

ENBA NORMI
CONTROL FOR BIOCHEMISTRY
ASSAYED VALUES USING SYSTEM PACKS **LOT NO.: S022358** **EXPIRY: 12/2025**

| Test Short Name | ABBR. | PARAMETER | METHODOLOGY | UNITS | EM-180 | | |
|------------------------|-------|----------------------------|-----------------------------|--------|--------|---------------|-------|
| | | | | | VALUE | INTERVAL | 1 SD |
| ALBD | ALBD | Albumin | BCG | g/dl | 3.46 | 2.95-3.97 | 0.17 |
| ALPU | ALPU | Alkaline phosphatase | AMP | U/l | 117.52 | 94.03-141.01 | 7.83 |
| AMY | AMY | Amylase | CNPG3 | U/l | 57.02 | 45.62-68.42 | 3.80 |
| BDDCA | BDDCA | Bilirubin Direct | DCA | mg/dl | 0.75 | 0.57-0.93 | 0.06 |
| BIDD | BIDD | Bilirubin Direct | DIAZO | mg/dl | 0.64 | 0.49-0.79 | 0.05 |
| BIT | BIT | Bilirubin Total | DIAZO | mg/dl | 1.36 | 1.03-1.69 | 0.11 |
| BTDCA | BTDCA | Bilirubin Total | DCA | mg/dl | 1.46 | 1.1-1.82 | 0.12 |
| CA | CA | CALCIUM | ARSENAZO III | mg/dl | 8.97 | 7.62-10.32 | 0.45 |
| CHOL | CHOL | Cholesterol | CHOD-PAP | mg/dl | 143.81 | 122.24-165.38 | 7.19 |
| CKMBD | CKMBD | Creatinine kinase MB | IMMUNO | U/l | 43.49 | 32.63-54.35 | 3.62 |
| CKNac | CKNac | Creatinine kinase NAC | DGKC | U/l | 124.32 | 93.24-155.4 | 10.36 |
| Cl | Cl | Chloride | ISE DIRECT | mmol/l | 100.21 | 90.19-110.23 | 3.34 |
| ClO | ClO | Chloride | MERCURIC THIOCYANATE | mmol/l | 103.22 | 87.74-118.7 | 5.16 |
| CRE | CRE | Creatinine | JAFFE'S KINETIC | mg/dl | 1.15 | 0.91-1.39 | 0.08 |
| CRE | CRE | Creatinine | JAFFE'S KINETIC-COMPENSATED | mg/dl | 0.94 | 0.73-1.15 | 0.07 |
| CRENZ | CRENZ | Creatinine | ENZYMATIC | mg/dl | 1.10 | 0.92-1.28 | 0.06 |
| Fe | Fe | Iron | FERROZINE | µg/dl | 112.96 | 90.37-135.55 | 7.53 |
| GGT | GGT | Gamma-glutamyl transferase | GLUPA-C | U/l | 61.42 | 49.15-73.69 | 4.09 |
| GLHK/GLHKF/GLHKP/GLHKR | GLHK | Glucose | HEXOKINASE | mg/dl | 91.38 | 77.67-105.09 | 4.57 |
| GLU/GLUF/GLUPP/GLUR | GLU | Glucose | GOD-POD | mg/dl | 92.72 | 78.8-106.64 | 4.64 |
| GOTHL | GOTHL | SGOT-HL | IFCC | U/l | 36.31 | 29.05-43.57 | 2.42 |
| GPTHL | GPTHL | SGPT-HL | IFCC | U/l | 39.70 | 31.75-47.65 | 2.65 |
| HDLC | HDLC | HDL Cholesterol | DIRECT | mg/dl | 45.37 | 36.31-54.43 | 3.02 |
| K | K | Potassium | ISE DIRECT | mmol/l | 3.86 | 3.47-4.25 | 0.13 |
| LDH | LDH | Lactate dehydrogenase-P | DGKC | U/l | 317.64 | 254.1-381.18 | 21.18 |
| LDL | LDL | LDL Cholesterol | DIRECT | mg/dl | 87.28 | 69.82-104.74 | 5.82 |
| LIP | LIP | Lipase | ADVANCE HEMOGEN | U/l | 42.25 | 31.69-52.81 | 3.52 |
| MGBX | MGBX | Magnesium | XYLIDYL BLUE | mg/dl | 2.08 | 1.75-2.41 | 0.11 |
| Na | Na | Sodium | ISE DIRECT | mmol/l | 134.92 | 121.42-148.42 | 4.50 |
| PHOS | PHOS | Phosphorus | UV-MOLYBDATE | mg/dl | 4.39 | 3.73-5.05 | 0.22 |
| PRO | PRO | Total Protein | BIURET | g/dl | 5.56 | 4.45-6.67 | 0.37 |
| SGOTD | SGOTD | AST/SGOT | IFCC | U/l | 38.61 | 30.9-46.32 | 2.57 |
| SGPTD | SGPTD | ALT/SGPT | IFCC | U/l | 40.53 | 32.43-48.63 | 2.70 |
| TRIG | TRIG | Triglycerides | GPO | mg/dl | 112.22 | 95.39-129.05 | 5.61 |
| UA | UA | Uric Acid | URICASE | mg/dl | 5.74 | 4.87-6.61 | 0.29 |

Result Reprint

Report Type : Controls

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date | Mean | SD | Interval (3SD) |
|------|---------|-------------------|-------|-------------|------|---------|----------------------|---------|-------|-----------------|
| 1 | S022358 | Erba Norm S022358 | SGPTD | 38.1 U/L | | 2602 | 12-Feb-2024 11:42:46 | 40.530 | 2.700 | 32.43 - 48.63 |
| 2 | S022358 | Erba Norm S022358 | SGOTD | 36.3 U/L | | 2603 | 12-Feb-2024 11:43:04 | 38.610 | 2.570 | 30.9 - 46.32 |
| 3 | S022358 | Erba Norm S022358 | ALPU | 107 U/L | -1SD | 2604 | 12-Feb-2024 11:43:22 | 117.520 | 7.830 | 94.03 - 141.01 |
| 4 | S022358 | Erba Norm S022358 | BIDD | 0.66 mg/dL | | 2605 | 12-Feb-2024 11:43:40 | 0.640 | 0.050 | 0.49 - 0.79 |
| 5 | S022358 | Erba Norm S022358 | BIT | 1.27 mg/dL | | 2606 | 12-Feb-2024 11:43:58 | 1.360 | 0.110 | 1.03 - 1.69 |
| 6 | S022358 | Erba Norm S022358 | UREA | 38.1 mg/dL | +2SD | 2607 | 12-Feb-2024 11:44:16 | 34.310 | 1.720 | 29.15 - 39.47 |
| 7 | S022358 | Erba Norm S022358 | CRE | 1.19 mg/dL | | 2608 | 12-Feb-2024 11:44:34 | 1.150 | 0.080 | 0.91 - 1.39 |
| 8 | S022358 | Erba Norm S022358 | GLU | 90.2 mg/dL | | 2609 | 12-Feb-2024 11:44:52 | 92.720 | 4.640 | 78.8 - 106.64 |
| 9 | S022358 | Erba Norm S022358 | TRIG | 108.5 mg/dL | | 2610 | 12-Feb-2024 11:45:10 | 112.220 | 5.610 | 95.39 - 129.05 |
| 10 | S022358 | Erba Norm S022358 | CHOL | 146 mg/dL | | 2611 | 12-Feb-2024 11:45:28 | 143.810 | 7.190 | 122.24 - 165.38 |
| 11 | S022358 | Erba Norm S022358 | HDLC | 40.4 mg/dL | -1SD | 2612 | 12-Feb-2024 11:45:46 | 45.370 | 3.020 | 36.31 - 54.43 |
| 12 | S022358 | Erba Norm S022358 | LDL | 75.7 mg/dL | -1SD | 2613 | 12-Feb-2024 11:46:04 | 87.280 | 5.820 | 69.82 - 104.74 |
| 13 | S022358 | Erba Norm S022358 | UA | 5.0 mg/dL | -2SD | 2614 | 12-Feb-2024 11:46:22 | 5.740 | 0.290 | 4.87 - 6.61 |
| 14 | S022358 | Erba Norm S022358 | CA | 8.5 mg/dL | -1SD | 2615 | 12-Feb-2024 11:46:40 | 8.970 | 0.450 | 7.62 - 10.32 |

XL MULTICAL

| | | |
|----------|-------------|---------------------|
| Cat. No. | Pack Name | Packaging (Content) |
| XSYS0034 | XL MULTICAL | 4 x 3 ml |

(EN)



INTENDED USE

XL Multical is a lyophilized calibrator based on human serum. The concentrations and activities are suitable for calibration of clinical chemistry assays on automated clinical chemistry analyzers.

STORAGE AND HANDLING

Unreconstituted lyophilized calibrator is stable till the expiry date mentioned on the label when stored at -2-8°C.

Stability of the reconstituted calibrator:

| | |
|---------------------|----------------------------|
| at 15-25 °C | 8 hours |
| at 2-8 °C | 2 days |
| at (-25) - (-15) °C | 4 weeks (when frozen once) |

*Exceptions:

Stability of Total Bilirubin in the reconstituted calibrator (when stored protected from light):

| | |
|---------------------|----------------------------|
| at 15-25 °C | 6 hours |
| at 2-8 °C | 1 day |
| at (-25) - (-15) °C | 2 weeks (when frozen once) |

Stability of Direct Bilirubin in the reconstituted calibrator (when stored protected from light):

| | |
|---------------------|----------------------------|
| at 15-25 °C | 3 hours |
| at 2-8 °C | 8 hours |
| at (-25) - (-15) °C | 2 weeks (when frozen once) |

Store calibrator tightly capped and protected from light when not in use. Store vials upright to avoid splits and leakage. Seal the vials tightly after use to prevent evaporation.

RECONSTITUTION

- Remove the screw cap and rubber stopper from the vial to be used. Avoid loss of lyophilizate.
- Add exactly 3.0 ml of distilled/deionized water using a volumetric pipette.
- Replace the stopper and cap for each vial and dissolve the contents on a roller mixer completely by occasional gentle swirling within 30 minutes. Avoid the formation of foam.

VALUE ASSIGNMENT

The calibrator values were determined using the method mentioned in the enclosed value sheet. The calibrator values were obtained via single determination performed in different laboratories and the values assigned by a consensus of the results obtained by these laboratories.

LIMITATIONS

Eroneous results can occur from reconstitution inaccuracies and technical errors associated with the assay procedure. Do not use the reconstituted calibrator if there is visible evidence of microbial growth in the vial.

WARNING

Human source material used in the manufacturing of this product has been tested by FDA - approved methods and found non reactive for hepatitis B, surface antigen (HbsAg), antibody to Hepatitis C (HCV) and antibody to HIV1/2. The test procedures do not guarantee that all infectious agents will be detected. Because no test method can offer complete assurance that Hepatitis B virus, Hepatitis C virus and HIV 1/2 or other infectious agents are absent, the material should be handled as potentially infectious.

Lot No.: 2309047A

Expiry: 2025-04

ASSAYED VALUES USING XL SysPack REAGENT

| Short name | Parameter | Methodology | Unit | Value | Unit | Value |
|------------|----------------------------|------------------------------|--------|-------|--------|-------|
| ALB | Albumin | BCG | g/dl | 3.37 | g/l | 33.7 |
| ALP | Alkaline phosphatase | IFCC with AMP buffer | U/l | 320 | µkat/l | 5.34 |
| ALT/GPT | Alanine aminotransferase | IFCC without PDP | U/l | 91.0 | µkat/l | 1.52 |
| AMY | Amylase | CNPG3 | U/l | 187 | µkat/l | 3.12 |
| AST/GOT | Aspartate aminotransferase | IFCC without PDP | U/l | 96.4 | µkat/l | 1.61 |
| BID | Bilirubin Direct | Diazo (Walter & Gerarde) | mg/dl | 2.32 | µmol/l | 39.6 |
| | | DCA | mg/dl | 2.39 | µmol/l | 40.9 |
| BIT | Bilirubin Total | Diazo (Walter & Gerarde) | mg/dl | 4.83 | µmol/l | 82.5 |
| | | DCA | mg/dl | 4.49 | µmol/l | 76.8 |
| CA | Calcium | Arsenazo III | mg/dl | 10.6 | mmol/l | 2.64 |
| CHE | Cholinesterase | Butyrylthiocholine | U/l | 5160 | µkat/l | 86.2 |
| CHOL | Cholesterol | CHOD-PAP | mg/dl | 146 | mmol/l | 3.77 |
| CK | Creatine kinase NAC | DGKC | U/l | 373 | µkat/l | 6.23 |
| CK MB** | Creatine kinase MB | Inmunoinhibition | U/l | 426 | µkat/l | 7.11 |
| CL | Chloride | Mercuric Thiocyanate | mmol/l | 101 | mmol/l | 101 |
| CREA | Creatinine | Jaffe's kinetic | mg/dl | 3.98 | µmol/l | 352 |
| | | Enzymatic | mg/dl | 3.85 | µmol/l | 341 |
| GGT | Gamma-glutamyltransferase | Glupa-C | U/l | 104 | µkat/l | 1.74 |
| GLU | Glucose | GOD-POD / HK G6P-DH | mg/dl | 200 | mmol/l | 11.1 |
| LDH | Lactate dehydrogenase | DGKC | U/l | 500 | µkat/l | 8.34 |
| LIP | Lipase | Enzymatic colorimetric test | U/l | 92.9 | µkat/l | 1.55 |
| MG | Magnesium | Xylydyl Blue | mg/dl | 2.72 | mmol/l | 1.12 |
| PHOS | Phosphorus | Ammonium Molybdate UV | mg/dl | 5.52 | mmol/l | 1.78 |
| TG | Triglycerides | GPO-Trinder (single reagent) | mg/dl | 138 | mmol/l | 1.56 |
| | | GPO-Trinder (two reagents) | mg/dl | 135 | mmol/l | 1.53 |
| TP | Total Protein | Buret | g/dl | 4.88 | g/l | 48.8 |
| UA | Uric Acid | Uricase-Trinder | mg/dl | 5.46 | µmol/l | 325 |
| | | Urease - GLDH, Kinetic | mg/dl | 101 | mmol/l | 16.8 |

**Higher CK-MB to total CK ratio is due to the atypical ratio of the individual isoenzyme fractions.

NOTE

Values for XL analysers are now available on websites:

www.erbalachema.com

- Product Support

-XL-analysers: Calibrator/control values for uploading

USED SYMBOLS

LOT Lot Number

REF Catalogue Number

EXP Expiry Date

IVD In vitro Diagnostics

M Manufacturer

ST Storage Temperature

I See Instruction for Use

CONT Content



N/0623AM/INT
70833401

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e-mail: diagnostics@erba.com, www.erbamannheim.com
Date of revision: 15. 9. 2023



Result Reprint

Report Type : Calibration

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|----------|-------------------|-------|-------------|------|---------|---------------------|
| 1 | ERBA | Blank DW | SGPTD | -0.0004 - | | 2195 | 1-Feb-2024 12:23:15 |
| 2 | ERBA | Blank DW | SGPTD | -0.0001 - | | 2196 | 1-Feb-2024 12:23:33 |
| 3 | ERBA | Blank DW | SGPTD | -0.0001 - | | 2197 | 1-Feb-2024 12:23:51 |
| 4 | 2309047A | Multical 2309047A | SGPTD | -0.0341 - | | 2198 | 1-Feb-2024 12:24:09 |
| 5 | 2309047A | Multical 2309047A | SGPTD | -0.0342 - | | 2199 | 1-Feb-2024 12:24:27 |
| 6 | 2309047A | Multical 2309047A | SGPTD | -0.0338 - | | 2200 | 1-Feb-2024 12:24:45 |
| 7 | ERBA | Blank DW | SGOTD | -0.0001 - | | 2202 | 1-Feb-2024 12:25:21 |
| 8 | ERBA | Blank DW | SGOTD | -0.0004 - | | 2203 | 1-Feb-2024 12:25:39 |
| 9 | ERBA | Blank DW | SGOTD | 0.0000 - | | 2204 | 1-Feb-2024 12:25:57 |
| 10 | 2309047A | Multical 2309047A | SGOTD | -0.0356 - | | 2205 | 1-Feb-2024 12:26:16 |
| 11 | 2309047A | Multical 2309047A | SGOTD | -0.0354 - | | 2206 | 1-Feb-2024 12:26:34 |
| 12 | 2309047A | Multical 2309047A | SGOTD | -0.0360 - | | 2207 | 1-Feb-2024 12:26:52 |
| 13 | ERBA | Blank DW | ALPU | 0.0004 - | | 2209 | 1-Feb-2024 12:27:28 |
| 14 | ERBA | Blank DW | ALPU | 0.0004 - | | 2210 | 1-Feb-2024 12:27:46 |
| 15 | ERBA | Blank DW | ALPU | 0.0004 - | | 2211 | 1-Feb-2024 12:28:04 |
| 16 | 2309047A | Multical 2309047A | ALPU | 0.0704 - | | 2212 | 1-Feb-2024 12:28:22 |
| 17 | 2309047A | Multical 2309047A | ALPU | 0.0708 - | | 2213 | 1-Feb-2024 12:28:40 |

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Result Reprint

Report Type : Calibration

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|----------|-------------------|------|-------------|------|---------|---------------------|
| 18 | 2309047A | Multical 2309047A | ALPU | 0.0709 - | | 2214 | 1-Feb-2024 12:28:58 |
| 19 | ERBA | Blank DW | BIDD | 0.0006 - | | 2216 | 1-Feb-2024 12:29:34 |
| 20 | ERBA | Blank DW | BIDD | 0.0005 - | | 2217 | 1-Feb-2024 12:29:52 |
| 21 | ERBA | Blank DW | BIDD | 0.0004 - | | 2218 | 1-Feb-2024 12:30:10 |
| 22 | 2309047A | Multical 2309047A | BIDD | 0.0995 - | | 2219 | 1-Feb-2024 12:30:28 |
| 23 | 2309047A | Multical 2309047A | BIDD | 0.0998 - | | 2220 | 1-Feb-2024 12:30:46 |
| 24 | 2309047A | Multical 2309047A | BIDD | 0.0985 - | | 2221 | 1-Feb-2024 12:31:04 |
| 25 | ERBA | Blank DW | BIT | 0.0009 - | | 2223 | 1-Feb-2024 12:31:41 |
| 26 | ERBA | Blank DW | BIT | 0.0009 - | | 2224 | 1-Feb-2024 12:31:59 |
| 27 | ERBA | Blank DW | BIT | 0.0012 - | | 2225 | 1-Feb-2024 12:32:17 |
| 28 | 2309047A | Multical 2309047A | BIT | 0.1868 - | | 2226 | 1-Feb-2024 12:32:35 |
| 29 | 2309047A | Multical 2309047A | BIT | 0.1869 - | | 2227 | 1-Feb-2024 12:32:53 |
| 30 | 2309047A | Multical 2309047A | BIT | 0.1867 - | | 2228 | 1-Feb-2024 12:33:11 |
| 31 | ERBA | Blank DW | UREA | -0.0074 - | | 2230 | 1-Feb-2024 12:33:47 |
| 32 | ERBA | Blank DW | UREA | -0.0077 - | | 2231 | 1-Feb-2024 12:34:05 |
| 33 | ERBA | Blank DW | UREA | -0.0070 - | | 2232 | 1-Feb-2024 12:34:23 |
| 34 | 2309047A | Multical 2309047A | UREA | -0.1454 - | | 2233 | 1-Feb-2024 12:34:41 |

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Result Reprint

Report Type : Calibration

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|----------|-------------------|------|-------------|------|---------|---------------------|
| 35 | 2309047A | Multical 2309047A | UREA | -0.1424 - | | 2234 | 1-Feb-2024 12:34:59 |
| 36 | 2309047A | Multical 2309047A | UREA | -0.1437 - | | 2235 | 1-Feb-2024 12:35:17 |
| 37 | ERBA | Blank DW | CRE | 0.0013 - | | 2237 | 1-Feb-2024 12:35:53 |
| 38 | ERBA | Blank DW | CRE | 0.0010 - | | 2238 | 1-Feb-2024 12:36:11 |
| 39 | ERBA | Blank DW | CRE | 0.0011 - | | 2239 | 1-Feb-2024 12:36:29 |
| 40 | 2309047A | Multical 2309047A | CRE | 0.0452 - | | 2240 | 1-Feb-2024 12:36:47 |
| 41 | 2309047A | Multical 2309047A | CRE | 0.0457 - | | 2241 | 1-Feb-2024 12:37:05 |
| 42 | 2309047A | Multical 2309047A | CRE | 0.0448 - | | 2242 | 1-Feb-2024 12:37:23 |
| 43 | ERBA | Blank DW | GLU | 0.0489 - | | 2244 | 1-Feb-2024 12:38:00 |
| 44 | ERBA | Blank DW | GLU | 0.0440 - | | 2245 | 1-Feb-2024 12:38:18 |
| 45 | ERBA | Blank DW | GLU | 0.0435 - | | 2246 | 1-Feb-2024 12:38:36 |
| 46 | 2309047A | Multical 2309047A | GLU | 0.7554 - | | 2247 | 1-Feb-2024 12:38:53 |
| 47 | 2309047A | Multical 2309047A | GLU | 0.7501 - | | 2248 | 1-Feb-2024 12:39:11 |
| 48 | 2309047A | Multical 2309047A | GLU | 0.7465 - | | 2249 | 1-Feb-2024 12:39:30 |
| 49 | ERBA | Blank DW | TRIG | 0.0267 - | | 2251 | 1-Feb-2024 12:40:06 |
| 50 | ERBA | Blank DW | TRIG | 0.0259 - | | 2252 | 1-Feb-2024 12:40:24 |
| 51 | ERBA | Blank DW | TRIG | 0.0249 - | | 2253 | 1-Feb-2024 12:40:42 |

Result Reprint

Report Type : Calibration

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|----------|-------------------|------|-------------|------|---------|---------------------|
| 52 | 2309047A | Multical 2309047A | TRIG | 0.2536 - | | 2254 | 1-Feb-2024 12:41:00 |
| 53 | 2309047A | Multical 2309047A | TRIG | 0.2533 - | | 2255 | 1-Feb-2024 12:41:18 |
| 54 | 2309047A | Multical 2309047A | TRIG | 0.2536 - | | 2256 | 1-Feb-2024 12:41:36 |
| 55 | ERBA | Blank DW | CHOL | 0.0385 - | | 2258 | 1-Feb-2024 12:42:12 |
| 56 | ERBA | Blank DW | CHOL | 0.0361 - | | 2259 | 1-Feb-2024 12:42:30 |
| 57 | ERBA | Blank DW | CHOL | 0.0370 - | | 2260 | 1-Feb-2024 12:42:48 |
| 58 | 2309047A | Multical 2309047A | CHOL | 0.2846 - | | 2261 | 1-Feb-2024 12:43:06 |
| 59 | 2309047A | Multical 2309047A | CHOL | 0.2826 - | | 2262 | 1-Feb-2024 12:43:24 |
| 60 | 2309047A | Multical 2309047A | CHOL | 0.2826 - | | 2263 | 1-Feb-2024 12:43:42 |
| 61 | ERBA | Blank DW | UA | 0.0021 - | | 2265 | 1-Feb-2024 12:44:19 |
| 62 | ERBA | Blank DW | UA | 0.0042 - | | 2266 | 1-Feb-2024 12:44:37 |
| 63 | ERBA | Blank DW | UA | 0.0034 - | | 2267 | 1-Feb-2024 12:44:55 |
| 64 | 2309047A | Multical 2309047A | UA | 0.0897 - | | 2268 | 1-Feb-2024 12:45:13 |
| 65 | 2309047A | Multical 2309047A | UA | 0.0881 - | | 2269 | 1-Feb-2024 12:45:31 |
| 66 | 2309047A | Multical 2309047A | UA | 0.0881 - | | 2270 | 1-Feb-2024 12:45:49 |
| 67 | ERBA | Blank DW | CA | 0.1469 - | | 2272 | 1-Feb-2024 12:47:19 |
| 68 | ERBA | Blank DW | CA | 0.1471 - | | 2273 | 1-Feb-2024 12:47:37 |

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Result Reprint

Report Type : Calibration

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|----------|-------------------|------|-------------|------|---------|---------------------|
| 69 | ERBA | Blank DW | CA | 0.1482 - | | 2274 | 1-Feb-2024 12:47:55 |
| 70 | 2309047A | Multical 2309047A | CA | 0.4978 - | | 2275 | 1-Feb-2024 12:48:13 |
| 71 | 2309047A | Multical 2309047A | CA | 0.4931 - | | 2276 | 1-Feb-2024 12:48:31 |
| 72 | 2309047A | Multical 2309047A | CA | 0.4955 - | | 2277 | 1-Feb-2024 12:48:49 |

Print Date

01-Feb-2024

Result Reprint

Report Type : Calibration 15-Feb-2024

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|---------|-----------------|------|-------------|------|---------|----------------------|
| 1 | ERBA | Blank DW | LDL | 0.0008 - | | 2750 | 15-Feb-2024 13:17:21 |
| 2 | ERBA | Blank DW | LDL | 0.0006 - | | 2751 | 15-Feb-2024 13:17:40 |
| 3 | ERBA | Blank DW | LDL | 0.0003 - | | 2752 | 15-Feb-2024 13:17:58 |
| 4 | S112374 | LDL Callibrator | LDL | 0.0734 - | | 2753 | 15-Feb-2024 13:18:16 |
| 5 | S112374 | LDL Callibrator | LDL | 0.0731 - | | 2754 | 15-Feb-2024 13:18:34 |
| 6 | S112374 | LDL Callibrator | LDL | 0.0728 - | | 2755 | 15-Feb-2024 13:18:52 |
| 7 | ERBA | Blank DW | HDLC | 0.0057 - | | 2761 | 15-Feb-2024 13:54:27 |
| 8 | ERBA | Blank DW | HDLC | 0.0053 - | | 2762 | 15-Feb-2024 13:54:45 |
| 9 | ERBA | Blank DW | HDLC | 0.0054 - | | 2763 | 15-Feb-2024 13:55:03 |
| 10 | S112374 | LDL Callibrator | HDLC | 0.0432 - | | 2764 | 15-Feb-2024 13:55:21 |
| 11 | S112374 | LDL Callibrator | HDLC | 0.0430 - | | 2765 | 15-Feb-2024 13:55:39 |
| 12 | S112374 | LDL Callibrator | HDLC | 0.0430 - | | 2766 | 15-Feb-2024 13:55:57 |
| 13 | ERBA | Blank DW | LDL | 0.0012 - | | 2768 | 15-Feb-2024 13:56:33 |
| 14 | ERBA | Blank DW | LDL | 0.0007 - | | 2769 | 15-Feb-2024 13:56:51 |
| 15 | ERBA | Blank DW | LDL | 0.0005 - | | 2770 | 15-Feb-2024 13:57:09 |
| 16 | S112374 | LDL Callibrator | LDL | 0.0729 - | | 2771 | 15-Feb-2024 13:57:27 |
| 17 | S112374 | LDL Callibrator | LDL | 0.0725 - | | 2772 | 15-Feb-2024 13:57:45 |

Result Reprint

Report Type : Calibration 15-Feb-2024

| Sr # | Lot # | Consumable | Test | Result Unit | Flag | Curve # | Result Date |
|------|---------|-----------------|------|-------------|------|---------|----------------------|
| 18 | S112374 | LDL Callibrator | LDL | 0.0718 - | | 2773 | 15-Feb-2024 13:58:03 |



CERTIFICATE OF CALIBRATION/ VERIFICATION

Customer Name: Regional Research Institute of Unani Medicine, Kharghar, Navi Mumbai

Model: Fully Automated Bio-Chemistry Analyzer-EM 200

Serial No: V2001492

Calibration Date: 08-11-2023

Next Calibration due on before : 08-11-2024

Calibrator Used: Multical, Lot Number:2309047A, Expiry Date: April, 2025

Quality Control Used: ERBA NORM-Lot Number:S022358,
Expiry Date: December, 2025

This is to certify that the above mentioned instrument has been verified of calibration according to the procedures provided by the manufacturer -

General Parameters:

| Parameter | Measured Value | Acceptable Range | |
|---|------------------------------------|------------------|------|
| Line Voltage | 231V | 230 V +/- 5% | Pass |
| Logic Voltage | 5.0 V | 4.9 V to 5.1 V | Pass |
| Lamp Voltage | 12.0 V | 11.8 V to 12.2 V | Pass |
| Flow cell Temperature | 37.0 deg | 37 +/- 0.5 | Pass |
| 45 Cuvette blank value for for all filter | Enclose valuesheet for all cuvette | Abs 0.02-0.2 | Pass |



Photometer Filter Gain Levels:

| s.no | Filter Value in nm | Filter Gain in mv | Acceptable Range of gain |
|------|--------------------|-------------------|--------------------------|
| | 340 | 565 | 350 mv to 900 mv |
| | 405 | 542 | 350 mv to 900 mv |
| | 505 | 533 | 350 mv to 900 mv |
| | 546 | 513 | 350 mv to 900 mv |
| | 578 | 491 | 350 mv to 900 mv |
| | 600 | 495 | 350 mv to 900 mv |
| | 660 | 471 | 350 mv to 900 mv |
| | 700 | 463 | 350 mv to 900 mv |

*D. N. V.
Gadgil*

Technical Service Department

Transasia Bio-medical Limited