0.62 | 1.23 | |
| | pg/ml | 48.8 | 36.5 | 61.1 | 6.15 | 12.30 | Beckman Dxl800 |
| | pmol/l | 75.9 | 56.9 | 94.9 | 9.50 | 19.00 | Roche Elecsys |
| | ng/dl | 5.92 | 4.44 | 7.40 | 0.74 | 1.48 | |
| | pg/ml | 59.2 | 44.4 | 74.0 | 7.40 | 14.80 | Roche Elecsys |
| | pmol/l | 80.8 | 60.6 | 101 | 10.10 | 20.20 | Diasorin Liaison |
| | ng/dl | 6.30 | 4.73 | 7.87 | 0.79 | 1.57 | |
| | pg/ml | 63.0 | 47.3 | 78.7 | 7.85 | 15.70 | Diasorin Liaison |
| | pmol/l | 61.3 | 46.0 | 76.6 | 7.65 | 15.30 | Beckman Access |
| | ng/dl | 4.78 | 3.59 | 5.97 | 0.60 | 1.19 | |
| | pg/ml | 47.8 | 35.9 | 59.7 | 5.95 | 11.90 | Beckman Access |
| | pmol/l | 77.0 | 57.7 | 96.3 | 9.65 | 19.30 | Tosoh Series |
| | ng/dl | 6.01 | 4.50 | 7.52 | 0.76 | 1.51 | |
| | pg/ml | 60.1 | 45.0 | 75.2 | 7.55 | 15.10 | Tosoh Series |
| | pmol/l | 89.7 | 67.3 | 112 | 11.20 | 22.40 | Vitros ECi |
| | ng/dl | 7.00 | 5.25 | 8.75 | 0.88 | 1.75 | |
| | pg/ml | 70.0 | 52.5 | 87.5 | 8.75 | 17.50 | Vitros ECi |
| | pmol/l | 74.7 | 56.0 | 93.4 | 9.35 | 18.70 | Roche Cobas E411 |
| | ng/dl | 5.83 | 4.37 | 7.29 | 0.73 | 1.46 | |
| | pg/ml | 58.3 | 43.7 | 72.9 | 7.30 | 14.60 | Roche Cobas E411 |
| pmol/l | 74.6 | 55.9 | 93.3 | 9.35 | 18.70 | Roche Cobas 6000/8000 | |
| ng/dl | 5.82 | 4.36 | 7.28 | 0.73 | 1.46 | | |
| pg/ml | 58.2 | 43.6 | 72.8 | 7.30 | 14.60 | Roche Cobas 6000/8000 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|------|-------|-------|--|
| Free T4 | pmol/l | 68.1 | 51.1 | 85.1 | 8.50 | 17.00 | Biomerieux Vidas FT4N Kit |
| | ng/dl | 5.31 | 3.99 | 6.63 | 0.66 | 1.32 | |
| | pg/ml | 53.1 | 39.9 | 66.3 | 6.60 | 13.20 | Biomerieux Vidas FT4N Kit |
| | pmol/l | 71.1 | 53.3 | 88.9 | 8.90 | 17.80 | Siemens Centaur CP |
| | ng/dl | 5.55 | 4.16 | 6.94 | 0.70 | 1.39 | |
| | pg/ml | 55.5 | 41.6 | 69.4 | 6.95 | 13.90 | Siemens Centaur CP |
| Gentamicin | µmol/l | 19.0 | 15.2 | 22.8 | 1.90 | 3.80 | Gravimetric |
| | µg/ml | 9.08 | 7.27 | 10.9 | 0.91 | 1.81 | |
| gamma-GT | U/l | 166 | 141 | 191 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 131 | 111 | 151 | 10.00 | 20.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 102 | 87 | 117 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 212 | 180 | 244 | 16.00 | 32.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 152 | 129 | 175 | 11.50 | 23.00 | Gamma glutamyl-4-nitroanilide 37°C |
| | U/l | 120 | 102 | 138 | 9.00 | 18.00 | Gamma glutamyl-4-nitroanilide 30°C |
| | U/l | 94 | 80 | 108 | 7.00 | 14.00 | Gamma glutamyl-4-nitroanilide 25°C |
| | U/l | 174 | 148 | 200 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 137 | 117 | 157 | 10.00 | 20.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 107 | 91 | 123 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| | U/l | 183 | 156 | 210 | 13.50 | 27.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 144 | 123 | 165 | 10.50 | 21.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 113 | 96 | 130 | 8.50 | 17.00 | Randox Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| GLDH | U/l | 28 | 22 | 34 | 3.00 | 6.00 | Triethanolamine buffer 50 mmol 37°C |
| | U/l | 22 | 17 | 27 | 2.50 | 5.00 | Triethanolamine buffer 50 mmol 30°C |
| | U/l | 17 | 14 | 20 | 1.50 | 3.00 | Triethanolamine buffer 50 mmol 25°C |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|---------|-------------------|--------|------|------|-------|-------|--|----------------|
| Glucose | mmol/l | 14.2 | 12.1 | 16.3 | 1.05 | 2.10 | Ortho Vitros Microslide Systems | |
| | mg/dl | 256 | 218 | 294 | 19.00 | 38.00 | | |
| | mmol/l | 15.7 | 13.4 | 18.0 | 1.15 | 2.30 | Glucose dehydrogenase | |
| | mg/dl | 283 | 241 | 325 | 21.00 | 42.00 | | |
| | mmol/l | 15.6 | 13.2 | 18.0 | 1.20 | 2.40 | Hexokinase | |
| | mg/dl | 281 | 238 | 324 | 21.50 | 43.00 | | |
| | mmol/l | 15.2 | 12.9 | 17.5 | 1.15 | 2.30 | Oxygen electrode | |
| | mg/dl | 274 | 232 | 316 | 21.00 | 42.00 | | |
| | mmol/l | 15.4 | 13.1 | 17.7 | 1.15 | 2.30 | Glucose oxidase | |
| | mg/dl | 278 | 236 | 320 | 21.00 | 42.00 | | |
| | HDL - Cholesterol | mmol/l | 3.07 | 2.61 | 3.53 | 0.23 | 0.46 | Direct HDL PPD |
| | | mg/dl | 119 | 101 | 137 | 9.00 | 18.00 | |
| mmol/l | | 2.74 | 2.33 | 3.15 | 0.21 | 0.41 | Direct HDL Immunoseparation | |
| mg/dl | | 106 | 89.9 | 122 | 8.05 | 16.10 | | |
| mmol/l | | 2.58 | 2.20 | 2.96 | 0.19 | 0.38 | Vitros Magnetic HDL | |
| mg/dl | | 99.6 | 84.9 | 114 | 7.35 | 14.70 | | |
| mmol/l | | 2.99 | 2.54 | 3.44 | 0.23 | 0.45 | Direct Clearance Method | |
| mg/dl | | 115 | 98.0 | 132 | 8.50 | 17.00 | | |
| mmol/l | | 2.58 | 2.20 | 2.96 | 0.19 | 0.38 | Vitros 5.1 FS microtip assay | |
| mg/dl | | 99.6 | 84.9 | 114 | 7.35 | 14.70 | | |
| mmol/l | | 2.59 | 2.20 | 2.98 | 0.20 | 0.39 | Vitros dHDL PTA/MgCl ₂ direct precipitation | |
| mg/dl | | 100 | 84.9 | 115 | 7.55 | 15.10 | | |
| mmol/l | | 3.41 | 2.90 | 3.92 | 0.26 | 0.51 | Direct HDL Roche 3rd generation | |
| mg/dl | | 132 | 112 | 152 | 10.00 | 20.00 | | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|--------|--------------------------------------|
| HDL - Cholesterol | mmol/l | 2.81 | 2.39 | 3.23 | 0.21 | 0.42 | HDL - Ultra |
| | mg/dl | 108 | 92.3 | 124 | 7.85 | 15.70 | |
| Immunoglobulin A | g/l | 1.71 | 1.28 | 2.14 | 0.22 | 0.43 | Immunoturbidimetric |
| | mg/dl | 171 | 128 | 214 | 21.50 | 43.00 | |
| Immunoglobulin G | g/l | 6.61 | 5.42 | 7.80 | 0.60 | 1.19 | Immunoturbidimetric |
| | mg/dl | 661 | 542 | 780 | 59.50 | 119.00 | |
| Immunoglobulin M | g/l | 0.74 | 0.60 | 0.89 | 0.07 | 0.15 | Immunoturbidimetric |
| | mg/dl | 74.4 | 59.5 | 89.3 | 7.45 | 14.90 | |
| Iron | µmol/l | 40.6 | 33.3 | 47.9 | 3.65 | 7.30 | Colorimetric with ppt. |
| | µg/dl | 227 | 186 | 268 | 20.50 | 41.00 | |
| | µmol/l | 41.1 | 33.7 | 48.5 | 3.70 | 7.40 | Colorimetric without ppt. |
| | µg/dl | 230 | 188 | 272 | 21.00 | 42.00 | |
| Lactate | mmol/l | 5.10 | 4.18 | 6.02 | 0.46 | 0.92 | Colorimetric Lactate Oxidase |
| | mg/dl | 46.0 | 37.7 | 54.3 | 4.15 | 8.30 | |
| | mmol/l | 4.69 | 3.84 | 5.54 | 0.43 | 0.85 | Ortho Vitros Microslide Systems |
| | mg/dl | 42.3 | 34.6 | 50.0 | 3.85 | 7.70 | |
| LAP | U/l | 15 | 13 | 17 | 1.00 | 2.00 | NAGEL 37°C |
| | U/l | 15 | 13 | 17 | 1.00 | 2.00 | |
| LD (LDH) | U/l | 987 | 839 | 1135 | 74.00 | 148.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 341 | 290 | 392 | 25.50 | 51.00 | |
| | U/l | 246 | 209 | 283 | 18.50 | 37.00 | |
| | U/l | 173 | 147 | 199 | 13.00 | 26.00 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------|--------|--------|------|------|-------|--------|---|
| LD (LDH) | U/l | 733 | 623 | 843 | 55.00 | 110.00 | P->L Scandinavian & Dutch 37°C |
| | U/l | 529 | 450 | 608 | 39.50 | 79.00 | P->L Scandinavian & Dutch 30°C |
| | U/l | 372 | 316 | 428 | 28.00 | 56.00 | P->L Scandinavian & Dutch 25°C |
| | U/l | 718 | 610 | 826 | 54.00 | 108.00 | P->L German methods 37°C |
| | U/l | 518 | 440 | 596 | 39.00 | 78.00 | P->L German methods 30°C |
| | U/l | 364 | 309 | 419 | 27.50 | 55.00 | P->L German methods 25°C |
| | U/l | 370 | 315 | 425 | 27.50 | 55.00 | L->P IFCC 37°C |
| | U/l | 267 | 227 | 307 | 20.00 | 40.00 | L->P IFCC 30°C |
| | U/l | 188 | 160 | 216 | 14.00 | 28.00 | L->P IFCC 25°C |
| Lipase | U/l | 63 | 51 | 75 | 6.00 | 12.00 | Other Colorimetric 37°C |
| | U/l | 694 | 557 | 831 | 68.50 | 137.00 | Ortho Vitros Microslide Systems 37°C |
| | U/l | 59 | 47 | 71 | 6.00 | 12.00 | Roche Colorimetric 37°C |
| | U/l | 405 | 325 | 485 | 40.00 | 80.00 | Randox Turbidimetric with colipase 37°C |
| | U/l | 87 | 70 | 104 | 8.50 | 17.00 | Randox Colorimetric 37°C |
| Lithium | mmol/l | 2.39 | 2.10 | 2.68 | 0.15 | 0.29 | Ortho Vitros Microslide Systems |
| | mg/dl | 1.66 | 1.46 | 1.86 | 0.10 | 0.20 | |
| | mmol/l | 2.06 | 1.82 | 2.30 | 0.12 | 0.24 | Ion selective electrode |
| | mg/dl | 1.43 | 1.26 | 1.60 | 0.09 | 0.17 | |
| | mmol/l | 2.06 | 1.81 | 2.31 | 0.13 | 0.25 | Spectrophotometric |
| | mg/dl | 1.43 | 1.26 | 1.60 | 0.09 | 0.17 | |
| | mmol/l | 2.04 | 1.80 | 2.28 | 0.12 | 0.24 | Randox Colorimetric |
| mg/dl | 1.42 | 1.25 | 1.59 | 0.09 | 0.17 | | |
| Magnesium | mmol/l | 1.77 | 1.56 | 1.98 | 0.11 | 0.21 | Arsenazo III |
| | mg/dl | 4.30 | 3.79 | 4.81 | 0.26 | 0.51 | |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|-------|---------------------------------|
| Magnesium | mmol/l | 1.83 | 1.61 | 2.05 | 0.11 | 0.22 | Ortho Vitros Microslide Systems |
| | mg/dl | 4.45 | 3.91 | 4.99 | 0.27 | 0.54 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Atomic absorption |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| | mmol/l | 1.71 | 1.50 | 1.92 | 0.11 | 0.21 | Calmagite |
| | mg/dl | 4.16 | 3.65 | 4.67 | 0.26 | 0.51 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| | mmol/l | 1.77 | 1.56 | 1.98 | 0.11 | 0.21 | Methylthymol blue |
| | mg/dl | 4.30 | 3.79 | 4.81 | 0.26 | 0.51 | |
| | mmol/l | 1.79 | 1.58 | 2.00 | 0.11 | 0.21 | Chlorphosphonazo III |
| | mg/dl | 4.35 | 3.84 | 4.86 | 0.26 | 0.51 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Enzymatic |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| NEFA | mmol/l | 0.44 | 0.37 | 0.51 | 0.03 | 0.07 | Colorimetric |
| Osmolality | mOsm/kg | 349 | 279 | 419 | 35.00 | 70.00 | Calculated |
| | mOsm/kg | 386 | 309 | 463 | 38.50 | 77.00 | Freezing point depression |
| Paracetamol | mmol/l | 0.60 | 0.48 | 0.71 | 0.06 | 0.12 | Gravimetric |
| | mg/l | 90.0 | 72.0 | 108 | 9.00 | 18.00 | |
| Phosphate Inorganic | mmol/l | 2.22 | 1.88 | 2.56 | 0.17 | 0.34 | Ortho Vitros Microslide Systems |
| | mg/dl | 6.88 | 5.83 | 7.93 | 0.53 | 1.05 | |
| | mmol/l | 2.22 | 1.89 | 2.55 | 0.17 | 0.33 | Phosphomolybdate enzymatic |
| | mg/dl | 6.88 | 5.86 | 7.90 | 0.51 | 1.02 | |
| | mmol/l | 2.22 | 1.89 | 2.55 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.88 | 5.86 | 7.90 | 0.51 | 1.02 | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------|---------|--------|------|------|------|------|--|
| Potassium | mmol/l | 6.19 | 5.70 | 6.68 | 0.25 | 0.49 | Ortho Vitros Microslide Systems |
| | mmol/l | 6.13 | 5.64 | 6.62 | 0.25 | 0.49 | Enzymatic |
| | mmol/l | 6.05 | 5.57 | 6.53 | 0.24 | 0.48 | Flame photometry |
| | mmol/l | 6.14 | 5.65 | 6.63 | 0.25 | 0.49 | ISE method - direct |
| | mmol/l | 6.25 | 5.75 | 6.75 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 47.4 | 37.9 | 56.9 | 4.75 | 9.50 | Ortho Vitros Microslide Systems |
| | g/dl | 4.74 | 3.79 | 5.69 | 0.48 | 0.95 | |
| | g/l | 47.3 | 37.9 | 56.7 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.73 | 3.79 | 5.67 | 0.47 | 0.94 | |
| | g/l | 46.0 | 36.8 | 55.2 | 4.60 | 9.20 | Biuret reaction kinetic |
| | g/dl | 4.60 | 3.68 | 5.52 | 0.46 | 0.92 | |
| PSA Total | ng/ml = | 18.6 | 13.9 | 23.3 | 2.35 | 4.70 | Tosoh Series |
| | ng/ml = | 21.5 | 16.1 | 26.9 | 2.70 | 5.40 | Siemens Immulite 1000 |
| | ng/ml = | 27.4 | 20.6 | 34.2 | 3.40 | 6.80 | Roche Elecsys Modular E170 |
| | ng/ml = | 24.4 | 18.3 | 30.5 | 3.05 | 6.10 | Beckman Access standardised to Hybritech |
| | ng/ml = | 26.7 | 20.0 | 33.4 | 3.35 | 6.70 | bioMerieux VIDAS TPSA |
| | ng/ml = | 22.7 | 17.0 | 28.4 | 2.85 | 5.70 | Siemens Centaur XP/XPT/Classic |
| | ng/ml = | 24.6 | 18.4 | 30.8 | 3.10 | 6.20 | Siemens Immulite 2000 1st Generation |
| | ng/ml = | 23.1 | 17.3 | 28.9 | 2.90 | 5.80 | Siemens Immulite 2000 3rd Generation |
| | ng/ml = | 23.2 | 17.4 | 29.0 | 2.90 | 5.80 | Abbott Architect |
| | ng/ml = | 25.5 | 19.1 | 31.9 | 3.20 | 6.40 | Ortho Vitros ECi |
| | ng/ml = | 28.0 | 21.0 | 35.0 | 3.50 | 7.00 | Cobas E411 |
| | ng/ml = | 26.7 | 20.0 | 33.4 | 3.35 | 6.70 | Roche Cobas 6000/8000 |
| | ng/ml = | 25.7 | 19.3 | 32.1 | 3.20 | 6.40 | Ortho Vitros 3600/5600/ECi PSA II |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|------|-------|-------------------------------|---|
| PSA Total | ng/ml = | 27.4 | 20.6 | 34.2 | 3.40 | 6.80 | Beckman DXI standardised to Hybritech |
| Salicylate | mmol/l | 0.87 | 0.70 | 1.04 | 0.09 | 0.17 | Gravimetric |
| | mg/dl | 12.0 | 9.60 | 14.4 | 1.20 | 2.40 | |
| Sodium | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | Ortho Vitros Microslide Systems |
| | mmol/l | 156 | 148 | 164 | 4.00 | 8.00 | Enzymatic |
| | mmol/l | 157 | 149 | 165 | 4.00 | 8.00 | Flame photometry |
| | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | ISE method - direct |
| | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Theophylline | µmol/l | 139 | 111 | 167 | 14.00 | 28.00 | Gravimetric |
| | µg/ml | 25.0 | 20.0 | 30.0 | 2.50 | 5.00 | |
| Thyroid Stimulating Hormone | µU/ml = | 1.07 | 0.85 | 1.29 | 0.11 | 0.22 | Abbott Architect |
| | µU/ml = | 1.31 | 1.05 | 1.57 | 0.13 | 0.26 | bioMerieux VIDAS TSH |
| | µU/ml = | 1.28 | 1.03 | 1.53 | 0.13 | 0.25 | bioMerieux VIDAS TSH3 Ultrasensitive |
| | µU/ml = | 1.30 | 1.04 | 1.56 | 0.13 | 0.26 | Siemens Immulite 2000/2500 |
| | µU/ml = | 1.23 | 0.98 | 1.48 | 0.12 | 0.25 | Siemens Immulite 1000 |
| | µU/ml = | 1.44 | 1.15 | 1.73 | 0.15 | 0.29 | Roche Elecsys |
| | µU/ml = | 1.53 | 1.22 | 1.84 | 0.16 | 0.31 | Diasorin Liaison |
| | µU/ml = | 1.18 | 0.94 | 1.42 | 0.12 | 0.24 | Beckman Access hyperTSH 3rd Generation |
| | µU/ml = | 1.24 | 0.99 | 1.49 | 0.13 | 0.25 | Tosoh Series |
| | µU/ml = | 1.26 | 1.01 | 1.51 | 0.13 | 0.25 | Vitros ECi |
| | µU/ml = | 1.42 | 1.14 | 1.70 | 0.14 | 0.28 | Roche Cobas E411 |
| | µU/ml = | 1.41 | 1.13 | 1.69 | 0.14 | 0.28 | Roche Cobas 6000/8000 |
| | µU/ml = | 1.17 | 0.94 | 1.40 | 0.12 | 0.23 | Beckman Dxl800 Hyper TSH |
| | µU/ml = | 1.14 | 0.92 | 1.37 | 0.11 | 0.23 | Siemens Centaur XP/XPT/Classic TSH3-Ultra |
| µU/ml = | 1.06 | 0.85 | 1.27 | 0.11 | 0.21 | Siemens Centaur CP TSH3-Ultra | |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|-------|-------|----------------------------|-------------------------------------|
| Thyroid Stimulating Hormone | µU/ml = | 1.18 | 0.95 | 1.42 | 0.12 | 0.24 | Beckman Dxl 600/800 Access (3rd IS) |
| TIBC | µmol/l | 46.9 | 37.0 | 56.8 | 4.95 | 9.90 | Removal of excess free iron |
| | µg/dl | 262 | 207 | 317 | 27.50 | 55.00 | |
| | µmol/l | 52.0 | 41.1 | 62.9 | 5.45 | 10.90 | FE+UIBC(saturation with iron) |
| | µg/dl | 291 | 230 | 352 | 30.50 | 61.00 | |
| | µmol/l | 46.9 | 37.1 | 56.7 | 4.90 | 9.80 | Direct Colorimetric |
| | µg/dl | 262 | 207 | 317 | 27.50 | 55.00 | |
| | µmol/l | 39.9 | 31.6 | 48.2 | 4.15 | 8.30 | Calculated from Transferrin |
| | µg/dl | 223 | 177 | 269 | 23.00 | 46.00 | |
| Tobramycin | µmol/l | 15.6 | 12.5 | 18.7 | 1.55 | 3.10 | Gravimetric |
| | µg/ml | 7.30 | 5.85 | 8.75 | 0.73 | 1.45 | |
| Total T3 | nmol/l | 3.25 | 2.44 | 4.06 | 0.41 | 0.81 | Abbott Architect |
| | ng/ml | 2.12 | 1.59 | 2.65 | 0.27 | 0.53 | |
| | ng/dl | 212 | 159 | 265 | 26.50 | 53.00 | Abbott Architect |
| | nmol/l | 3.92 | 2.94 | 4.90 | 0.49 | 0.98 | BioMerieux Vidas |
| | ng/ml | 2.55 | 1.91 | 3.19 | 0.32 | 0.64 | |
| | ng/dl | 255 | 191 | 319 | 32.00 | 64.00 | BioMerieux Vidas |
| | nmol/l | 4.56 | 3.42 | 5.70 | 0.57 | 1.14 | Siemens Centaur XP/XPT/Classic |
| | ng/ml | 2.97 | 2.23 | 3.71 | 0.37 | 0.74 | |
| | ng/dl | 297 | 223 | 371 | 37.00 | 74.00 | Siemens Centaur XP/XPT/Classic |
| | nmol/l | 3.81 | 2.85 | 4.77 | 0.48 | 0.96 | Siemens Immulite 2000/2500 |
| ng/ml | 2.48 | 1.86 | 3.10 | 0.31 | 0.62 | | |
| ng/dl | 248 | 186 | 310 | 31.00 | 62.00 | Siemens Immulite 2000/2500 | |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------|--------|--------|------|-------|-------|----------------------------|-----------------------|
| Total T3 | nmol/l | 4.32 | 3.24 | 5.40 | 0.54 | 1.08 | Siemens Immulite 1000 |
| | ng/ml | 2.81 | 2.11 | 3.51 | 0.35 | 0.70 | |
| | ng/dl | 281 | 211 | 351 | 35.00 | 70.00 | Siemens Immulite 1000 |
| | nmol/l | 3.44 | 2.58 | 4.30 | 0.43 | 0.86 | Beckman Dxl800 |
| | ng/ml | 2.24 | 1.68 | 2.80 | 0.28 | 0.56 | |
| | ng/dl | 224 | 168 | 280 | 28.00 | 56.00 | Beckman Dxl800 |
| | nmol/l | 4.12 | 3.09 | 5.15 | 0.52 | 1.03 | Roche Elecsys |
| | ng/ml | 2.68 | 2.01 | 3.35 | 0.34 | 0.67 | |
| | ng/dl | 268 | 201 | 335 | 33.50 | 67.00 | Roche Elecsys |
| | nmol/l | 3.66 | 2.75 | 4.57 | 0.46 | 0.91 | Beckman Access |
| | ng/ml | 2.38 | 1.79 | 2.97 | 0.30 | 0.59 | |
| | ng/dl | 238 | 179 | 297 | 29.50 | 59.00 | Beckman Access |
| | nmol/l | 6.44 | 4.83 | 8.05 | 0.81 | 1.61 | Vitros ECi |
| | ng/ml | 4.19 | 3.14 | 5.24 | 0.53 | 1.05 | |
| | ng/dl | 419 | 314 | 524 | 52.50 | 105.00 | Vitros ECi |
| | nmol/l | 4.21 | 3.15 | 5.27 | 0.53 | 1.06 | Roche Cobas E411 |
| | ng/ml | 2.74 | 2.05 | 3.43 | 0.35 | 0.69 | |
| | ng/dl | 274 | 205 | 343 | 34.50 | 69.00 | Roche Cobas E411 |
| | nmol/l | 4.13 | 3.10 | 5.16 | 0.52 | 1.03 | Roche Cobas 6000/8000 |
| | ng/ml | 2.69 | 2.02 | 3.36 | 0.34 | 0.67 | |
| ng/dl | 269 | 202 | 336 | 33.50 | 67.00 | Roche Cobas 6000/8000 | |
| nmol/l | 3.65 | 2.74 | 4.56 | 0.46 | 0.91 | Monobind Inc. ELISA / CLIA | |
| ng/ml | 2.38 | 1.78 | 2.98 | 0.30 | 0.60 | | |
| ng/dl | 238 | 178 | 298 | 30.00 | 60.00 | Monobind Inc. ELISA / CLIA | |
| nmol/l | 4.68 | 3.51 | 5.85 | 0.59 | 1.17 | Siemens Centaur CP | |
| ng/ml | 3.05 | 2.29 | 3.81 | 0.38 | 0.76 | | |
| ng/dl | 305 | 229 | 381 | 38.00 | 76.00 | Siemens Centaur CP | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------|--------|--------|------|-------|-------|----------------|--------------------------------|
| Total T4 | nmol/l | 214 | 160 | 268 | 27.00 | 54.00 | Abbott Architect |
| | µg/dl | 16.7 | 12.5 | 20.9 | 2.10 | 4.20 | |
| | ng/ml | 167 | 125 | 209 | 21.00 | 42.00 | Abbott Architect |
| | nmol/l | 210 | 158 | 262 | 26.00 | 52.00 | BioMerieux Vidas |
| | µg/dl | 16.4 | 12.3 | 20.5 | 2.05 | 4.10 | |
| | ng/ml | 164 | 123 | 205 | 20.50 | 41.00 | BioMerieux Vidas |
| | nmol/l | 214 | 160 | 268 | 27.00 | 54.00 | Siemens Centaur XP/XPT/Classic |
| | µg/dl | 16.7 | 12.5 | 20.9 | 2.10 | 4.20 | |
| | ng/ml | 167 | 125 | 209 | 21.00 | 42.00 | Siemens Centaur XP/XPT/Classic |
| | nmol/l | 215 | 161 | 269 | 27.00 | 54.00 | Siemens Immulite 2000/2500 |
| | µg/dl | 16.8 | 12.6 | 21.0 | 2.10 | 4.20 | |
| | ng/ml | 168 | 126 | 210 | 21.00 | 42.00 | Siemens Immulite 2000/2500 |
| | nmol/l | 229 | 172 | 286 | 28.50 | 57.00 | Siemens Immulite 1000 |
| | µg/dl | 17.9 | 13.4 | 22.4 | 2.25 | 4.50 | |
| | ng/ml | 179 | 134 | 224 | 22.50 | 45.00 | Siemens Immulite 1000 |
| | nmol/l | 243 | 182 | 304 | 30.50 | 61.00 | Beckman Dxl800 |
| | µg/dl | 19.0 | 14.2 | 23.8 | 2.40 | 4.80 | |
| | ng/ml | 190 | 142 | 238 | 24.00 | 48.00 | Beckman Dxl800 |
| | nmol/l | 206 | 155 | 257 | 25.50 | 51.00 | Roche Elecsys |
| | µg/dl | 16.1 | 12.1 | 20.1 | 2.00 | 4.00 | |
| ng/ml | 161 | 121 | 201 | 20.00 | 40.00 | Roche Elecsys | |
| nmol/l | 229 | 172 | 286 | 28.50 | 57.00 | Beckman Access | |
| µg/dl | 17.9 | 13.4 | 22.4 | 2.25 | 4.50 | | |
| ng/ml | 179 | 134 | 224 | 22.50 | 45.00 | Beckman Access | |

MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------|--------|--------|------|-------|-------|--------------------|---------------------------------------|
| Total T4 | nmol/l | 223 | 167 | 279 | 28.00 | 56.00 | Vitros ECi |
| | µg/dl | 17.4 | 13.0 | 21.8 | 2.20 | 4.40 | |
| | ng/ml | 174 | 130 | 218 | 22.00 | 44.00 | Vitros ECi |
| | nmol/l | 198 | 148 | 248 | 25.00 | 50.00 | Roche Cobas E411 |
| | µg/dl | 15.4 | 11.5 | 19.3 | 1.95 | 3.90 | |
| | ng/ml | 154 | 115 | 193 | 19.50 | 39.00 | Roche Cobas E411 |
| | nmol/l | 190 | 143 | 237 | 23.50 | 47.00 | Roche Cobas 6000/8000 |
| | µg/dl | 14.8 | 11.2 | 18.4 | 1.80 | 3.60 | |
| | ng/ml | 148 | 112 | 184 | 18.00 | 36.00 | Roche Cobas 6000/8000 |
| | nmol/l | 213 | 160 | 266 | 26.50 | 53.00 | Siemens Centaur CP |
| µg/dl | 16.6 | 12.5 | 20.7 | 2.05 | 4.10 | | |
| ng/ml | 166 | 125 | 207 | 20.50 | 41.00 | Siemens Centaur CP | |
| Transferrin | g/l | 1.72 | 1.38 | 2.06 | 0.17 | 0.34 | Immunoturbidimetric |
| | mg/dl | 172 | 138 | 206 | 17.00 | 34.00 | |
| Triglycerides | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |
| | mmol/l | 2.89 | 2.43 | 3.35 | 0.23 | 0.46 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 256 | 215 | 297 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |
| | mmol/l | 2.89 | 2.43 | 3.35 | 0.23 | 0.46 | L/G kinase EP. 0.11 mmol/l correction |
| | mg/dl | 256 | 215 | 297 | 20.50 | 41.00 | |
| | mmol/l | 2.90 | 2.44 | 3.36 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 257 | 216 | 298 | 20.50 | 41.00 | |



MEAN OF ALL INSTRUMENTS

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|---------------|-------------------|--------|------|------|-------|-------|---|---------------------------------|
| Triglycerides | mmol/l | 3.22 | 2.71 | 3.73 | 0.26 | 0.51 | Ortho Vitros Microslide Systems | |
| | mg/dl | 285 | 240 | 330 | 22.50 | 45.00 | | |
| UIBC | μmol/l | 10.9 | 8.92 | 12.9 | 0.99 | 1.98 | Direct Colorimetric | |
| | μg/dl | 60.9 | 49.9 | 71.9 | 5.50 | 11.00 | | |
| Urea | mmol/l | 19.2 | 16.3 | 22.1 | 1.45 | 2.90 | Ortho Vitros Microslide Systems | |
| | mg/dl | 115 | 98.0 | 132 | 8.50 | 17.00 | | |
| | mmol/l | 20.4 | 17.3 | 23.5 | 1.55 | 3.10 | Urease end point | |
| | mg/dl | 123 | 104 | 142 | 9.50 | 19.00 | | |
| | mmol/l | 20.4 | 17.4 | 23.4 | 1.50 | 3.00 | Urease kinetic | |
| | mg/dl | 123 | 105 | 141 | 9.00 | 18.00 | | |
| | mmol/l | 19.7 | 16.7 | 22.7 | 1.50 | 3.00 | Urease hypochlorite | |
| | mg/dl | 118 | 100 | 136 | 9.00 | 18.00 | | |
| | mmol/l | 20.4 | 17.3 | 23.5 | 1.55 | 3.10 | BUN | |
| | mg/dl | 57.3 | 48.7 | 65.9 | 4.30 | 8.60 | | |
| | Uric Acid (Urate) | mmol/l | 0.51 | 0.45 | 0.58 | 0.03 | 0.07 | Ortho Vitros Microslide Systems |
| | | mg/dl | 8.62 | 7.49 | 9.75 | 0.57 | 1.13 | |
| mmol/l | | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase catalase 340nm | |
| mg/dl | | 9.06 | 7.88 | 10.2 | 0.59 | 1.18 | | |
| mmol/l | | 0.56 | 0.48 | 0.63 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase | |
| mg/dl | | 9.34 | 8.13 | 10.6 | 0.61 | 1.21 | | |
| mmol/l | | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase | |
| mg/dl | | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | | |
| mmol/l | | 0.54 | 0.47 | 0.60 | 0.03 | 0.07 | Spectrophotometric at 280-290 | |
| mg/dl | | 8.99 | 7.83 | 10.2 | 0.58 | 1.16 | | |
| mmol/l | | 0.54 | 0.47 | 0.62 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm | |
| mg/dl | | 9.14 | 7.95 | 10.3 | 0.60 | 1.19 | | |

**MEAN OF ALL INSTRUMENTS**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------|--------|--------|------|------|-------|-------|------------------------------------|
| Vitamin B12 | pmol/l | 252 | 202 | 302 | 25.00 | 50.00 | Roche Cobas E411 |
| | pg/ml | 341 | 274 | 408 | 33.50 | 67.00 | |
| Zinc | µmol/l | 39.4 | 31.6 | 47.2 | 3.90 | 7.80 | Atomic absorption |
| | µg/dl | 257 | 206 | 308 | 25.50 | 51.00 | |
| | µmol/l | 39.4 | 31.5 | 47.3 | 3.95 | 7.90 | Colorimetric with deproteinisation |
| | µg/dl | 257 | 206 | 308 | 25.50 | 51.00 | |

MINDRAY BS-200/300/400

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|----------------------------------|
| Albumin | g/l | 30.7 | 26.1 | 35.3 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.07 | 2.61 | 3.53 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 315 | 268 | 362 | 23.50 | 47.00 | AMP optimised to IFCC 37°C |
| | U/l | 245 | 209 | 281 | 18.00 | 36.00 | AMP optimised to IFCC 30°C |
| | U/l | 201 | 171 | 231 | 15.00 | 30.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 159 | 127 | 191 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 118 | 94 | 142 | 12.00 | 24.00 | Tris buffer without P5P 30°C |
| | U/l | 90 | 72 | 108 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 151 | 121 | 181 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 102 | 82 | 122 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 72 | 58 | 86 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bicarbonate | mmol/l | 18.4 | 14.6 | 22.2 | 1.90 | 3.80 | Enzymatic |
| Bilirubin Direct | µmol/l | 31.4 | 24.8 | 38.0 | 3.30 | 6.60 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 1.84 | 1.45 | 2.23 | 0.20 | 0.39 | |
| Bilirubin Total | µmol/l | 86.4 | 68.2 | 105 | 9.10 | 18.20 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.05 | 3.99 | 6.11 | 0.53 | 1.06 | |
| | µmol/l | 88.5 | 70.0 | 107 | 9.25 | 18.50 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 5.18 | 4.10 | 6.26 | 0.54 | 1.08 | |
| Calcium | mmol/l | 3.20 | 2.88 | 3.52 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.8 | 11.5 | 14.1 | 0.65 | 1.30 | |
| | mmol/l | 3.13 | 2.82 | 3.44 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.5 | 11.3 | 13.7 | 0.60 | 1.20 | |


MINDRAY BS-200/300/400
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------|--------|--------|------|------|--------|---------|---|
| Cholesterol | mmol/l | 7.56 | 6.58 | 8.54 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 292 | 254 | 330 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 5765 | 4612 | 6918 | 576.50 | 1153.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 489 | 401 | 577 | 44.00 | 88.00 | CK-NAC (IFCC) 37°C |
| | U/l | 306 | 251 | 361 | 27.50 | 55.00 | CK-NAC (IFCC) 30°C |
| | U/l | 208 | 170 | 246 | 19.00 | 38.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 367 | 294 | 440 | 36.50 | 73.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.15 | 3.32 | 4.98 | 0.42 | 0.83 | |
| | µmol/l | 355 | 284 | 426 | 35.50 | 71.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.01 | 3.21 | 4.81 | 0.40 | 0.80 | |
| | µmol/l | 372 | 297 | 447 | 37.50 | 75.00 | Creatinine PAP method |
| | mg/dl | 4.20 | 3.36 | 5.04 | 0.42 | 0.84 | |
| gamma-GT | U/l | 166 | 141 | 191 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 131 | 111 | 151 | 10.00 | 20.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 102 | 87 | 117 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 172 | 146 | 198 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 136 | 115 | 157 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 106 | 90 | 122 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.3 | 13.0 | 17.6 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 276 | 234 | 318 | 21.00 | 42.00 | |
| | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |


MINDRAY BS-200/300/400
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|--------|-------------------------------|
| HDL - Cholesterol | mmol/l | 2.66 | 2.26 | 3.06 | 0.20 | 0.40 | Direct HDL Immunoseparation |
| | mg/dl | 103 | 87.2 | 119 | 7.90 | 15.80 | |
| Iron | μmol/l | 38.3 | 31.4 | 45.2 | 3.45 | 6.90 | Colorimetric with ppt. |
| | μg/dl | 214 | 176 | 252 | 19.00 | 38.00 | |
| | μmol/l | 40.7 | 33.4 | 48.0 | 3.65 | 7.30 | Colorimetric without ppt. |
| | μg/dl | 228 | 187 | 269 | 20.50 | 41.00 | |
| Lactate | mmol/l | 5.04 | 4.14 | 5.94 | 0.45 | 0.90 | Colorimetric Lactate Oxidase |
| | mg/dl | 45.4 | 37.3 | 53.5 | 4.05 | 8.10 | |
| LD (LDH) | U/l | 732 | 623 | 841 | 54.50 | 109.00 | P->L SFBC 37°C |
| | U/l | 529 | 450 | 608 | 39.50 | 79.00 | P->L SFBC 30°C |
| | U/l | 371 | 316 | 426 | 27.50 | 55.00 | P->L SFBC 25°C |
| | U/l | 372 | 316 | 428 | 28.00 | 56.00 | L->P IFCC 37°C |
| | U/l | 269 | 228 | 310 | 20.50 | 41.00 | L->P IFCC 30°C |
| | U/l | 189 | 160 | 218 | 14.50 | 29.00 | L->P IFCC 25°C |
| Magnesium | mmol/l | 1.70 | 1.50 | 1.90 | 0.10 | 0.20 | Calmagite |
| | mg/dl | 4.13 | 3.65 | 4.61 | 0.24 | 0.48 | |
| | mmol/l | 1.63 | 1.43 | 1.83 | 0.10 | 0.20 | Xylidyl Blue |
| | mg/dl | 3.96 | 3.47 | 4.45 | 0.25 | 0.49 | |
| Phosphate Inorganic | mmol/l | 2.28 | 1.94 | 2.62 | 0.17 | 0.34 | Phosphomolybdate enzymatic |
| | mg/dl | 7.07 | 6.01 | 8.13 | 0.53 | 1.06 | |
| | mmol/l | 2.13 | 1.81 | 2.45 | 0.16 | 0.32 | Phosphomolybdate UV |
| | mg/dl | 6.60 | 5.61 | 7.59 | 0.50 | 0.99 | |
| Protein Total | g/l | 48.9 | 39.1 | 58.7 | 4.90 | 9.80 | Biuret reaction end point |
| | g/dl | 4.89 | 3.91 | 5.87 | 0.49 | 0.98 | |
| TIBC | μmol/l | 52.7 | 41.6 | 63.8 | 5.55 | 11.10 | FE+UIBC(saturation with iron) |
| | μg/dl | 295 | 233 | 357 | 31.00 | 62.00 | |

MINDRAY BS-200/300/400

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Triglycerides | mmol/l | 2.84 | 2.39 | 3.29 | 0.23 | 0.45 | Lipase/GPO-PAP no correction |
| | mg/dl | 251 | 212 | 290 | 19.50 | 39.00 | |
| | mmol/l | 2.85 | 2.39 | 3.31 | 0.23 | 0.46 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 252 | 212 | 292 | 20.00 | 40.00 | |
| | mmol/l | 2.92 | 2.45 | 3.39 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.88 | 2.42 | 3.34 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 255 | 214 | 296 | 20.50 | 41.00 | |
| Urea | mmol/l | 20.5 | 17.4 | 23.6 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 123 | 105 | 141 | 9.00 | 18.00 | |
| | mmol/l | 20.5 | 17.4 | 23.6 | 1.55 | 3.10 | BUN |
| | mg/dl | 57.5 | 48.9 | 66.1 | 4.30 | 8.60 | |
| Uric Acid (Urate) | mmol/l | 0.55 | 0.47 | 0.62 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.16 | 7.96 | 10.4 | 0.60 | 1.20 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.22 | 8.03 | 10.4 | 0.60 | 1.19 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.07 | 7.90 | 10.2 | 0.59 | 1.17 | |

PRESTIGE 24i

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|----------------------------------|
| Albumin | g/l | 30.0 | 25.5 | 34.5 | 2.25 | 4.50 | Bromocresol Green |
| | g/dl | 3.00 | 2.55 | 3.45 | 0.23 | 0.45 | |
| Alkaline Phosphatase | U/l | 288 | 245 | 331 | 21.50 | 43.00 | AMP optimised to IFCC 37°C |
| | U/l | 224 | 191 | 257 | 16.50 | 33.00 | AMP optimised to IFCC 30°C |
| | U/l | 184 | 157 | 211 | 13.50 | 27.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 159 | 127 | 191 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| | U/l | 118 | 94 | 142 | 12.00 | 24.00 | Tris buffer without P5P 30°C |
| | U/l | 90 | 72 | 108 | 9.00 | 18.00 | Tris buffer without P5P 25°C |
| AST (GOT) | U/l | 151 | 121 | 181 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 102 | 82 | 122 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 72 | 58 | 86 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bilirubin Direct | µmol/l | 31.9 | 25.2 | 38.6 | 3.35 | 6.70 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 1.87 | 1.47 | 2.27 | 0.20 | 0.40 | |
| Bilirubin Total | µmol/l | 83.6 | 66.0 | 101 | 8.80 | 17.60 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 4.89 | 3.86 | 5.92 | 0.52 | 1.03 | |
| | µmol/l | 93.1 | 73.5 | 113 | 9.80 | 19.60 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 5.45 | 4.30 | 6.60 | 0.58 | 1.15 | |
| | µmol/l | 98.1 | 77.5 | 119 | 10.30 | 20.60 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 5.74 | 4.53 | 6.95 | 0.61 | 1.21 | |
| Calcium | mmol/l | 3.01 | 2.71 | 3.31 | 0.15 | 0.30 | Cresolphthalein complexone |
| | mg/dl | 12.1 | 10.9 | 13.3 | 0.60 | 1.20 | |

PRESTIGE 24i

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| Chloride | mmol/l | 107 | 98.0 | 116 | 4.50 | 9.00 | Colorimetric |
| Cholesterol | mmol/l | 7.78 | 6.77 | 8.79 | 0.51 | 1.01 | Cholesterol Oxidase |
| | mg/dl | 300 | 261 | 339 | 19.50 | 39.00 | |
| CK Total | U/l | 498 | 409 | 587 | 44.50 | 89.00 | CK-NAC (IFCC) 37°C |
| | U/l | 312 | 256 | 368 | 28.00 | 56.00 | CK-NAC (IFCC) 30°C |
| | U/l | 212 | 174 | 250 | 19.00 | 38.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 357 | 285 | 429 | 36.00 | 72.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.03 | 3.22 | 4.84 | 0.41 | 0.81 | |
| gamma-GT | U/l | 177 | 150 | 204 | 13.50 | 27.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 139 | 118 | 160 | 10.50 | 21.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 109 | 93 | 125 | 8.00 | 16.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| Glucose | mmol/l | 15.7 | 13.4 | 18.0 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 283 | 241 | 325 | 21.00 | 42.00 | |
| Iron | µmol/l | 41.5 | 34.1 | 48.9 | 3.70 | 7.40 | Colorimetric without ppt. |
| | µg/dl | 232 | 191 | 273 | 20.50 | 41.00 | |
| Phosphate Inorganic | mmol/l | 2.29 | 1.95 | 2.63 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 7.10 | 6.05 | 8.15 | 0.53 | 1.05 | |
| Protein Total | g/l | 48.0 | 38.4 | 57.6 | 4.80 | 9.60 | Biuret reaction end point |
| | g/dl | 4.80 | 3.84 | 5.76 | 0.48 | 0.96 | |
| Triglycerides | mmol/l | 2.89 | 2.43 | 3.35 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 256 | 215 | 297 | 20.50 | 41.00 | |
| Urea | mmol/l | 20.6 | 17.5 | 23.7 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 124 | 105 | 143 | 9.50 | 19.00 | |
| | mmol/l | 20.6 | 17.5 | 23.7 | 1.55 | 3.10 | BUN |
| | mg/dl | 57.8 | 49.1 | 66.5 | 4.35 | 8.70 | |

**PRESTIGE 24i**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|---|
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.62 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.14 | 7.95 | 10.3 | 0.60 | 1.19 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.22 | 8.03 | 10.4 | 0.60 | 1.19 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.21 | 8.01 | 10.4 | 0.60 | 1.20 | |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 31.3 | 26.6 | 36.0 | 2.35 | 4.70 | Bromocresol Green |
| | g/dl | 3.13 | 2.66 | 3.60 | 0.24 | 0.47 | |
| | g/l | 30.9 | 26.2 | 35.6 | 2.35 | 4.70 | Bromocresol Purple |
| | g/dl | 3.09 | 2.62 | 3.56 | 0.24 | 0.47 | |
| | g/l | 27.6 | 23.5 | 31.7 | 2.05 | 4.10 | Turbidimetric Assays |
| | g/dl | 2.76 | 2.35 | 3.17 | 0.21 | 0.41 | |
| Alkaline Phosphatase | U/l | 250 | 213 | 287 | 18.50 | 37.00 | Roche Integra AMP buffer 37°C |
| | U/l | 195 | 166 | 224 | 14.50 | 29.00 | Roche Integra AMP buffer 30°C |
| | U/l | 160 | 136 | 184 | 12.00 | 24.00 | Roche Integra AMP buffer 25°C |
| | U/l | 252 | 215 | 289 | 18.50 | 37.00 | AMP optimised to IFCC 37°C |
| | U/l | 196 | 167 | 225 | 14.50 | 29.00 | AMP optimised to IFCC 30°C |
| | U/l | 161 | 137 | 185 | 12.00 | 24.00 | AMP optimised to IFCC 25°C |
| | U/l | 251 | 213 | 289 | 19.00 | 38.00 | Colorimetric 37°C |
| | U/l | 196 | 166 | 226 | 15.00 | 30.00 | Colorimetric 30°C |
| | U/l | 160 | 136 | 184 | 12.00 | 24.00 | Colorimetric 25°C |
| ALT (GPT) | U/l | 147 | 118 | 176 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 109 | 87 | 131 | 11.00 | 22.00 | Tris buffer without P5P 30°C |
| | U/l | 83 | 66 | 100 | 8.50 | 17.00 | Tris buffer without P5P 25°C |
| Amylase Pancreatic | U/l | 246 | 209 | 283 | 18.50 | 37.00 | Immunoinhibition EPS substrate 37°C |
| | U/l | 244 | 207 | 281 | 18.50 | 37.00 | Roche EPS Liquid 37°C |
| Amylase Total | U/l | 266 | 226 | 306 | 20.00 | 40.00 | Randox Liquid Ethylidene pNPG7 37°C |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|-------|-------|-----------------------------------|
| Amylase Total | U/l | 267 | 227 | 307 | 20.00 | 40.00 | Roche Integra 2-chloro-pNPG7 37°C |
| | U/l | 268 | 228 | 308 | 20.00 | 40.00 | Other Roche 2-chloro-pNPG7 37°C |
| | U/l | 266 | 227 | 305 | 19.50 | 39.00 | Roche liquid stable pNPG7 37°C |
| AST (GOT) | U/l | 142 | 114 | 170 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| | U/l | 96 | 77 | 115 | 9.50 | 19.00 | Tris buffer without P5P 30°C |
| | U/l | 68 | 54 | 82 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bicarbonate | mmol/l | 17.2 | 13.6 | 20.8 | 1.80 | 3.60 | Colorimetric |
| | mmol/l | 17.3 | 13.7 | 20.9 | 1.80 | 3.60 | Enzymatic |
| Bile Acids | µmol/l | 46.2 | 37.0 | 55.4 | 4.60 | 9.20 | Enzymatic Colorimetric |
| Bilirubin Direct | µmol/l | 28.8 | 22.8 | 34.8 | 3.00 | 6.00 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.68 | 1.33 | 2.03 | 0.18 | 0.35 | |
| | µmol/l | 29.0 | 22.9 | 35.1 | 3.05 | 6.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.70 | 1.34 | 2.06 | 0.18 | 0.36 | |
| | µmol/l | 28.5 | 22.5 | 34.5 | 3.00 | 6.00 | Roche JG factored |
| | mg/dl | 1.67 | 1.32 | 2.02 | 0.18 | 0.35 | |
| | µmol/l | 28.0 | 22.1 | 33.9 | 2.95 | 5.90 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.64 | 1.29 | 1.99 | 0.18 | 0.35 | |
| Bilirubin Total | µmol/l | 81.2 | 64.1 | 98.3 | 8.55 | 17.10 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 4.75 | 3.75 | 5.75 | 0.50 | 1.00 | |
| | µmol/l | 78.7 | 62.2 | 95.2 | 8.25 | 16.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.60 | 3.64 | 5.56 | 0.48 | 0.96 | |
| | µmol/l | 79.0 | 62.4 | 95.6 | 8.30 | 16.60 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.62 | 3.65 | 5.59 | 0.49 | 0.97 | |
| | µmol/l | 81.4 | 64.3 | 98.5 | 8.55 | 17.10 | Nitrobenzenediazonium salt |
| | mg/dl | 4.76 | 3.76 | 5.76 | 0.50 | 1.00 | |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------|--------|--------|------|-------|--------|---|---|
| Bilirubin Total | µmol/l | 79.5 | 62.8 | 96.2 | 8.35 | 16.70 | Diazonium ion |
| | mg/dl | 4.65 | 3.67 | 5.63 | 0.49 | 0.98 | |
| Calcium | mmol/l | 3.14 | 2.82 | 3.46 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| | mmol/l | 3.16 | 2.84 | 3.48 | 0.16 | 0.32 | Arsenazo III |
| | mg/dl | 12.7 | 11.4 | 14.0 | 0.65 | 1.30 | |
| mmol/l | 3.13 | 2.81 | 3.45 | 0.16 | 0.32 | NM-BAPTA | |
| mg/dl | 12.5 | 11.3 | 13.7 | 0.60 | 1.20 | | |
| Chloride | mmol/l | 111 | 102 | 120 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.41 | 6.45 | 8.37 | 0.48 | 0.96 | Cholesterol Oxidase |
| | mg/dl | 286 | 249 | 323 | 18.50 | 37.00 | |
| Cholinesterase | U/l | 5541 | 4433 | 6649 | 554.00 | 1108.00 | Colorimetric Benzoylcholine 37°C |
| | U/l | 5367 | 4294 | 6440 | 536.50 | 1073.00 | |
| CK Total | U/l | 470 | 385 | 555 | 42.50 | 85.00 | CK-NAC serum start (DGKC) 37°C |
| | U/l | 294 | 241 | 347 | 26.50 | 53.00 | CK-NAC serum start (DGKC) 30°C |
| | U/l | 200 | 164 | 236 | 18.00 | 36.00 | CK-NAC serum start (DGKC) 25°C |
| | U/l | 471 | 386 | 556 | 42.50 | 85.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 295 | 242 | 348 | 26.50 | 53.00 | CK-NAC substrate start (DGKC) 30°C |
| | U/l | 200 | 164 | 236 | 18.00 | 36.00 | CK-NAC substrate start (DGKC) 25°C |
| | U/l | 474 | 389 | 559 | 42.50 | 85.00 | CK-NAC (IFCC) 37°C |
| | U/l | 297 | 244 | 350 | 26.50 | 53.00 | CK-NAC (IFCC) 30°C |
| | U/l | 201 | 165 | 237 | 18.00 | 36.00 | CK-NAC (IFCC) 25°C |
| | U/l | 495 | 406 | 584 | 44.50 | 89.00 | Creatinine phosphate substrate Start 37°C |
| U/l | 310 | 254 | 366 | 28.00 | 56.00 | Creatinine phosphate substrate Start 30°C | |
| U/l | 210 | 173 | 247 | 18.50 | 37.00 | Creatinine phosphate substrate Start 25°C | |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|-------|-------|---|---|
| Copper | µmol/l | 26.6 | 21.3 | 31.9 | 2.65 | 5.30 | Colorimetric |
| | µg/dl | 169 | 135 | 203 | 17.00 | 34.00 | |
| Creatinine | µmol/l | 384 | 307 | 461 | 38.50 | 77.00 | Alkaline picrate with deproteinization |
| | mg/dl | 4.34 | 3.47 | 5.21 | 0.44 | 0.87 | |
| | µmol/l | 382 | 306 | 458 | 38.00 | 76.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.32 | 3.46 | 5.18 | 0.43 | 0.86 | |
| | µmol/l | 396 | 316 | 476 | 40.00 | 80.00 | Enzymatic UV method |
| | mg/dl | 4.47 | 3.57 | 5.37 | 0.45 | 0.90 | |
| | µmol/l | 385 | 308 | 462 | 38.50 | 77.00 | Creatinine PAP method |
| | mg/dl | 4.35 | 3.48 | 5.22 | 0.44 | 0.87 | |
| | µmol/l | 394 | 315 | 473 | 39.50 | 79.00 | Roche Creatinine Plus |
| | mg/dl | 4.45 | 3.56 | 5.34 | 0.45 | 0.89 | |
| | µmol/l | 387 | 310 | 464 | 38.50 | 77.00 | Jaffe rate blanked |
| | mg/dl | 4.37 | 3.50 | 5.24 | 0.44 | 0.87 | |
| | µmol/l | 381 | 305 | 457 | 38.00 | 76.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.31 | 3.45 | 5.17 | 0.43 | 0.86 | |
| µmol/l | 387 | 310 | 464 | 38.50 | 77.00 | Jaffe rate blanked compensated (-18 µmol/l) | |
| mg/dl | 4.37 | 3.50 | 5.24 | 0.44 | 0.87 | | |
| µmol/l | 393 | 314 | 472 | 39.50 | 79.00 | IDMS traceable | |
| mg/dl | 4.44 | 3.55 | 5.33 | 0.45 | 0.89 | | |
| Free T4 | pmol/l | 74.6 | 55.9 | 93.3 | 9.35 | 18.70 | Roche Cobas 6000/8000 |
| | ng/dl | 5.82 | 4.36 | 7.28 | 0.73 | 1.46 | |
| | pg/ml | 58.2 | 43.6 | 72.8 | 7.30 | 14.60 | |
| gamma-GT | U/l | 164 | 139 | 189 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 129 | 110 | 148 | 9.50 | 19.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 101 | 86 | 116 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|----------|--------|--------|------|------|-------|--------|---|------------------------|
| gamma-GT | U/l | 183 | 155 | 211 | 14.00 | 28.00 | Gamma glutamyl-4-nitroanilide 37°C | |
| | U/l | 144 | 122 | 166 | 11.00 | 22.00 | Gamma glutamyl-4-nitroanilide 30°C | |
| | U/l | 113 | 96 | 130 | 8.50 | 17.00 | Gamma glutamyl-4-nitroanilide 25°C | |
| | U/l | 177 | 150 | 204 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C | |
| | U/l | 139 | 118 | 160 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C | |
| | U/l | 109 | 93 | 125 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C | |
| Glucose | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose dehydrogenase | |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | | |
| | mmol/l | 15.4 | 13.1 | 17.7 | 1.15 | 2.30 | Hexokinase | |
| | mg/dl | 278 | 236 | 320 | 21.00 | 42.00 | | |
| | mmol/l | 15.9 | 13.5 | 18.3 | 1.20 | 2.40 | Glucose oxidase | |
| | mg/dl | 287 | 243 | 331 | 22.00 | 44.00 | | |
| | Iron | µmol/l | 41.0 | 33.6 | 48.4 | 3.70 | 7.40 | Colorimetric with ppt. |
| | | µg/dl | 229 | 188 | 270 | 20.50 | 41.00 | |
| µmol/l | | 41.4 | 33.9 | 48.9 | 3.75 | 7.50 | Colorimetric without ppt. | |
| µg/dl | | 231 | 190 | 272 | 20.50 | 41.00 | | |
| Lactate | mmol/l | 5.13 | 4.21 | 6.05 | 0.46 | 0.92 | Colorimetric Lactate Oxidase | |
| | mg/dl | 46.2 | 37.9 | 54.5 | 4.15 | 8.30 | | |
| LD (LDH) | U/l | 374 | 318 | 430 | 28.00 | 56.00 | L->P 37°C | |
| | U/l | 270 | 230 | 310 | 20.00 | 40.00 | L->P 30°C | |
| | U/l | 190 | 161 | 219 | 14.50 | 29.00 | L->P 25°C | |
| | U/l | 714 | 607 | 821 | 53.50 | 107.00 | P->L Scandinavian & Dutch 37°C | |
| | U/l | 516 | 438 | 594 | 39.00 | 78.00 | P->L Scandinavian & Dutch 30°C | |
| | U/l | 362 | 308 | 416 | 27.00 | 54.00 | P->L Scandinavian & Dutch 25°C | |



Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|--------|--|
| LD (LDH) | U/l | 711 | 605 | 817 | 53.00 | 106.00 | P->L German methods 37°C |
| | U/l | 513 | 437 | 589 | 38.00 | 76.00 | P->L German methods 30°C |
| | U/l | 360 | 307 | 413 | 26.50 | 53.00 | P->L German methods 25°C |
| | U/l | 375 | 319 | 431 | 28.00 | 56.00 | L->P IFCC 37°C |
| | U/l | 271 | 230 | 312 | 20.50 | 41.00 | L->P IFCC 30°C |
| | U/l | 190 | 162 | 218 | 14.00 | 28.00 | L->P IFCC 25°C |
| Lipase | U/l | 58 | 46 | 70 | 6.00 | 12.00 | Other Colorimetric 37°C |
| | U/l | 57 | 46 | 68 | 5.50 | 11.00 | Roche Colorimetric 37°C |
| | U/l | 58 | 46 | 70 | 6.00 | 12.00 | Roche Turbidimetric with colipase 37°C |
| Lithium | mmol/l | 2.03 | 1.78 | 2.28 | 0.13 | 0.25 | Ion selective electrode |
| | mg/dl | 1.41 | 1.24 | 1.58 | 0.09 | 0.17 | |
| | mmol/l | 2.05 | 1.81 | 2.29 | 0.12 | 0.24 | Spectrophotometric |
| | mg/dl | 1.42 | 1.26 | 1.58 | 0.08 | 0.16 | |
| Magnesium | mmol/l | 1.76 | 1.55 | 1.97 | 0.11 | 0.21 | Arsenazo III |
| | mg/dl | 4.28 | 3.77 | 4.79 | 0.26 | 0.51 | |
| | mmol/l | 1.81 | 1.59 | 2.03 | 0.11 | 0.22 | Atomic absorption |
| | mg/dl | 4.40 | 3.86 | 4.94 | 0.27 | 0.54 | |
| | mmol/l | 1.80 | 1.59 | 2.01 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.37 | 3.86 | 4.88 | 0.26 | 0.51 | |
| | mmol/l | 1.80 | 1.58 | 2.02 | 0.11 | 0.22 | Chlorphosphonazo III |
| | mg/dl | 4.37 | 3.84 | 4.90 | 0.27 | 0.53 | |
| Osmolality | mOsm/kg | 352 | 281 | 423 | 35.50 | 71.00 | Calculated |
| Phosphate Inorganic | mmol/l | 2.20 | 1.87 | 2.53 | 0.17 | 0.33 | Phosphomolybdate enzymatic |
| | mg/dl | 6.82 | 5.80 | 7.84 | 0.51 | 1.02 | |
| | mmol/l | 2.21 | 1.88 | 2.54 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.85 | 5.83 | 7.87 | 0.51 | 1.02 | |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|------|-------|-------|--------------------------------------|
| Potassium | mmol/l | 6.32 | 5.81 | 6.83 | 0.26 | 0.51 | ISE method - indirect |
| Protein Total | g/l | 46.3 | 37.1 | 55.5 | 4.60 | 9.20 | Biuret reaction end point |
| | g/dl | 4.63 | 3.71 | 5.55 | 0.46 | 0.92 | |
| | g/l | 46.2 | 36.9 | 55.5 | 4.65 | 9.30 | Biuret reaction kinetic |
| | g/dl | 4.62 | 3.69 | 5.55 | 0.47 | 0.93 | |
| PSA Total | ng/ml = | 26.7 | 20.0 | 33.4 | 3.35 | 6.70 | Roche Cobas 6000/8000 |
| Sodium | mmol/l | 161 | 153 | 169 | 4.00 | 8.00 | ISE method - indirect |
| Thyroid Stimulating Hormone | μU/ml = | 1.42 | 1.13 | 1.71 | 0.15 | 0.29 | Roche Elecsys |
| | μU/ml = | 1.41 | 1.13 | 1.69 | 0.14 | 0.28 | Roche Cobas 6000/8000 |
| TIBC | μmol/l | 52.3 | 41.3 | 63.3 | 5.50 | 11.00 | FE+UIBC(saturation with iron) |
| | μg/dl | 292 | 231 | 353 | 30.50 | 61.00 | |
| | μmol/l | 43.4 | 34.3 | 52.5 | 4.55 | 9.10 | Calculated from Transferrin |
| | μg/dl | 243 | 192 | 294 | 25.50 | 51.00 | |
| Total T3 | nmol/l | 4.13 | 3.10 | 5.16 | 0.52 | 1.03 | Roche Cobas 6000/8000 |
| | ng/ml | 2.69 | 2.02 | 3.36 | 0.34 | 0.67 | |
| | ng/dl | 269 | 202 | 336 | 33.50 | 67.00 | Roche Cobas 6000/8000 |
| Total T4 | nmol/l | 190 | 143 | 237 | 23.50 | 47.00 | Roche Cobas 6000/8000 |
| | μg/dl | 14.8 | 11.2 | 18.4 | 1.80 | 3.60 | |
| | ng/ml | 148 | 112 | 184 | 18.00 | 36.00 | Roche Cobas 6000/8000 |
| Triglycerides | mmol/l | 2.92 | 2.45 | 3.39 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.91 | 2.45 | 3.37 | 0.23 | 0.46 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.90 | 2.44 | 3.36 | 0.23 | 0.46 | L/G Kinase EP. no correction |
| | mg/dl | 257 | 216 | 298 | 20.50 | 41.00 | |

Roche Cobas 6000 c501 e601

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Triglycerides | mmol/l | 2.90 | 2.43 | 3.37 | 0.24 | 0.47 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 257 | 215 | 299 | 21.00 | 42.00 | |
| UIBC | µmol/l | 10.6 | 8.71 | 12.5 | 0.94 | 1.89 | Direct Colorimetric |
| | µg/dl | 59.3 | 48.7 | 69.9 | 5.30 | 10.60 | |
| Urea | mmol/l | 20.2 | 17.2 | 23.2 | 1.50 | 3.00 | Urease end point |
| | mg/dl | 121 | 103 | 139 | 9.00 | 18.00 | |
| | mmol/l | 20.4 | 17.3 | 23.5 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 123 | 104 | 142 | 9.50 | 19.00 | |
| Uric Acid (Urate) | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase catalase 340nm |
| | mg/dl | 8.90 | 7.74 | 10.1 | 0.58 | 1.16 | |
| | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.92 | 7.76 | 10.1 | 0.58 | 1.16 | |
| Zinc | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 8.89 | 7.73 | 10.1 | 0.58 | 1.16 | |
| | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 8.89 | 7.73 | 10.1 | 0.58 | 1.16 | |
| Zinc | µmol/l | 37.1 | 29.7 | 44.5 | 3.70 | 7.40 | Colorimetric with deproteinisation |
| | µg/dl | 242 | 194 | 290 | 24.00 | 48.00 | |

Roche Cobas C111®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|----------------------------------|
| Albumin | g/l | 31.0 | 26.4 | 35.6 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.10 | 2.64 | 3.56 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 263 | 224 | 302 | 19.50 | 39.00 | Roche Integra AMP buffer 37°C |
| | U/l | 205 | 174 | 236 | 15.50 | 31.00 | Roche Integra AMP buffer 30°C |
| | U/l | 168 | 143 | 193 | 12.50 | 25.00 | Roche Integra AMP buffer 25°C |
| ALT (GPT) | U/l | 145 | 116 | 174 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 107 | 86 | 128 | 10.50 | 21.00 | Tris buffer without P5P 30°C |
| | U/l | 82 | 65 | 99 | 8.50 | 17.00 | Tris buffer without P5P 25°C |
| Amylase Total | U/l | 280 | 238 | 322 | 21.00 | 42.00 | Roche liquid stable pNPG7 37°C |
| AST (GOT) | U/l | 140 | 112 | 168 | 14.00 | 28.00 | Tris buffer without P5P 37°C |
| | U/l | 95 | 76 | 114 | 9.50 | 19.00 | Tris buffer without P5P 30°C |
| | U/l | 67 | 53 | 81 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bilirubin Direct | µmol/l | 29.8 | 23.5 | 36.1 | 3.15 | 6.30 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.74 | 1.37 | 2.11 | 0.19 | 0.37 | |
| | µmol/l | 29.3 | 23.1 | 35.5 | 3.10 | 6.20 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.71 | 1.35 | 2.07 | 0.18 | 0.36 | |
| | µmol/l | 29.0 | 22.9 | 35.1 | 3.05 | 6.10 | Diazo with Dichloroaniline (DCA) |
| | mg/dl | 1.70 | 1.34 | 2.06 | 0.18 | 0.36 | |
| Bilirubin Total | µmol/l | 79.4 | 62.8 | 96.0 | 8.30 | 16.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.64 | 3.67 | 5.61 | 0.49 | 0.97 | |
| | µmol/l | 78.6 | 62.1 | 95.1 | 8.25 | 16.50 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.60 | 3.63 | 5.57 | 0.49 | 0.97 | |



Roche Cobas C111®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------|--------|--------|------|------|-------|-------|---|
| Bilirubin Total | µmol/l | 78.3 | 61.8 | 94.8 | 8.25 | 16.50 | Diazonium ion |
| | mg/dl | 4.58 | 3.62 | 5.54 | 0.48 | 0.96 | |
| Calcium | mmol/l | 3.21 | 2.89 | 3.53 | 0.16 | 0.32 | Cresolphthalein complexone |
| | mg/dl | 12.9 | 11.6 | 14.2 | 0.65 | 1.30 | |
| | mmol/l | 3.15 | 2.83 | 3.47 | 0.16 | 0.32 | NM-BAPTA |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.54 | 6.56 | 8.52 | 0.49 | 0.98 | Cholesterol Oxidase |
| | mg/dl | 291 | 253 | 329 | 19.00 | 38.00 | |
| CK Total | U/l | 492 | 404 | 580 | 44.00 | 88.00 | CK-NAC (IFCC) 37°C |
| | U/l | 308 | 253 | 363 | 27.50 | 55.00 | CK-NAC (IFCC) 30°C |
| | U/l | 209 | 172 | 246 | 18.50 | 37.00 | CK-NAC (IFCC) 25°C |
| Creatinine | µmol/l | 365 | 292 | 438 | 36.50 | 73.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.12 | 3.30 | 4.94 | 0.41 | 0.82 | |
| | µmol/l | 373 | 298 | 448 | 37.50 | 75.00 | Roche Creatinine Plus |
| | mg/dl | 4.21 | 3.37 | 5.05 | 0.42 | 0.84 | |
| | µmol/l | 346 | 277 | 415 | 34.50 | 69.00 | Jaffe rate blanked |
| | mg/dl | 3.91 | 3.13 | 4.69 | 0.39 | 0.78 | |
| | µmol/l | 365 | 292 | 438 | 36.50 | 73.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.12 | 3.30 | 4.94 | 0.41 | 0.82 | |
| | µmol/l | 365 | 292 | 438 | 36.50 | 73.00 | Jaffe rate blanked compensated (-18 µmol/l) |
| | mg/dl | 4.12 | 3.30 | 4.94 | 0.41 | 0.82 | |
| gamma-GT | U/l | 171 | 145 | 197 | 13.00 | 26.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 135 | 114 | 156 | 10.50 | 21.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 106 | 89 | 123 | 8.50 | 17.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |



Roche Cobas C111®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| gamma-GT | U/l | 167 | 142 | 192 | 12.50 | 25.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 132 | 112 | 152 | 10.00 | 20.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 103 | 88 | 118 | 7.50 | 15.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.7 | 13.3 | 18.1 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 283 | 240 | 326 | 21.50 | 43.00 | |
| HDL - Cholesterol | mmol/l | 3.30 | 2.81 | 3.79 | 0.25 | 0.49 | Direct HDL PEGME |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| | mmol/l | 3.38 | 2.87 | 3.89 | 0.26 | 0.51 | Direct HDL Roche 3rd generation |
| | mg/dl | 130 | 111 | 149 | 9.50 | 19.00 | |
| Iron | µmol/l | 40.9 | 33.6 | 48.2 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 229 | 188 | 270 | 20.50 | 41.00 | |
| LD (LDH) | U/l | 378 | 321 | 435 | 28.50 | 57.00 | L->P IFCC 37°C |
| | U/l | 273 | 232 | 314 | 20.50 | 41.00 | L->P IFCC 30°C |
| | U/l | 192 | 163 | 221 | 14.50 | 29.00 | L->P IFCC 25°C |
| Lipase | U/l | 65 | 52 | 78 | 6.50 | 13.00 | Roche Colorimetric 37°C |
| Magnesium | mmol/l | 1.80 | 1.59 | 2.01 | 0.11 | 0.21 | Chlorphosphonazo III |
| | mg/dl | 4.37 | 3.86 | 4.88 | 0.26 | 0.51 | |
| Phosphate Inorganic | mmol/l | 2.27 | 1.93 | 2.61 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 7.04 | 5.98 | 8.10 | 0.53 | 1.06 | |
| Potassium | mmol/l | 6.16 | 5.66 | 6.66 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 47.2 | 37.8 | 56.6 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.72 | 3.78 | 5.66 | 0.47 | 0.94 | |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Triglycerides | mmol/l | 2.91 | 2.44 | 3.38 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 216 | 300 | 21.00 | 42.00 | |

Roche Cobas C111®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Triglycerides | mmol/l | 2.87 | 2.41 | 3.33 | 0.23 | 0.46 | L/G Kinase EP. no correction |
| | mg/dl | 254 | 213 | 295 | 20.50 | 41.00 | |
| | mmol/l | 2.58 | 2.17 | 2.99 | 0.21 | 0.41 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 228 | 192 | 264 | 18.00 | 36.00 | |
| Urea | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | Urease kinetic |
| | mg/dl | 119 | 101 | 137 | 9.00 | 18.00 | |
| | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | BUN |
| | mg/dl | 55.6 | 47.3 | 63.9 | 4.15 | 8.30 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.14 | 7.96 | 10.3 | 0.59 | 1.18 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | |
| | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 8.87 | 7.73 | 10.0 | 0.57 | 1.14 | |

Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 31.1 | 26.4 | 35.8 | 2.35 | 4.70 | Bromocresol Green |
| | g/dl | 3.11 | 2.64 | 3.58 | 0.24 | 0.47 | |
| | g/l | 31.0 | 26.4 | 35.6 | 2.30 | 4.60 | Bromocresol Purple |
| | g/dl | 3.10 | 2.64 | 3.56 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 245 | 208 | 282 | 18.50 | 37.00 | Roche Integra AMP buffer 37°C |
| | U/l | 191 | 162 | 220 | 14.50 | 29.00 | Roche Integra AMP buffer 30°C |
| | U/l | 157 | 133 | 181 | 12.00 | 24.00 | Roche Integra AMP buffer 25°C |
| | U/l | 255 | 216 | 294 | 19.50 | 39.00 | AMP optimised to IFCC 37°C |
| | U/l | 199 | 168 | 230 | 15.50 | 31.00 | AMP optimised to IFCC 30°C |
| | U/l | 163 | 138 | 188 | 12.50 | 25.00 | AMP optimised to IFCC 25°C |
| ALT (GPT) | U/l | 148 | 118 | 178 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 110 | 87 | 133 | 11.50 | 23.00 | Tris buffer without P5P 30°C |
| | U/l | 83 | 66 | 100 | 8.50 | 17.00 | Tris buffer without P5P 25°C |
| Amylase Pancreatic | U/l | 260 | 221 | 299 | 19.50 | 39.00 | Immunoinhibition EPS substrate 37°C |
| | U/l | 248 | 211 | 285 | 18.50 | 37.00 | Roche EPS Liquid 37°C |
| Amylase Total | U/l | 279 | 237 | 321 | 21.00 | 42.00 | Roche Integra 2-chloro-pNPG7 37°C |
| | U/l | 270 | 229 | 311 | 20.50 | 41.00 | Other Roche 2-chloro-pNPG7 37°C |
| | U/l | 270 | 229 | 311 | 20.50 | 41.00 | Roche liquid stable pNPG7 37°C |
| AST (GOT) | U/l | 143 | 114 | 172 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 97 | 77 | 117 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 68 | 54 | 82 | 7.00 | 14.00 | Tris buffer without P5P 25°C |

Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------------|--------|--------|------|------|--------|---------|--------------------------------------|
| Bicarbonate | mmol/l | 16.3 | 12.9 | 19.7 | 1.70 | 3.40 | Enzymatic |
| Bilirubin Direct | µmol/l | 27.1 | 21.4 | 32.8 | 2.85 | 5.70 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.59 | 1.25 | 1.93 | 0.17 | 0.34 | |
| | µmol/l | 28.2 | 22.3 | 34.1 | 2.95 | 5.90 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.65 | 1.30 | 2.00 | 0.18 | 0.35 | |
| | µmol/l | 27.8 | 21.9 | 33.7 | 2.95 | 5.90 | Roche JG factored |
| | mg/dl | 1.63 | 1.28 | 1.98 | 0.18 | 0.35 | |
| Bilirubin Total | µmol/l | 79.2 | 62.6 | 95.8 | 8.30 | 16.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.63 | 3.66 | 5.60 | 0.49 | 0.97 | |
| | µmol/l | 80.2 | 63.3 | 97.1 | 8.45 | 16.90 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.69 | 3.70 | 5.68 | 0.50 | 0.99 | |
| | µmol/l | 80.8 | 63.8 | 97.8 | 8.50 | 17.00 | Diazonium ion |
| | mg/dl | 4.73 | 3.73 | 5.73 | 0.50 | 1.00 | |
| Calcium | mmol/l | 3.14 | 2.83 | 3.45 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| | mmol/l | 3.16 | 2.85 | 3.47 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.7 | 11.4 | 14.0 | 0.65 | 1.30 | |
| | mmol/l | 3.14 | 2.83 | 3.45 | 0.16 | 0.31 | NM-BAPTA |
| | mg/dl | 12.6 | 11.3 | 13.9 | 0.65 | 1.30 | |
| Chloride | mmol/l | 111 | 102 | 120 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.50 | 6.53 | 8.47 | 0.49 | 0.97 | Cholesterol Oxidase |
| | mg/dl | 290 | 252 | 328 | 19.00 | 38.00 | |
| Cholinesterase | U/l | 5341 | 4273 | 6409 | 534.00 | 1068.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 498 | 408 | 588 | 45.00 | 90.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 312 | 255 | 369 | 28.50 | 57.00 | CK-NAC substrate start (DGKC) 30°C |
| | U/l | 212 | 173 | 251 | 19.50 | 39.00 | CK-NAC substrate start (DGKC) 25°C |

Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|------------|--------|--------|------|------|-------|-------|---|
| CK Total | U/l | 490 | 402 | 578 | 44.00 | 88.00 | CK-NAC (IFCC) 37°C |
| | U/l | 307 | 252 | 362 | 27.50 | 55.00 | CK-NAC (IFCC) 30°C |
| | U/l | 208 | 171 | 245 | 18.50 | 37.00 | CK-NAC (IFCC) 25°C |
| | U/l | 486 | 399 | 573 | 43.50 | 87.00 | Creatinine phosphate substrate Start 37°C |
| | U/l | 304 | 250 | 358 | 27.00 | 54.00 | Creatinine phosphate substrate Start 30°C |
| | U/l | 207 | 170 | 244 | 18.50 | 37.00 | Creatinine phosphate substrate Start 25°C |
| Creatinine | µmol/l | 386 | 309 | 463 | 38.50 | 77.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.36 | 3.49 | 5.23 | 0.44 | 0.87 | |
| | µmol/l | 393 | 315 | 471 | 39.00 | 78.00 | Roche Creatinine Plus |
| | mg/dl | 4.44 | 3.56 | 5.32 | 0.44 | 0.88 | |
| | µmol/l | 386 | 308 | 464 | 39.00 | 78.00 | Jaffe rate blanked |
| | mg/dl | 4.36 | 3.48 | 5.24 | 0.44 | 0.88 | |
| | µmol/l | 386 | 309 | 463 | 38.50 | 77.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| | mg/dl | 4.36 | 3.49 | 5.23 | 0.44 | 0.87 | |
| gamma-GT | U/l | 162 | 137 | 187 | 12.50 | 25.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 128 | 108 | 148 | 10.00 | 20.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 100 | 85 | 115 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |
| | U/l | 175 | 149 | 201 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 138 | 117 | 159 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 108 | 92 | 124 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| | U/l | 108 | 92 | 124 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.6 | 13.2 | 18.0 | 1.20 | 2.40 | Hexokinase |
| | mg/dl | 281 | 238 | 324 | 21.50 | 43.00 | |



Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|--------|--|
| Glucose | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 3.27 | 2.78 | 3.76 | 0.25 | 0.49 | Direct HDL PEGME |
| | mg/dl | 126 | 107 | 145 | 9.50 | 19.00 | |
| | mmol/l | 3.33 | 2.83 | 3.83 | 0.25 | 0.50 | Direct HDL Roche 3rd generation |
| | mg/dl | 129 | 109 | 149 | 10.00 | 20.00 | |
| Iron | µmol/l | 41.2 | 33.8 | 48.6 | 3.70 | 7.40 | Colorimetric with ppt. |
| | µg/dl | 230 | 189 | 271 | 20.50 | 41.00 | |
| | µmol/l | 41.0 | 33.7 | 48.3 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 229 | 188 | 270 | 20.50 | 41.00 | |
| Lactate | mmol/l | 5.15 | 4.22 | 6.08 | 0.47 | 0.93 | Colorimetric Lactate Oxidase |
| | mg/dl | 46.4 | 38.0 | 54.8 | 4.20 | 8.40 | |
| LD (LDH) | U/l | 368 | 313 | 423 | 27.50 | 55.00 | L->P 37°C |
| | U/l | 266 | 226 | 306 | 20.00 | 40.00 | L->P 30°C |
| | U/l | 187 | 159 | 215 | 14.00 | 28.00 | L->P 25°C |
| | U/l | 709 | 603 | 815 | 53.00 | 106.00 | P->L German methods 37°C |
| | U/l | 512 | 435 | 589 | 38.50 | 77.00 | P->L German methods 30°C |
| | U/l | 359 | 306 | 412 | 26.50 | 53.00 | P->L German methods 25°C |
| | U/l | 374 | 318 | 430 | 28.00 | 56.00 | L->P IFCC 37°C |
| | U/l | 270 | 230 | 310 | 20.00 | 40.00 | L->P IFCC 30°C |
| | U/l | 190 | 161 | 219 | 14.50 | 29.00 | L->P IFCC 25°C |
| Lipase | U/l | 57 | 45 | 69 | 6.00 | 12.00 | Roche Colorimetric 37°C |
| | U/l | 59 | 47 | 71 | 6.00 | 12.00 | Roche Turbidimetric with colipase 37°C |
| Lithium | mmol/l | 2.07 | 1.82 | 2.32 | 0.13 | 0.25 | Spectrophotometric |
| | mg/dl | 1.44 | 1.26 | 1.62 | 0.09 | 0.18 | |

Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|--------------------------------------|
| Magnesium | mmol/l | 1.78 | 1.56 | 2.00 | 0.11 | 0.22 | Atomic absorption |
| | mg/dl | 4.33 | 3.79 | 4.87 | 0.27 | 0.54 | |
| | mmol/l | 1.78 | 1.57 | 1.99 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.33 | 3.82 | 4.84 | 0.26 | 0.51 | |
| | mmol/l | 1.80 | 1.59 | 2.01 | 0.11 | 0.21 | Chlorphosphonazo III |
| | mg/dl | 4.37 | 3.86 | 4.88 | 0.26 | 0.51 | |
| Phosphate Inorganic | mmol/l | 2.25 | 1.91 | 2.59 | 0.17 | 0.34 | Phosphomolybdate enzymatic |
| | mg/dl | 6.98 | 5.92 | 8.04 | 0.53 | 1.06 | |
| | mmol/l | 2.22 | 1.89 | 2.55 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.88 | 5.86 | 7.90 | 0.51 | 1.02 | |
| Potassium | mmol/l | 6.32 | 5.82 | 6.82 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 46.4 | 37.1 | 55.7 | 4.65 | 9.30 | Biuret reaction end point |
| | g/dl | 4.64 | 3.71 | 5.57 | 0.47 | 0.93 | |
| | g/l | 46.2 | 36.9 | 55.5 | 4.65 | 9.30 | Biuret reaction kinetic |
| | g/dl | 4.62 | 3.69 | 5.55 | 0.47 | 0.93 | |
| Sodium | mmol/l | 161 | 153 | 169 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | µmol/l | 53.0 | 41.8 | 64.2 | 5.60 | 11.20 | FE+UIBC(saturation with iron) |
| | µg/dl | 296 | 234 | 358 | 31.00 | 62.00 | |
| Triglycerides | mmol/l | 2.92 | 2.45 | 3.39 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| | mmol/l | 2.93 | 2.46 | 3.40 | 0.24 | 0.47 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 259 | 218 | 300 | 20.50 | 41.00 | |
| | mmol/l | 2.94 | 2.47 | 3.41 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 260 | 219 | 301 | 20.50 | 41.00 | |
| | mmol/l | 2.88 | 2.42 | 3.34 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 255 | 214 | 296 | 20.50 | 41.00 | |

Roche Cobas C311®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|-------|---|
| UIBC | µmol/l | 12.4 | 10.2 | 14.6 | 1.10 | 2.20 | Direct Colorimetric |
| | µg/dl | 69.3 | 57.0 | 81.6 | 6.15 | 12.30 | |
| Urea | mmol/l | 20.8 | 17.7 | 23.9 | 1.55 | 3.10 | Urease end point |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | |
| | mmol/l | 20.5 | 17.5 | 23.5 | 1.50 | 3.00 | Urease kinetic |
| | mg/dl | 123 | 105 | 141 | 9.00 | 18.00 | |
| | mmol/l | 20.5 | 17.4 | 23.6 | 1.55 | 3.10 | BUN |
| | mg/dl | 57.5 | 48.9 | 66.1 | 4.30 | 8.60 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.00 | 7.85 | 10.2 | 0.58 | 1.15 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.11 | 7.91 | 10.3 | 0.60 | 1.20 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.02 | 7.85 | 10.2 | 0.59 | 1.17 | |

Roche Cobas c701 / c702 / c711

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 31.0 | 26.4 | 35.6 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.10 | 2.64 | 3.56 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 242 | 205 | 279 | 18.50 | 37.00 | Roche Integra AMP buffer 37°C |
| | U/l | 189 | 160 | 218 | 14.50 | 29.00 | Roche Integra AMP buffer 30°C |
| | U/l | 155 | 131 | 179 | 12.00 | 24.00 | Roche Integra AMP buffer 25°C |
| ALT (GPT) | U/l | 150 | 120 | 180 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| | U/l | 111 | 89 | 133 | 11.00 | 22.00 | Tris buffer without P5P 30°C |
| | U/l | 84 | 68 | 100 | 8.00 | 16.00 | Tris buffer without P5P 25°C |
| Amylase Pancreatic | U/l | 237 | 202 | 272 | 17.50 | 35.00 | Immunoinhibition EPS substrate 37°C |
| | U/l | 251 | 214 | 288 | 18.50 | 37.00 | Roche EPS Liquid 37°C |
| Amylase Total | U/l | 267 | 227 | 307 | 20.00 | 40.00 | Roche liquid stable pNPG7 37°C |
| AST (GOT) | U/l | 142 | 113 | 171 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| | U/l | 96 | 76 | 116 | 10.00 | 20.00 | Tris buffer without P5P 30°C |
| | U/l | 68 | 54 | 82 | 7.00 | 14.00 | Tris buffer without P5P 25°C |
| Bicarbonate | mmol/l | 18.2 | 14.4 | 22.0 | 1.90 | 3.80 | Enzymatic |
| Bilirubin Direct | µmol/l | 29.6 | 23.4 | 35.8 | 3.10 | 6.20 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 1.73 | 1.37 | 2.09 | 0.18 | 0.36 | |
| Bilirubin Total | µmol/l | 83.4 | 65.9 | 101 | 8.75 | 17.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.88 | 3.86 | 5.90 | 0.51 | 1.02 | |
| | µmol/l | 78.9 | 62.3 | 95.5 | 8.30 | 16.60 | Dichlorophenyl Diazonium (DPD) |
| | mg/dl | 4.62 | 3.64 | 5.60 | 0.49 | 0.98 | |

Roche Cobas c701 / c702 / c711

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------|------------|--------|------|------|--------|---------|---|
| Bilirubin Total | µmol/l | 79.9 | 63.1 | 96.7 | 8.40 | 16.80 | Diazonium ion |
| | mg/dl | 4.67 | 3.69 | 5.65 | 0.49 | 0.98 | |
| Calcium | mmol/l | 3.15 | 2.84 | 3.46 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.6 | 11.4 | 13.8 | 0.60 | 1.20 | |
| | mmol/l | 3.13 | 2.81 | 3.45 | 0.16 | 0.32 | NM-BAPTA |
| | mg/dl | 12.5 | 11.3 | 13.7 | 0.60 | 1.20 | |
| Chloride | mmol/l | 111 | 103 | 119 | 4.00 | 8.00 | ISE indirect |
| Cholesterol | mmol/l | 7.37 | 6.41 | 8.33 | 0.48 | 0.96 | Cholesterol Oxidase |
| | mg/dl | 284 | 247 | 321 | 18.50 | 37.00 | |
| Cholinesterase | U/l | 5431 | 4345 | 6517 | 543.00 | 1086.00 | Colorimetric Butyrylthiocholine 37°C |
| CK Total | U/l | 465 | 381 | 549 | 42.00 | 84.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 291 | 239 | 343 | 26.00 | 52.00 | CK-NAC substrate start (DGKC) 30°C |
| | U/l | 198 | 162 | 234 | 18.00 | 36.00 | CK-NAC substrate start (DGKC) 25°C |
| | U/l | 456 | 374 | 538 | 41.00 | 82.00 | CK-NAC (IFCC) 37°C |
| | U/l | 285 | 234 | 336 | 25.50 | 51.00 | CK-NAC (IFCC) 30°C |
| | U/l | 194 | 159 | 229 | 17.50 | 35.00 | CK-NAC (IFCC) 25°C |
| | Creatinine | µmol/l | 399 | 319 | 479 | 40.00 | 80.00 |
| mg/dl | | 4.51 | 3.60 | 5.42 | 0.46 | 0.91 | |
| µmol/l | | 388 | 310 | 466 | 39.00 | 78.00 | Jaffe rate blanked comp. (-26 µmol/l) |
| mg/dl | | 4.38 | 3.50 | 5.26 | 0.44 | 0.88 | |
| µmol/l | | 374 | 299 | 449 | 37.50 | 75.00 | IDMS traceable |
| mg/dl | | 4.23 | 3.38 | 5.08 | 0.43 | 0.85 | |
| gamma-GT | U/l | 159 | 135 | 183 | 12.00 | 24.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 37°C |
| | U/l | 125 | 106 | 144 | 9.50 | 19.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 30°C |
| | U/l | 98 | 83 | 113 | 7.50 | 15.00 | Gamma glutamyl.-3-carboxy-4-nitroanilide 25°C |

Roche Cobas c701 / c702 / c711

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|-------|---|
| gamma-GT | U/l | 175 | 149 | 201 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 138 | 117 | 159 | 10.50 | 21.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 30°C |
| | U/l | 108 | 92 | 124 | 8.00 | 16.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 25°C |
| Glucose | mmol/l | 15.5 | 13.2 | 17.8 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 279 | 238 | 320 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 3.37 | 2.87 | 3.87 | 0.25 | 0.50 | Direct HDL Roche 3rd generation |
| | mg/dl | 130 | 111 | 149 | 9.50 | 19.00 | |
| Iron | µmol/l | 40.2 | 33.0 | 47.4 | 3.60 | 7.20 | Colorimetric without ppt. |
| | µg/dl | 225 | 184 | 266 | 20.50 | 41.00 | |
| Lactate | mmol/l | 5.06 | 4.15 | 5.97 | 0.46 | 0.91 | Colorimetric Lactate Oxidase |
| | mg/dl | 45.6 | 37.4 | 53.8 | 4.10 | 8.20 | |
| LD (LDH) | U/l | 376 | 320 | 432 | 28.00 | 56.00 | L->P IFCC 37°C |
| | U/l | 271 | 231 | 311 | 20.00 | 40.00 | L->P IFCC 30°C |
| | U/l | 191 | 162 | 220 | 14.50 | 29.00 | L->P IFCC 25°C |
| Lipase | U/l | 57 | 46 | 68 | 5.50 | 11.00 | Roche Colorimetric 37°C |
| Magnesium | mmol/l | 1.77 | 1.56 | 1.98 | 0.11 | 0.21 | Xylidyl Blue |
| | mg/dl | 4.30 | 3.79 | 4.81 | 0.26 | 0.51 | |
| | mmol/l | 1.77 | 1.56 | 1.98 | 0.11 | 0.21 | Chlorphosphonazo III |
| | mg/dl | 4.30 | 3.79 | 4.81 | 0.26 | 0.51 | |
| Osmolality | mOsm/kg | 355 | 284 | 426 | 35.50 | 71.00 | Calculated |
| Phosphate Inorganic | mmol/l | 2.19 | 1.86 | 2.52 | 0.17 | 0.33 | Phosphomolybdate UV |
| | mg/dl | 6.79 | 5.77 | 7.81 | 0.51 | 1.02 | |
| Potassium | mmol/l | 6.33 | 5.82 | 6.84 | 0.26 | 0.51 | ISE method - indirect |
| Protein Total | g/l | 46.1 | 36.9 | 55.3 | 4.60 | 9.20 | Biuret reaction end point |
| | g/dl | 4.61 | 3.69 | 5.53 | 0.46 | 0.92 | |

Roche Cobas c701 / c702 / c711

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Sodium | mmol/l | 161 | 153 | 169 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | μmol/l | 53.4 | 42.2 | 64.6 | 5.60 | 11.20 | FE+UIBC(saturation with iron) |
| | μg/dl | 299 | 236 | 362 | 31.50 | 63.00 | |
| Triglycerides | mmol/l | 2.92 | 2.46 | 3.38 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 258 | 218 | 298 | 20.00 | 40.00 | |
| | mmol/l | 2.91 | 2.45 | 3.37 | 0.23 | 0.46 | Lipase/GPO-PAP 0.11mmol/l correction |
| | mg/dl | 258 | 217 | 299 | 20.50 | 41.00 | |
| UIBC | μmol/l | 12.8 | 10.5 | 15.1 | 1.15 | 2.30 | Direct Colorimetric |
| | μg/dl | 71.6 | 58.7 | 84.5 | 6.45 | 12.90 | |
| Urea | mmol/l | 20.1 | 17.1 | 23.1 | 1.50 | 3.00 | Urease kinetic |
| | mg/dl | 121 | 103 | 139 | 9.00 | 18.00 | |
| | mmol/l | 20.1 | 17.1 | 23.1 | 1.50 | 3.00 | BUN |
| | mg/dl | 56.4 | 47.9 | 64.9 | 4.25 | 8.50 | |
| Uric Acid (Urate) | mmol/l | 0.53 | 0.46 | 0.60 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.97 | 7.80 | 10.1 | 0.59 | 1.17 | |
| | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 8.94 | 7.78 | 10.1 | 0.58 | 1.16 | |
| | mmol/l | 0.52 | 0.46 | 0.59 | 0.03 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 8.80 | 7.64 | 9.96 | 0.58 | 1.16 | |

RX SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 30.1 | 25.5 | 34.7 | 2.30 | 4.60 | Bromocresol Green |
| | g/dl | 3.01 | 2.55 | 3.47 | 0.23 | 0.46 | |
| Alkaline Phosphatase | U/l | 474 | 403 | 545 | 35.50 | 71.00 | Diethanolamine buffer DEA 37°C |
| | U/l | 320 | 272 | 368 | 24.00 | 48.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 155 | 124 | 186 | 15.50 | 31.00 | Tris buffer without P5P 37°C |
| Amylase Pancreatic | U/l | 287 | 244 | 330 | 21.50 | 43.00 | Randox Liquid Ethylidene pNPG7 37°C |
| Amylase Total | U/l | 296 | 252 | 340 | 22.00 | 44.00 | Randox Liquid Ethylidene pNPG7 37°C |
| AST (GOT) | U/l | 144 | 115 | 173 | 14.50 | 29.00 | Tris buffer without P5P 37°C |
| Bicarbonate | mmol/l | 19.8 | 15.7 | 23.9 | 2.05 | 4.10 | Enzymatic |
| Bile Acids | µmol/l | 47.9 | 38.3 | 57.5 | 4.80 | 9.60 | 5th Generation Colorimetric |
| Bilirubin Direct | µmol/l | 31.2 | 24.7 | 37.7 | 3.25 | 6.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.83 | 1.44 | 2.22 | 0.20 | 0.39 | |
| | µmol/l | 30.1 | 23.8 | 36.4 | 3.15 | 6.30 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 1.76 | 1.39 | 2.13 | 0.19 | 0.37 | |
| Bilirubin Total | µmol/l | 90.5 | 71.5 | 110 | 9.50 | 19.00 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.29 | 4.18 | 6.40 | 0.56 | 1.11 | |
| | µmol/l | 94.0 | 74.3 | 114 | 9.85 | 19.70 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 5.50 | 4.35 | 6.65 | 0.58 | 1.15 | |
| Calcium | mmol/l | 3.15 | 2.84 | 3.46 | 0.16 | 0.31 | Arsenazo III |
| | mg/dl | 12.6 | 11.4 | 13.8 | 0.60 | 1.20 | |
| Chloride | mmol/l | 111 | 102 | 120 | 4.50 | 9.00 | ISE direct |

RX SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|--------|---|
| Cholesterol | mmol/l | 7.91 | 6.89 | 8.93 | 0.51 | 1.02 | Cholesterol Oxidase |
| | mg/dl | 305 | 266 | 344 | 19.50 | 39.00 | |
| CK Total | U/l | 493 | 405 | 581 | 44.00 | 88.00 | CK-NAC substrate start (DGKC) 37°C |
| | U/l | 528 | 433 | 623 | 47.50 | 95.00 | CK-NAC (IFCC) 37°C |
| Creatinine | µmol/l | 323 | 258 | 388 | 32.50 | 65.00 | Alkaline picrate no deproteinization |
| | mg/dl | 3.65 | 2.92 | 4.38 | 0.37 | 0.73 | |
| | µmol/l | 389 | 311 | 467 | 39.00 | 78.00 | Enzymatic UV method |
| | mg/dl | 4.40 | 3.51 | 5.29 | 0.45 | 0.89 | |
| gamma-GT | U/l | 183 | 156 | 210 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| Glucose | mmol/l | 15.5 | 13.2 | 17.8 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 279 | 238 | 320 | 20.50 | 41.00 | |
| | mmol/l | 16.0 | 13.6 | 18.4 | 1.20 | 2.40 | Glucose oxidase |
| | mg/dl | 288 | 245 | 331 | 21.50 | 43.00 | |
| Iron | µmol/l | 42.9 | 35.2 | 50.6 | 3.85 | 7.70 | Colorimetric without ppt. |
| | µg/dl | 240 | 197 | 283 | 21.50 | 43.00 | |
| Lactate | mmol/l | 4.97 | 4.08 | 5.86 | 0.45 | 0.89 | Colorimetric Lactate Oxidase |
| | mg/dl | 44.8 | 36.8 | 52.8 | 4.00 | 8.00 | |
| LD (LDH) | U/l | 774 | 658 | 890 | 58.00 | 116.00 | P->L German methods 37°C |
| | U/l | 345 | 293 | 397 | 26.00 | 52.00 | L->P IFCC 37°C |
| Lipase | U/l | 87 | 70 | 104 | 8.50 | 17.00 | Randox Colorimetric 37°C |
| Lithium | mmol/l | 2.04 | 1.80 | 2.28 | 0.12 | 0.24 | Colorimetric |
| | mg/dl | 1.42 | 1.25 | 1.59 | 0.09 | 0.17 | |
| Magnesium | mmol/l | 1.78 | 1.56 | 2.00 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.33 | 3.79 | 4.87 | 0.27 | 0.54 | |
| Phosphate Inorganic | mmol/l | 2.23 | 1.89 | 2.57 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 6.91 | 5.86 | 7.96 | 0.53 | 1.05 | |

RX SERIES®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Potassium | mmol/l | 6.13 | 5.64 | 6.62 | 0.25 | 0.49 | Enzymatic |
| | mmol/l | 6.09 | 5.60 | 6.58 | 0.25 | 0.49 | ISE method - direct |
| Protein Total | g/l | 47.1 | 37.7 | 56.5 | 4.70 | 9.40 | Biuret reaction end point |
| | g/dl | 4.71 | 3.77 | 5.65 | 0.47 | 0.94 | |
| Sodium | mmol/l | 156 | 148 | 164 | 4.00 | 8.00 | Enzymatic |
| | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | ISE method - direct |
| TIBC | μmol/l | 52.7 | 41.6 | 63.8 | 5.55 | 11.10 | Direct Colorimetric |
| | μg/dl | 295 | 233 | 357 | 31.00 | 62.00 | |
| Triglycerides | mmol/l | 2.87 | 2.41 | 3.33 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 254 | 213 | 295 | 20.50 | 41.00 | |
| Urea | mmol/l | 20.3 | 17.2 | 23.4 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 122 | 103 | 141 | 9.50 | 19.00 | |
| | mmol/l | 20.3 | 17.3 | 23.3 | 1.50 | 3.00 | BUN |
| | mg/dl | 57.0 | 48.5 | 65.5 | 4.25 | 8.50 | |
| Uric Acid (Urate) | mmol/l | 0.56 | 0.49 | 0.63 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.42 | 8.20 | 10.6 | 0.61 | 1.22 | |
| | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.27 | 8.06 | 10.5 | 0.61 | 1.21 | |

SIEMENS ADVIA 1200/1650/1800/2400®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|-------------------------------------|
| Albumin | g/l | 29.1 | 24.7 | 33.5 | 2.20 | 4.40 | Bromocresol Green |
| | g/dl | 2.91 | 2.47 | 3.35 | 0.22 | 0.44 | |
| Alkaline Phosphatase | U/l | 388 | 330 | 446 | 29.00 | 58.00 | Diethanolamine buffer DEA 37°C |
| | U/l | 271 | 230 | 312 | 20.50 | 41.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 160 | 128 | 192 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| Amylase Pancreatic | U/l | 260 | 221 | 299 | 19.50 | 39.00 | Immunoinhibition EPS substrate 37°C |
| Amylase Total | U/l | 280 | 238 | 322 | 21.00 | 42.00 | Siemens - blocked pNPG7 37°C |
| | U/l | 282 | 240 | 324 | 21.00 | 42.00 | Siemens - maltopenta/hexaoside 37°C |
| AST (GOT) | U/l | 152 | 122 | 182 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| Bicarbonate | mmol/l | 19.9 | 15.8 | 24.0 | 2.05 | 4.10 | Enzymatic |
| Bile Acids | µmol/l | 50.1 | 40.1 | 60.1 | 5.00 | 10.00 | Enzymatic Colorimetric |
| Bilirubin Direct | µmol/l | 24.6 | 19.4 | 29.8 | 2.60 | 5.20 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.44 | 1.13 | 1.75 | 0.16 | 0.31 | |
| | µmol/l | 29.3 | 23.1 | 35.5 | 3.10 | 6.20 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 1.71 | 1.35 | 2.07 | 0.18 | 0.36 | |
| Bilirubin Total | µmol/l | 88.3 | 69.8 | 107 | 9.25 | 18.50 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.17 | 4.08 | 6.26 | 0.55 | 1.09 | |
| | µmol/l | 90.7 | 71.7 | 110 | 9.50 | 19.00 | Oxidation to Biliverdin/Vanadate |
| | mg/dl | 5.31 | 4.19 | 6.43 | 0.56 | 1.12 | |
| Calcium | mmol/l | 3.09 | 2.78 | 3.40 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.1 | 13.7 | 0.65 | 1.30 | |

SIEMENS ADVIA 1200/1650/1800/2400®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods | |
|----------------|----------|--------|------|------|--------|---------|---|---|
| Calcium | mmol/l | 3.05 | 2.75 | 3.35 | 0.15 | 0.30 | Arsenazo III | |
| | mg/dl | 12.2 | 11.0 | 13.4 | 0.60 | 1.20 | | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect | |
| Cholesterol | mmol/l | 7.80 | 6.79 | 8.81 | 0.51 | 1.01 | Cholesterol Oxidase | |
| | mg/dl | 301 | 262 | 340 | 19.50 | 39.00 | | |
| Cholinesterase | U/l | 6381 | 5105 | 7657 | 638.00 | 1276.00 | Colorimetric Butyrylthiocholine 37°C | |
| CK Total | U/l | 452 | 371 | 533 | 40.50 | 81.00 | CK-NAC substrate start (DGKC) 37°C | |
| | U/l | 489 | 401 | 577 | 44.00 | 88.00 | CK-NAC (IFCC) 37°C | |
| Creatinine | µmol/l | 369 | 295 | 443 | 37.00 | 74.00 | Alkaline picrate no deproteinization | |
| | mg/dl | 4.17 | 3.33 | 5.01 | 0.42 | 0.84 | | |
| | µmol/l | 390 | 312 | 468 | 39.00 | 78.00 | Enzymatic UV method | |
| | mg/dl | 4.41 | 3.53 | 5.29 | 0.44 | 0.88 | | |
| | µmol/l | 387 | 310 | 464 | 38.50 | 77.00 | Creatinine PAP method | |
| | mg/dl | 4.37 | 3.50 | 5.24 | 0.44 | 0.87 | | |
| | µmol/l | 374 | 299 | 449 | 37.50 | 75.00 | Jaffe rate blanked | |
| | mg/dl | 4.23 | 3.38 | 5.08 | 0.43 | 0.85 | | |
| | µmol/l | 371 | 297 | 445 | 37.00 | 74.00 | Jaffe rate blanked comp. (-26 µmol/l) | |
| | mg/dl | 4.19 | 3.36 | 5.02 | 0.42 | 0.83 | | |
| | µmol/l | 369 | 295 | 443 | 37.00 | 74.00 | Jaffe rate blanked compensated (-18 µmol/l) | |
| | mg/dl | 4.17 | 3.33 | 5.01 | 0.42 | 0.84 | | |
| | gamma-GT | U/l | 175 | 149 | 201 | 13.00 | 26.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | Glucose | mmol/l | 15.3 | 13.0 | 17.6 | 1.15 | 2.30 | Hexokinase |
| mg/dl | | 276 | 234 | 318 | 21.00 | 42.00 | | |
| mmol/l | | 15.1 | 12.8 | 17.4 | 1.15 | 2.30 | Glucose oxidase | |
| mg/dl | | 272 | 231 | 313 | 20.50 | 41.00 | | |

SIEMENS ADVIA 1200/1650/1800/2400®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|--------|------------------------------|
| HDL - Cholesterol | mmol/l | 2.54 | 2.16 | 2.92 | 0.19 | 0.38 | Direct HDL Immunoseparation |
| | mg/dl | 98.0 | 83.4 | 113 | 7.30 | 14.60 | |
| | mmol/l | 2.54 | 2.16 | 2.92 | 0.19 | 0.38 | Direct Clearance Method |
| | mg/dl | 98.0 | 83.4 | 113 | 7.30 | 14.60 | |
| Iron | µmol/l | 43.4 | 35.6 | 51.2 | 3.90 | 7.80 | Colorimetric with ppt. |
| | µg/dl | 243 | 199 | 287 | 22.00 | 44.00 | |
| | µmol/l | 42.4 | 34.7 | 50.1 | 3.85 | 7.70 | Colorimetric without ppt. |
| | µg/dl | 237 | 194 | 280 | 21.50 | 43.00 | |
| Lactate | mmol/l | 4.99 | 4.09 | 5.89 | 0.45 | 0.90 | Colorimetric Lactate Oxidase |
| | mg/dl | 45.0 | 36.9 | 53.1 | 4.05 | 8.10 | |
| LD (LDH) | U/l | 368 | 313 | 423 | 27.50 | 55.00 | L->P 37°C |
| | U/l | 738 | 627 | 849 | 55.50 | 111.00 | P->L German methods 37°C |
| | U/l | 360 | 306 | 414 | 27.00 | 54.00 | L->P IFCC 37°C |
| Lipase | U/l | 79 | 64 | 94 | 7.50 | 15.00 | Other Colorimetric 37°C |
| Lithium | mmol/l | 1.96 | 1.72 | 2.20 | 0.12 | 0.24 | Spectrophotometric |
| | mg/dl | 1.36 | 1.19 | 1.53 | 0.09 | 0.17 | |
| Magnesium | mmol/l | 1.77 | 1.55 | 1.99 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.30 | 3.77 | 4.83 | 0.27 | 0.53 | |
| Phosphate Inorganic | mmol/l | 2.23 | 1.89 | 2.57 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 6.91 | 5.86 | 7.96 | 0.53 | 1.05 | |
| Potassium | mmol/l | 6.30 | 5.80 | 6.80 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 47.5 | 38.0 | 57.0 | 4.75 | 9.50 | Biuret reaction end point |
| | g/dl | 4.75 | 3.80 | 5.70 | 0.48 | 0.95 | |
| | g/l | 47.5 | 38.0 | 57.0 | 4.75 | 9.50 | Biuret reaction kinetic |
| | g/dl | 4.75 | 3.80 | 5.70 | 0.48 | 0.95 | |

SIEMENS ADVIA 1200/1650/1800/2400®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|-------|-------|-------|---|
| Sodium | mmol/l | 161 | 153 | 169 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | μmol/l | 50.6 | 40.0 | 61.2 | 5.30 | 10.60 | Removal of excess free iron |
| | μg/dl | 283 | 224 | 342 | 29.50 | 59.00 | |
| | μmol/l | 51.2 | 40.5 | 61.9 | 5.35 | 10.70 | FE+UIBC(saturation with iron) |
| | μg/dl | 286 | 226 | 346 | 30.00 | 60.00 | |
| | μmol/l | 48.0 | 37.9 | 58.1 | 5.05 | 10.10 | Direct Colorimetric |
| μg/dl | 268 | 212 | 324 | 28.00 | 56.00 | | |
| Triglycerides | mmol/l | 3.04 | 2.55 | 3.53 | 0.25 | 0.49 | Lipase/GPO-PAP no correction |
| | mg/dl | 269 | 226 | 312 | 21.50 | 43.00 | |
| | mmol/l | 2.93 | 2.46 | 3.40 | 0.24 | 0.47 | L/G Kinase EP. no correction |
| | mg/dl | 259 | 218 | 300 | 20.50 | 41.00 | |
| Urea | mmol/l | 20.8 | 17.6 | 24.0 | 1.60 | 3.20 | Urease end point |
| | mg/dl | 125 | 106 | 144 | 9.50 | 19.00 | |
| | mmol/l | 20.7 | 17.6 | 23.8 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 124 | 106 | 142 | 9.00 | 18.00 | |
| | mmol/l | 20.7 | 17.6 | 23.8 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.1 | 49.4 | 66.8 | 4.35 | 8.70 | |
| Uric Acid (Urate) | mmol/l | 0.55 | 0.48 | 0.62 | 0.04 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 9.22 | 8.03 | 10.4 | 0.60 | 1.19 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase Peroxidase with ascorbate oxidase @ 546nm |
| | mg/dl | 9.12 | 7.93 | 10.3 | 0.60 | 1.19 | |

SIEMENS DIMENSION EXL®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|-------|-------|--------|---------|--|
| Albumin | g/l | 27.8 | 23.7 | 31.9 | 2.05 | 4.10 | Bromocresol Purple |
| | g/dl | 2.78 | 2.37 | 3.19 | 0.21 | 0.41 | |
| Alkaline Phosphatase | U/l | 281 | 239 | 323 | 21.00 | 42.00 | Siemens Dimension AMP buffer 37°C |
| | U/l | 274 | 233 | 315 | 20.50 | 41.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 163 | 130 | 196 | 16.50 | 33.00 | Tris buffer with P5P 37°C |
| | U/l | 161 | 129 | 193 | 16.00 | 32.00 | Siemens Dade Standard Non IFCC Correlated 37°C |
| Amylase Total | U/l | 338 | 287 | 389 | 25.50 | 51.00 | Siemens 2-chloro-pNPG3 37°C |
| AST (GOT) | U/l | 189 | 151 | 227 | 19.00 | 38.00 | Tris buffer with P5P 37°C |
| | U/l | 189 | 152 | 226 | 18.50 | 37.00 | Siemens Dade Standard Non IFCC Correlated 37°C |
| Bicarbonate | mmol/l | 18.7 | 14.8 | 22.6 | 1.95 | 3.90 | Enzymatic |
| Bilirubin Direct | µmol/l | 17.5 | 13.9 | 21.1 | 1.80 | 3.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.02 | 0.813 | 1.23 | 0.10 | 0.21 | |
| Bilirubin Total | µmol/l | 84.4 | 66.7 | 102 | 8.85 | 17.70 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.94 | 3.90 | 5.98 | 0.52 | 1.04 | |
| Calcium | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.22 | 6.28 | 8.16 | 0.47 | 0.94 | Dimension-Siemens reagents |
| | mg/dl | 279 | 242 | 316 | 18.50 | 37.00 | |
| Cholinesterase | U/l | 9424 | 7539 | 10000 | 942.50 | 1885.00 | Colorimetric - Butyrythiochol. Dimension 37°C |
| CK Total | U/l | 466 | 382 | 550 | 42.00 | 84.00 | CK-NAC (IFCC) 37°C |


SIEMENS DIMENSION EXL®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|---|
| Creatinine | μmol/l | 396 | 317 | 475 | 39.50 | 79.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.47 | 3.58 | 5.36 | 0.45 | 0.89 | |
| | μmol/l | 386 | 309 | 463 | 38.50 | 77.00 | IDMS traceable |
| | mg/dl | 4.36 | 3.49 | 5.23 | 0.44 | 0.87 | |
| gamma-GT | U/l | 194 | 165 | 223 | 14.50 | 29.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 213 | 181 | 245 | 16.00 | 32.00 | Siemens Dimension (non IFCC) 37°C |
| Glucose | mmol/l | 15.6 | 13.3 | 17.9 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 281 | 240 | 322 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 3.51 | 2.99 | 4.03 | 0.26 | 0.52 | Direct HDL PPD |
| | mg/dl | 135 | 115 | 155 | 10.00 | 20.00 | |
| | mmol/l | 3.51 | 2.99 | 4.03 | 0.26 | 0.52 | Direct HDL PEGME |
| | mg/dl | 135 | 115 | 155 | 10.00 | 20.00 | |
| Iron | μmol/l | 39.7 | 32.6 | 46.8 | 3.55 | 7.10 | Colorimetric with ppt. |
| | μg/dl | 222 | 182 | 262 | 20.00 | 40.00 | |
| | μmol/l | 39.6 | 32.5 | 46.7 | 3.55 | 7.10 | Colorimetric without ppt. |
| | μg/dl | 221 | 182 | 260 | 19.50 | 39.00 | |
| Lactate | mmol/l | 5.04 | 4.14 | 5.94 | 0.45 | 0.90 | Colorimetric Lactate Oxidase |
| | mg/dl | 45.4 | 37.3 | 53.5 | 4.05 | 8.10 | |
| LD (LDH) | U/l | 359 | 305 | 413 | 27.00 | 54.00 | Siemens Dimension L-P Non IFCC 37°C |
| | U/l | 368 | 312 | 424 | 28.00 | 56.00 | L->P IFCC 37°C |
| Lipase | U/l | 261 | 209 | 313 | 26.00 | 52.00 | Colorimetric Siemens Dimension (LIPL Kit) 37°C |
| Magnesium | mmol/l | 1.77 | 1.56 | 1.98 | 0.11 | 0.21 | Methylthymol blue |
| | mg/dl | 4.30 | 3.79 | 4.81 | 0.26 | 0.51 | |
| Phosphate Inorganic | mmol/l | 2.29 | 1.95 | 2.63 | 0.17 | 0.34 | Phosphomolybdate enzymatic |
| | mg/dl | 7.10 | 6.05 | 8.15 | 0.53 | 1.05 | |


SIEMENS DIMENSION EXL®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-----------------------------|---------|--------|------|------|-------|-------|---|
| Phosphate Inorganic | mmol/l | 2.28 | 1.93 | 2.63 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.07 | 5.98 | 8.16 | 0.55 | 1.09 | |
| Potassium | mmol/l | 6.28 | 5.78 | 6.78 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 48.5 | 38.8 | 58.2 | 4.85 | 9.70 | Biuret reaction end point |
| | g/dl | 4.85 | 3.88 | 5.82 | 0.49 | 0.97 | |
| PSA Total | ng/ml = | 23.9 | 18.0 | 29.8 | 2.95 | 5.90 | Siemens Dimension |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Thyroid Stimulating Hormone | µU/ml = | 1.16 | 0.93 | 1.39 | 0.12 | 0.23 | |
| TIBC | µmol/l | 46.2 | 36.5 | 55.9 | 4.85 | 9.70 | FE+UIBC(saturation with iron) |
| | µg/dl | 258 | 204 | 312 | 27.00 | 54.00 | |
| | µmol/l | 45.5 | 35.9 | 55.1 | 4.80 | 9.60 | Direct Colorimetric |
| | µg/dl | 254 | 201 | 307 | 26.50 | 53.00 | |
| Triglycerides | mmol/l | 2.89 | 2.42 | 3.36 | 0.24 | 0.47 | Lipase/GPO-PAP no correction |
| | mg/dl | 256 | 214 | 298 | 21.00 | 42.00 | |
| | mmol/l | 2.90 | 2.44 | 3.36 | 0.23 | 0.46 | L/G Kinase EP. no correction |
| | mg/dl | 257 | 216 | 298 | 20.50 | 41.00 | |
| | mmol/l | 2.88 | 2.42 | 3.34 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 255 | 214 | 296 | 20.50 | 41.00 | |
| Urea | mmol/l | 21.0 | 17.9 | 24.1 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 126 | 108 | 144 | 9.00 | 18.00 | |
| | mmol/l | 21.0 | 17.9 | 24.1 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.9 | 50.1 | 67.7 | 4.40 | 8.80 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase catalase 340nm |
| | mg/dl | 9.12 | 7.95 | 10.3 | 0.59 | 1.17 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.11 | 7.93 | 10.3 | 0.59 | 1.18 | |

**SIEMENS DIMENSION EXL®**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|-------------------------------|
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Spectrophotometric at 280-290 |
| | mg/dl | 9.04 | 7.86 | 10.2 | 0.59 | 1.18 | |

SIEMENS DIMENSION RxL/Max/Xpand®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|-------|------|-------|-------|--|
| Albumin | g/l | 27.4 | 23.3 | 31.5 | 2.05 | 4.10 | Bromocresol Green |
| | g/dl | 2.74 | 2.33 | 3.15 | 0.21 | 0.41 | |
| | g/l | 27.4 | 23.3 | 31.5 | 2.05 | 4.10 | Bromocresol Purple |
| | g/dl | 2.74 | 2.33 | 3.15 | 0.21 | 0.41 | |
| Alkaline Phosphatase | U/l | 273 | 232 | 314 | 20.50 | 41.00 | Siemens Dimension AMP buffer 37°C |
| | U/l | 273 | 232 | 314 | 20.50 | 41.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 164 | 131 | 197 | 16.50 | 33.00 | Tris buffer with P5P 37°C |
| | U/l | 162 | 130 | 194 | 16.00 | 32.00 | Siemens Dade Standard Non IFCC Correlated 37°C |
| Amylase Total | U/l | 338 | 287 | 389 | 25.50 | 51.00 | Siemens 2-chloro-pNPG3 37°C |
| AST (GOT) | U/l | 192 | 153 | 231 | 19.50 | 39.00 | Tris buffer with P5P 37°C |
| | U/l | 190 | 152 | 228 | 19.00 | 38.00 | Siemens Dade Standard Non IFCC Correlated 37°C |
| Bicarbonate | mmol/l | 19.2 | 15.3 | 23.1 | 1.95 | 3.90 | Enzymatic |
| Bilirubin Direct | µmol/l | 17.4 | 13.8 | 21.0 | 1.80 | 3.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.02 | 0.807 | 1.23 | 0.11 | 0.21 | |
| Bilirubin Total | µmol/l | 84.5 | 66.7 | 102 | 8.90 | 17.80 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.94 | 3.90 | 5.98 | 0.52 | 1.04 | |
| Calcium | mmol/l | 3.09 | 2.78 | 3.40 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.1 | 13.7 | 0.65 | 1.30 | |
| Chloride | mmol/l | 115 | 106 | 124 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.15 | 6.22 | 8.08 | 0.47 | 0.93 | Dimension-Siemens reagents |
| | mg/dl | 276 | 240 | 312 | 18.00 | 36.00 | |


SIEMENS DIMENSION RxL/Max/Xpand®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|-------|--------|----------------|---|
| Cholinesterase | U/l | 9394 | 7515 | 10000 | 939.50 | 1879.00 | Colorimetric - Butyrythiochol. Dimension 37°C |
| CK Total | U/l | 465 | 381 | 549 | 42.00 | 84.00 | CK-NAC (IFCC) 37°C |
| | U/l | 469 | 384 | 554 | 42.50 | 85.00 | Dithioerythritol (DTE) IFCC correlated 37°C |
| Creatinine | µmol/l | 394 | 315 | 473 | 39.50 | 79.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.45 | 3.56 | 5.34 | 0.45 | 0.89 | |
| | µmol/l | 383 | 306 | 460 | 38.50 | 77.00 | Enzymatic UV method |
| | mg/dl | 4.33 | 3.46 | 5.20 | 0.44 | 0.87 | |
| | µmol/l | 381 | 305 | 457 | 38.00 | 76.00 | Creatinine PAP method |
| | mg/dl | 4.31 | 3.45 | 5.17 | 0.43 | 0.86 | |
| | µmol/l | 392 | 313 | 471 | 39.50 | 79.00 | Jaffe rate blanked |
| | mg/dl | 4.43 | 3.54 | 5.32 | 0.45 | 0.89 | |
| µmol/l | 396 | 317 | 475 | 39.50 | 79.00 | IDMS traceable | |
| mg/dl | 4.47 | 3.58 | 5.36 | 0.45 | 0.89 | | |
| gamma-GT | U/l | 189 | 161 | 217 | 14.00 | 28.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| | U/l | 209 | 177 | 241 | 16.00 | 32.00 | Siemens Dimension (non IFCC) 37°C |
| Glucose | mmol/l | 15.7 | 13.4 | 18.0 | 1.15 | 2.30 | Glucose dehydrogenase |
| | mg/dl | 283 | 241 | 325 | 21.00 | 42.00 | |
| | mmol/l | 15.5 | 13.2 | 17.8 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 279 | 238 | 320 | 20.50 | 41.00 | |
| HDL - Cholesterol | mmol/l | 3.38 | 2.87 | 3.89 | 0.26 | 0.51 | Direct HDL PPD |
| | mg/dl | 130 | 111 | 149 | 9.50 | 19.00 | |
| | mmol/l | 3.24 | 2.76 | 3.72 | 0.24 | 0.48 | Direct HDL Immunoseparation |
| | mg/dl | 125 | 107 | 143 | 9.00 | 18.00 | |
| | mmol/l | 3.43 | 2.92 | 3.94 | 0.26 | 0.51 | Direct HDL PEGME |
| | mg/dl | 132 | 113 | 151 | 9.50 | 19.00 | |


SIEMENS DIMENSION RxL/Max/Xpand®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|---------|--------|------|------|-------|-------|--|
| HDL - Cholesterol | mmol/l | 3.51 | 2.99 | 4.03 | 0.26 | 0.52 | Direct Clearance Method |
| | mg/dl | 135 | 115 | 155 | 10.00 | 20.00 | |
| Iron | µmol/l | 39.6 | 32.5 | 46.7 | 3.55 | 7.10 | Colorimetric with ppt. |
| | µg/dl | 221 | 182 | 260 | 19.50 | 39.00 | |
| | µmol/l | 39.4 | 32.3 | 46.5 | 3.55 | 7.10 | Colorimetric without ppt. |
| | µg/dl | 220 | 181 | 259 | 19.50 | 39.00 | |
| Lactate | mmol/l | 5.27 | 4.32 | 6.22 | 0.48 | 0.95 | Colorimetric Lactate Oxidase |
| | mg/dl | 47.5 | 38.9 | 56.1 | 4.30 | 8.60 | |
| | mmol/l | 5.12 | 4.20 | 6.04 | 0.46 | 0.92 | UV LDH |
| | mg/dl | 46.1 | 37.8 | 54.4 | 4.15 | 8.30 | |
| LD (LDH) | U/l | 357 | 303 | 411 | 27.00 | 54.00 | Siemens Dimension L-P Non IFCC 37°C |
| | U/l | 362 | 308 | 416 | 27.00 | 54.00 | L->P IFCC 37°C |
| Lipase | U/l | 265 | 213 | 317 | 26.00 | 52.00 | Colorimetric Siemens Dimension (LIPL Kit) 37°C |
| Magnesium | mmol/l | 1.76 | 1.54 | 1.98 | 0.11 | 0.22 | Xylidyl Blue |
| | mg/dl | 4.28 | 3.74 | 4.82 | 0.27 | 0.54 | |
| | mmol/l | 1.76 | 1.55 | 1.97 | 0.11 | 0.21 | Methylthymol blue |
| | mg/dl | 4.28 | 3.77 | 4.79 | 0.26 | 0.51 | |
| Osmolality | mOsm/kg | 353 | 282 | 424 | 35.50 | 71.00 | Calculated |
| Phosphate Inorganic | mmol/l | 2.24 | 1.90 | 2.58 | 0.17 | 0.34 | Phosphomolybdate enzymatic |
| | mg/dl | 6.94 | 5.89 | 7.99 | 0.53 | 1.05 | |
| | mmol/l | 2.24 | 1.90 | 2.58 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 6.94 | 5.89 | 7.99 | 0.53 | 1.05 | |
| Potassium | mmol/l | 6.19 | 5.70 | 6.68 | 0.25 | 0.49 | ISE method - indirect |
| Protein Total | g/l | 48.0 | 38.4 | 57.6 | 4.80 | 9.60 | Biuret reaction end point |
| | g/dl | 4.80 | 3.84 | 5.76 | 0.48 | 0.96 | |


SIEMENS DIMENSION RxL/Max/Xpand®
ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|-------|-------|---|
| Sodium | mmol/l | 158 | 150 | 166 | 4.00 | 8.00 | ISE method - indirect |
| TIBC | μmol/l | 45.8 | 36.2 | 55.4 | 4.80 | 9.60 | Removal of excess free iron |
| | μg/dl | 256 | 202 | 310 | 27.00 | 54.00 | |
| | μmol/l | 46.1 | 36.5 | 55.7 | 4.80 | 9.60 | FE+UIBC(saturation with iron) |
| | μg/dl | 258 | 204 | 312 | 27.00 | 54.00 | |
| | μmol/l | 45.4 | 35.9 | 54.9 | 4.75 | 9.50 | Direct Colorimetric |
| Triglycerides | mmol/l | 2.88 | 2.42 | 3.34 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 255 | 214 | 296 | 20.50 | 41.00 | |
| | mmol/l | 2.89 | 2.43 | 3.35 | 0.23 | 0.46 | L/G Kinase EP. no correction |
| | mg/dl | 256 | 215 | 297 | 20.50 | 41.00 | |
| Urea | mmol/l | 2.85 | 2.39 | 3.31 | 0.23 | 0.46 | Lipase/Glycerol Dehydrogenase |
| | mg/dl | 252 | 212 | 292 | 20.00 | 40.00 | |
| | mmol/l | 20.6 | 17.5 | 23.7 | 1.55 | 3.10 | Urease end point |
| | mg/dl | 124 | 105 | 143 | 9.50 | 19.00 | |
| Uric Acid (Urate) | mmol/l | 20.7 | 17.6 | 23.8 | 1.55 | 3.10 | Urease kinetic |
| | mg/dl | 124 | 106 | 142 | 9.00 | 18.00 | |
| | mmol/l | 20.7 | 17.6 | 23.8 | 1.55 | 3.10 | BUN |
| | mg/dl | 58.1 | 49.4 | 66.8 | 4.35 | 8.70 | |
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase catalase 340nm |
| | mg/dl | 9.04 | 7.86 | 10.2 | 0.59 | 1.18 | |
| | mmol/l | 0.53 | 0.46 | 0.60 | 0.03 | 0.07 | Uricase peroxidase with ascorbate oxidase |
| | mg/dl | 8.94 | 7.78 | 10.1 | 0.58 | 1.16 | |
| | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.00 | 7.83 | 10.2 | 0.59 | 1.17 | |

**SIEMENS DIMENSION RxL/Max/Xpand®**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|-------------------------------|
| Uric Acid (Urate) | mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | Spectrophotometric at 280-290 |
| | mg/dl | 8.99 | 7.81 | 10.2 | 0.59 | 1.18 | |

SIEMENS DIMENSION Vista®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|-------|------|-------|-------|---|
| Albumin | g/l | 28.2 | 24.0 | 32.4 | 2.10 | 4.20 | Bromocresol Purple |
| | g/dl | 2.82 | 2.40 | 3.24 | 0.21 | 0.42 | |
| Alkaline Phosphatase | U/l | 279 | 237 | 321 | 21.00 | 42.00 | AMP optimised to IFCC 37°C |
| ALT (GPT) | U/l | 157 | 126 | 188 | 15.50 | 31.00 | Tris buffer with P5P 37°C |
| Amylase Total | U/l | 329 | 280 | 378 | 24.50 | 49.00 | Siemens 2-chloro-pNPG3 37°C |
| AST (GOT) | U/l | 184 | 147 | 221 | 18.50 | 37.00 | Tris buffer with P5P 37°C |
| Bilirubin Direct | µmol/l | 19.2 | 15.1 | 23.3 | 2.05 | 4.10 | Diazo with Sulphanilic Acid |
| | mg/dl | 1.12 | 0.883 | 1.36 | 0.12 | 0.24 | |
| Bilirubin Total | µmol/l | 84.4 | 66.7 | 102 | 8.85 | 17.70 | Diazo with Sulphanilic Acid |
| | mg/dl | 4.94 | 3.90 | 5.98 | 0.52 | 1.04 | |
| Calcium | mmol/l | 3.10 | 2.79 | 3.41 | 0.16 | 0.31 | Cresolphthalein complexone |
| | mg/dl | 12.4 | 11.2 | 13.6 | 0.60 | 1.20 | |
| Chloride | mmol/l | 118 | 109 | 127 | 4.50 | 9.00 | ISE indirect |
| Cholesterol | mmol/l | 7.24 | 6.30 | 8.18 | 0.47 | 0.94 | Dimension-Siemens reagents |
| | mg/dl | 279 | 243 | 315 | 18.00 | 36.00 | |
| CK Total | U/l | 472 | 387 | 557 | 42.50 | 85.00 | CK-NAC (IFCC) 37°C |
| Creatinine | µmol/l | 405 | 324 | 486 | 40.50 | 81.00 | Alkaline picrate no deproteinization |
| | mg/dl | 4.58 | 3.66 | 5.50 | 0.46 | 0.92 | |
| gamma-GT | U/l | 193 | 164 | 222 | 14.50 | 29.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| Glucose | mmol/l | 15.2 | 12.9 | 17.5 | 1.15 | 2.30 | Hexokinase |
| | mg/dl | 274 | 232 | 316 | 21.00 | 42.00 | |

SIEMENS DIMENSION Vista®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|---------------------|--------|--------|------|------|-------|-------|--|
| HDL - Cholesterol | mmol/l | 3.59 | 3.05 | 4.13 | 0.27 | 0.54 | Direct HDL PEGME |
| | mg/dl | 139 | 118 | 160 | 10.50 | 21.00 | |
| Iron | µmol/l | 40.8 | 33.5 | 48.1 | 3.65 | 7.30 | Colorimetric without ppt. |
| | µg/dl | 228 | 187 | 269 | 20.50 | 41.00 | |
| Lactate | mmol/l | 5.31 | 4.35 | 6.27 | 0.48 | 0.96 | UV LDH |
| | mg/dl | 47.8 | 39.2 | 56.4 | 4.30 | 8.60 | |
| LD (LDH) | U/l | 378 | 321 | 435 | 28.50 | 57.00 | L->P IFCC 37°C |
| Lipase | U/l | 332 | 266 | 398 | 33.00 | 66.00 | Colorimetric Siemens Dimension (LIPL Kit) 37°C |
| Magnesium | mmol/l | 1.88 | 1.66 | 2.10 | 0.11 | 0.22 | Methylthymol blue |
| | mg/dl | 4.57 | 4.03 | 5.11 | 0.27 | 0.54 | |
| Phosphate Inorganic | mmol/l | 2.24 | 1.90 | 2.58 | 0.17 | 0.34 | Phosphomolybdate UV |
| | mg/dl | 6.94 | 5.89 | 7.99 | 0.53 | 1.05 | |
| Potassium | mmol/l | 6.20 | 5.70 | 6.70 | 0.25 | 0.50 | ISE method - indirect |
| Protein Total | g/l | 49.1 | 39.2 | 59.0 | 4.95 | 9.90 | Biuret reaction end point |
| | g/dl | 4.91 | 3.92 | 5.90 | 0.50 | 0.99 | |
| Sodium | mmol/l | 160 | 152 | 168 | 4.00 | 8.00 | ISE method - indirect |
| Triglycerides | mmol/l | 3.12 | 2.62 | 3.62 | 0.25 | 0.50 | Lipase/GPO-PAP no correction |
| | mg/dl | 276 | 232 | 320 | 22.00 | 44.00 | |
| Urea | mmol/l | 21.2 | 18.0 | 24.4 | 1.60 | 3.20 | Urease kinetic |
| | mg/dl | 127 | 108 | 146 | 9.50 | 19.00 | |
| | mmol/l | 21.2 | 18.0 | 24.4 | 1.60 | 3.20 | BUN |
| Uric Acid (Urate) | mg/dl | 59.5 | 50.6 | 68.4 | 4.45 | 8.90 | Uricase peroxidase no ascorbate oxidase |
| | mmol/l | 0.54 | 0.47 | 0.62 | 0.04 | 0.07 | |
| | mg/dl | 9.14 | 7.95 | 10.3 | 0.60 | 1.19 | Spectrophotometric at 280-290 |
| mmol/l | 0.54 | 0.47 | 0.61 | 0.04 | 0.07 | | |
| mg/dl | 9.02 | 7.85 | 10.2 | 0.59 | 1.17 | | |

VITALAB FLEXOR®

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|----------------------|--------|--------|------|------|-------|-------|---|
| Albumin | g/l | 33.0 | 28.1 | 37.9 | 2.45 | 4.90 | Bromocresol Green |
| | g/dl | 3.30 | 2.81 | 3.79 | 0.25 | 0.49 | |
| Alkaline Phosphatase | U/l | 418 | 356 | 480 | 31.00 | 62.00 | Diethanolamine buffer DEA 37°C |
| ALT (GPT) | U/l | 159 | 127 | 191 | 16.00 | 32.00 | Tris buffer without P5P 37°C |
| AST (GOT) | U/l | 149 | 119 | 179 | 15.00 | 30.00 | Tris buffer without P5P 37°C |
| Bilirubin Total | µmol/l | 98.2 | 77.6 | 119 | 10.30 | 20.60 | Diazo with Sulphanilic Acid |
| | mg/dl | 5.74 | 4.54 | 6.94 | 0.60 | 1.20 | |
| Calcium | mmol/l | 3.27 | 2.94 | 3.60 | 0.17 | 0.33 | Arsenazo III |
| | mg/dl | 13.1 | 11.8 | 14.4 | 0.65 | 1.30 | |
| Cholesterol | mmol/l | 7.59 | 6.60 | 8.58 | 0.50 | 0.99 | Cholesterol Oxidase |
| | mg/dl | 293 | 255 | 331 | 19.00 | 38.00 | |
| gamma-GT | U/l | 180 | 153 | 207 | 13.50 | 27.00 | Gamma Glutamyl-3-Carboxy-4-nitroanilide (IFCC) 37°C |
| Glucose | mmol/l | 14.9 | 12.6 | 17.2 | 1.15 | 2.30 | Glucose oxidase |
| | mg/dl | 268 | 227 | 309 | 20.50 | 41.00 | |
| Phosphate Inorganic | mmol/l | 2.34 | 1.99 | 2.69 | 0.18 | 0.35 | Phosphomolybdate UV |
| | mg/dl | 7.25 | 6.17 | 8.33 | 0.54 | 1.08 | |
| Protein Total | g/l | 52.2 | 41.7 | 62.7 | 5.25 | 10.50 | Biuret reaction end point |
| | g/dl | 5.22 | 4.17 | 6.27 | 0.53 | 1.05 | |
| Triglycerides | mmol/l | 2.86 | 2.40 | 3.32 | 0.23 | 0.46 | Lipase/GPO-PAP no correction |
| | mg/dl | 253 | 212 | 294 | 20.50 | 41.00 | |
| Urea | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | Urease kinetic |
| | mg/dl | 119 | 101 | 137 | 9.00 | 18.00 | |

**VITALAB FLEXOR®**

ASSAYED HUMAN SERA LEVEL 3 (HUM ASY CONTROL 3)

Lot. No. 983UE Cat. No. HE1532 / HS2611

Size 20 x 5ml / 5 x 5ml Expiry 2021-11-28

Range

| Analyte | unit | Target | low | high | 1SD | 2SD | methods |
|-------------------|--------|--------|------|------|------|------|---|
| Urea | mmol/l | 19.8 | 16.8 | 22.8 | 1.50 | 3.00 | BUN |
| | mg/dl | 55.6 | 47.3 | 63.9 | 4.15 | 8.30 | |
| Uric Acid (Urate) | mmol/l | 0.58 | 0.50 | 0.65 | 0.04 | 0.08 | Uricase peroxidase no ascorbate oxidase |
| | mg/dl | 9.73 | 8.47 | 11.0 | 0.63 | 1.26 | |