# TRANSASIA BIOMEDICALS LIMITED INSTALLATION QUALIFICATION Instrument ID

Clinical Chemistry Analyzer **Instrument Name** 

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|                 | INSTALLATION QUALIFIC       | CATION        |    | IKANANIA          |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | g. | Bio-Medicals Ltd. |

#### 1.0 PRE APPROVAL

# 1.1 Prepared By

| Name     | Designation | Signature | Date    |
|----------|-------------|-----------|---------|
| 131. N.m | 56. Asm     | 033       | 12/4/21 |

# 1.2 Checked By

| Name     | Designation | Signature | Date    |
|----------|-------------|-----------|---------|
| Bim. N.D | 578. Asm    | CAB.      | 12/4/21 |
|          |             |           | ,       |
|          |             | ù         |         |

# 1.3 Approved By

| Name    | Designation | Signature                               | Date    |
|---------|-------------|---|---------|
| BIMINIO | 56. Asn     | (1) (1) (1) (1) (1) (1) (1) (1) (1) (1) | 12/4/21 |

Note: After the Pre-Approval, this document is effective for the execution.

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| INSTALLATION QUALIFICATION |                             |               |  |                   |
| Instrument Name            | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

#### 2.0 OBJECTIVE

The objective of this document is to provide an outline for the inspection of EM 200 (Bio-Chemistry Random Analyzer) and to verify that the following boundaries:

- o Each Installed subcomponent complies with the engineering design and instrument data sheet / design specifications & manufacturer's recommendations.
- o To ensure that all the safety features are defined before the start up of operational qualification exercise.
- The system meets the current regulatory requirements.
- o To identify the Standard operating procedures for Operational Qualification.

#### 3.0 SCOPE

The scope of this protocol is to outline procedure for Installation qualification of the subjected instrument within the following boundaries:

- Identification and verification of its Major components / Accessories
- o Identification, Classification and Verification of Process Control Instruments / Gauges / Devices
- o Identification and verification of Material of Construction
- Identification and verification of Supporting Utilities
- Identification of Standard Operating Procedures
- Identification and Verification of Documents

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| Instrument Name            | Clinical Chemistry Analyzer | Instrument ID |  | 510-Medicals Liu. |

# 4.0 EXECUTION TEAM

| Name           | Department                      | Designation                   | Signature |
|----------------|---------------------------------|-------------------------------|-----------|
| Jiny Rehandron | Brochemistry<br>Cooking Manager | Brochemist<br>Guality Manager | Imi'y     |
|                | 0 0                             |                               |           |
|                |                                 |                               |           |
|                |                                 |                               |           |
|                |                                 |                               |           |
|                |                                 |                               |           |
|                |                                 |                               |           |

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| Instrument Name            | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

#### 5.0 INSTRUMENT DESCRIPTION

The Clinical Chemistry Analyzer is an open, full automated, discrete, patient prioritized, random access, computerized analyzer.

# **Technical Specifications:**

| System Type              | Open, Automated, Discrete, Random Access, Patient Prioritized, 1/2 Reageants                 |
|--------------------------|--|
| Analysis Speed           | 200 Biochemistry tests per hour 400 tests per hour (with ISE) for a cycle time of 18 seconds |
| Display resolution       | 1024 X 768   |
| Analyzer Dimensions      | 810 (W) x 800 (D) x 600 (H) mm   |
| Number of tests on board | Maximum: 50  |
| Assay Modes              | 1-point, 2-point, Rate-A and Rate -B, ISE optional   |
| Calibration              | Linear (two point and multi point), Factorized and Non-linear multipoint                     |
| Sample (Tubes / Cups)    | Primary tubes of 5, 7 or 10mL & sample cups  |
| Photometric Optics       | Mono and Bi-chromatic measurement using 8 wavelengths  |
| Absorbance Range         | 0 – 2.5  |
| Auxiliary Data           | 10,000 results   |
| Interface                | RS-232 C port for Bi-directional Communication   |
| Stat Sampling            | Total 30 positions   |
|                          |  |

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| Instrument Name   Clinical Chemistry Analyzer   Instrument ID | Bio-Medicals Ltd. |

#### Purpose:

The purpose of this instrument is to analyze the bio-chemical parameters, such as Sugar, Cholestrol, Tri-glycerides, Proteins, etc.

The working unit of the analyzer comprises the following:

- > Basic operating unit with an intelligent photometer
- Sophisticated robotics combined with an operating console and a central processing unit (CPU).

#### **Operating Unit:**

The operating unit of the analyzer includes the sample and reagent handling systems. The sample handling system consists of a sample tray, sample arm, sample syringe and a wash station for the sample probe.

#### **Photometric System:**

The photometric system consists of 45 hard glass cuvettes, multi wavelength diffracting photometer and a halogen lamp.

#### **Operating Console:**

The operating console consists of a touch screen (optional) color TFT monitor, a key board and a mouse.

#### CPU (Central Processing Unit):

CPU consists of Pentium – IV 1.7 GHz processor (or Higher) with a  $48 \times CD$  Drive, and minimum 256 MB memory. The application software can be installed on computers with operating systems of Windows XP.

Besides the above mentioned, this analyzer has got the unique Software and Hardware features.

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| Instrument Name            | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

#### 6.0 IDENTIFICATION OF MAJOR COMPONENTS / ACCESSORIES

Details of each major component identified in this section, is recorded in a data sheet under the section **08.0**.

| Name of Component / Accessories   | Present  | Verified by | Observations |
|-----------------------------------|----------|-------------|--------------|
| rvaine of Component / Accessories | Yes / No | Signature   | Observations |
| Sample Tray / Disk                | У        | 03          | -            |
| Sample Syringe                    | Х        |             |              |
| Sample Probe                      | У        | 1 / .       | /            |
| Wash Station for Sample Probe     | 9        | ,           |              |
| Reagent Tray / Disk               | ~        |             |              |
| Reagent Bottles                   | 7        |             |              |
| Reagent Probe                     | J        |             |              |
| Stirrer                           | J        |             |              |
| Permanent Reaction Cuvette        | 7        | 1 1         |              |
| 9 Stage Laundry System            | y        |             | * .          |
| Light Source                      | J        | /           |              |
| Sample Cups                       | 7        | 7           | 0            |
| Software of EM 200                | 7        |             |              |

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|                 | INSTALLATION QUALIFIC       | ATION         | IKANAJA           |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

# 7.0 INSTALLATION CHECK / REVIEW

| S. No. | Statement  | Yes / No      | Verified by<br>Signature |
|--------|--|---------------|--------------------------|
| 1.     | Verify that the "as built' drawings are complete and represent the design concept              | У             | (m)                      |
| 2.     | Verify that major components / accessories are securely anchored and shock proof.              | Y             | 1                        |
| 3.     | Verify that there is no observable physical damage.  | y             | ,                        |
| 4.     | Verify that there is sufficient room of servicing provided                                     | 7             | /                        |
| 5.     | Verify that all utilities and electrical connections have been done according to the drawings. | 7             | /                        |
| 6.     | Walking access to ground mounted instrument provided.  | J 3           | ,                        |
| 7.     | Required electric connections are tight, weather proof and earthed.                            | 7             |                          |
| 8.     | Instrument identification nameplate visible.   | 7             | 1                        |
| 9.     | Units installed on foundation and secure in place as per manufacturer's recommendations.       | 5             | ,                        |
| 10.    | Verify that the instruments installed and leveled properly on the floor.                       | J             |                          |
| 11.    | Verify that the Material of Construction is proper and meeting the requirements.               | $\mathcal{I}$ | (                        |

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| Instrument Name            | Clinical Chemistry Analyzer | Instrument ID | w. 2 | Bio-Medicals Ltd.   |

#### 8.0 INSPECTION CHECK / REVIEW

#### Instructions for completing the check / review

1. For each data sheet, record the required information with pen. Wherever required record "Yes" for acceptance, "No" for non-compliance and "NA" for not applicable.

"No" replies must be explained / justified.

- 2. When more than one component of same specification/type exists in the same equipment, individual data sheets should be filled for each component.
- 3. When a list of acceptable options is presented, tick ( ) the option that is actually present.
- 4. In the "Method of Verification" column indicate that item is installed and inspected according to manufacturer's specifications, such as by Visual / Physical, SOP, Test Certificate, Manual, etc.

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Instrument/ Component Name: Sample Tray / Disk

| Description                   | Specified                          | Actual     | Method of<br>Verification | Verified by<br>Signature |
|-------------------------------|------------------------------------|------------|---------------------------|--------------------------|
| No. of patient cups / samples | 30 positions                       | 30         | Veritied                  | Jiny R charation         |
| Standards / Stat              | 30 positions                       | 9          | verified                  | <u>lm14</u>              |
| Blank                         | Can be put on any position         | <b>‡</b> , | verified                  |                          |
| ISE positions<br>(Optional)   | Can be programmed on any positions | Nil        | veri fied                 |                          |
| Controls                      | Can be programmed on any positions | I3         | verified.                 |                          |

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| Instrument Name | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd.                  |

Instrument/ Component Name: Sample Syringe

| Description                   | Specified                               | Actual                                  | Metho<br>Verific |     | Verified by<br>Signature |
|-------------------------------|---|---|------------------|-----|--------------------------|
| Dispensing Volume             | 2 – 70 μL                               | 2-70ML                                  |                  | one | Janey Rehandrap          |
| Installed Location            | Behind the instrument on the right side | Behind the unstrument on the right side | D                | one | - fimity                 |
| Quantity                      | 01 No.                                  | 01 NO                                   | -                | ne  | c *                      |
| Increase in dispensing volume | 0.2 μL                                  | 0-2 ML                                  | Do               | ne  |                          |

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**Instrument/ Component Name: Sample Probe** 

| Description                   | Specified     | Actual         | Method | of Verification | Verified by<br>Signature |
|-------------------------------|---------------|----------------|--------|-----------------|--------------------------|
| Aspiration Volume             | 2 – 70 μL     | 2-70 HL        | Do     | ne              | Jany R chande            |
| MOC                           | Teflon coated | Teflon control | Do     | ne              | fmir .                   |
| Quantity                      | 01 No.        | 01 No.         | Don    | e               |                          |
| Increase in aspiration volume | 0.2 μL        | 0.2 HL         | Don    | ne              |                          |

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|                 | INSTALLATION QUALIFICATION  |               |  | IKANJAJIA         |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

Instrument/ Component Name: Wash Station for Sample Probe

| Description       | Specified           | Actual  | Method of | Verification | Verified by<br>Signature |
|-------------------|---------------------|---------|-----------|--------------|--------------------------|
| No. of position   | 01 No               | 01 No   | Don       | e            | Jany R chands            |
| Type of positions | i) Drain ii) Trough | i)Drain | Don       | 2            | fmir_                    |

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|                 | INSTALLATION QUALIFIC       | CATION        |   | IKANANA           |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID |   | Bio-Medicals Ltd. |

Instrument/ Component Name: Reagent Tray / Disk

| Description                      | Specified         | Actual | Method of<br>Verification | Verified by<br>Signature |
|----------------------------------|-------------------|--------|---------------------------|--------------------------|
| Cool reagent disk                | 50 positions      | Y      |                           | <b>6</b>                 |
| Outer Rings                      | 25 positions      | Y      |                           | 1                        |
| Inner Rings                      | 25 positions      | У      |                           | 1                        |
| Adaptors of 5mL                  | 50 positions      | У      |                           | 1                        |
| Maintenance of Temperature       | 8-12°C ± 2°C      | Y      |                           | 1                        |
| Rotation of disk                 | Counter-Clockwise | Y      |                           | 1                        |
| Time for Rotation of one Cuvette | Every 18 seconds  | Y      |                           | /                        |

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|                 | INSTALLATION QUALIFIC       | CATION        | IKAWAJA           |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: Reagent Bottles

| Description                   | Specified                                      | Actual | Method of Verification | Verified by Signature |
|-------------------------------|--|--------|------------------------|-----------------------|
| Minimum Capacity              | 20 mL  | y      |                        | ~3                    |
| Maximum Capacity              | 50 mL  | у      |                        | /                     |
| Quantity (Large)              | 25 Nos'  | γ      |                        | . 1                   |
| Quantity (Smaller)            | 25 Nos'  | y      |                        | 1                     |
| Туре                          | Screw Capped                                   | y      |                        | (                     |
| Outer ring position           | 20 mL bottles & 5ml adaptors                   | y      |                        | 1                     |
| Inner ring position           | 20 mL & 50 mL<br>bottles & 5ml<br>adaptors     | Y      |                        | 1                     |
| MOC                           | Plastic  | ý      |                        | . 1                   |
| Adaptor                       | 50 Nos'  | γ      |                        | 1                     |
| Adaptor Capacity              | 5 mL   | У      |                        | 1                     |
| Identification of<br>Reagents | Barcode labels on<br>the reagent<br>containers | y      |                        | ,                     |

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| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: Reagent Probe

| Description                              | Specified              | Actual              | Method of Verification | Verified by<br>Signature |
|--|------------------------|---------------------|------------------------|--------------------------|
| Aspiration/Dispensing Volume             | R1: 50 – 300<br>μL     | Ri: 50-301          | Done                   | Jany R chand             |
|  | R2: 0 or10 –<br>300 μL | R2: Dor 10<br>300ML | Done                   | Amer .                   |
| MOC                                      | Teflon coated          | teflon coated       | Done                   |                          |
| Quantity                                 | 02 Nos'.               | 02 Nos              | Done                   |                          |
| Increase in aspiration/dispensing volume | 1 μL                   | IUL                 | Done                   |                          |

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| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: Reagent Syringe

| Description                   | Specified                                       | Actual   | Method of<br>Verification | Verified by<br>Signature |
|-------------------------------|---|--|---------------------------|--------------------------|
| Maximum capacity              | 500 μL  | 500uL  | Done                      | Jany R chands            |
| Installed Location            | At the back of the instrument on the right side | At the back of<br>the instrument<br>on the right sid | Done                      | mir                      |
| Quantity                      | 01 No.  | 01 NO  | Done                      |                          |
| Increase in dispensing volume | 1 μL  | 141  | Done                      |                          |

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|                 | INSTALLATION QUALIFIC       | CATION        | IKAWAJA                                |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd.                      |

Instrument/ Component Name: Stirrer

| Description    | Specified      | Actual | Method of Verification | Verified by Signature |
|----------------|----------------|--------|------------------------|-----------------------|
| Type           | Single Stirrer | У      |                        | 03                    |
| No. of paddles | 01 No.         | X      |                        |                       |

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|                 | INSTALLATION QUALIFIC       | CATION        | IKANDADIA         |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: Permanent Reaction Cuvette

Tag/Identification No.:

| Description | Specified  | Actual | Method of Verification | Verified by<br>Signature |
|-------------|------------|--------|------------------------|--------------------------|
| Quantity    | 45 Nos'    | Y      |                        | CAB.                     |
| MOC         | Hard Glass | Y      |                        | 1                        |
| Capacity    | 770 μL     | y      |                        | /                        |

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| <b>Instrument Name</b> | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: 7 Stage Laundry System

| Description | Specified  | Actual | Method of<br>Verification | Verified by Signature |
|-------------|------------|--------|---------------------------|-----------------------|
| Nozzles     | Nozzle - 1 | y      |                           | 033                   |
|             | Nozzle – 2 | У      |                           | - J                   |
|             | Nozzle – 3 | 1      |                           | /                     |
|             | Nozzle – 4 | /      |                           | 1                     |
|             | Nozzle – 5 | 1      |                           | /                     |
|             | Nozzle – 6 | ,      |                           | 1                     |
|             | Nozzle - 7 | /      |                           | _                     |

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|                 | INSTALLATION QUALIFIC       | CATION        | IKAWAJIA          |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

**Instrument/ Component Name: Light Source** 

| Description | Specified | Actual | Method of Verification | Verified by<br>Signature |
|-------------|-----------|--------|------------------------|--------------------------|
| Watts       | 12 W      | У      |                        | 03                       |
| Volts       | 12 V      | 1      |                        | 1                        |
| MOC         | Halogen   | 1      |                        | (                        |
| Quantity    | 01 No     | /      |                        | ,                        |

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| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

Instrument/ Component Name: Sample Cups

| Description |   | Specified | Actual | Method of Verification | Verified by<br>Signature |
|-------------|---|-----------|--------|------------------------|--------------------------|
| Quantity    | - | 500 Nos'  | Y      |                        | 038                      |
| MOC         |   | Plastic   | 1      |                        | 1                        |
| Capacity    |   | 2 mL      | ,      |                        | ,                        |

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**Instrument/ Component Name: Software of EM 360** 

| Description | Specified      | Actual | Method of Verification | Verified by Signature |
|-------------|----------------|--------|------------------------|-----------------------|
| Version     |                |        |                        | 033                   |
| CD number   |                |        |                        | 1                     |
| Product     | EM- 200        | X      |                        | (                     |
| Make        | Erba Transasia | Y      |                        | /                     |

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|-----------------|-----------------------------|---------------|-------------------|
|                 | INSTALLATION QUALIFIC       | CATION        | IKANANA           |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

# 9.0 IDENTIFICATION AND VERIFICATION OF MATERIAL OF CONSTRUCTION

Identify and list down all components of the equipment for its material of construction.

Method of Test may be Molybdenum Test, Test Certificate, Manual, etc.

| Component (s)              | Material of Construction | Actual | Method of Verification | Verified by<br>Sign & Date |
|----------------------------|--------------------------|--------|------------------------|----------------------------|
| Sample Probe               | Teflon coated            | y      |                        | 03                         |
| Reagent Probe              | Teflon coated            | 1      |                        | 1                          |
| Permanent Reaction Cuvette | Hard Glass               | 1      |                        | . 1                        |
| Light Source               | Halogen                  | 1      |                        | 1                          |
| Reagent Bottle             | Plastic                  | 1      |                        | 1                          |
| Sample Cups                | Plastic                  | /      |                        | /                          |

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| Instrument Name | e Clinical Chemistry Analyzer Instrument ID |         |  | Bio-Medicals Ltd.      |

#### 10.0 IDENTIFICATION AND VERIFICATION OF SUPPORTING UTILITIES

List the supporting utilities and record whether or not they are properly connected and identified.

| Utilities       | Observation / Result | Verified by<br>Sign & Date |
|-----------------|----------------------|----------------------------|
| Power           | $\gamma$             | CV33                       |
| Distilled Water | 1                    |                            |
| Wash Solution   | /                    |                            |
| UPS             | /                    |                            |

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#### 11.0 IDENTIFICATION OF STANDARD OPERATING PROCEDURE

| SOP No.     | Title  |
|-------------|--|
| Operation   | Operation of Bio-Chemistry Random Analyzer   |
| Calibration | Calibration of Parameters  |
| Controls    | Checking of Controls for Parameters  |
| Maintenance | Maintenance / Checking of Distilled water, Waste, Wash solution, Cuvette rinse, Sample probe wash and Water save |
| Cleaning    | Cleaning of Instrument surface   |

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| Instrument Name               | Clinical Chemistry Analyzer | Instrument ID |           | Bio-Medicals Ltd. |

#### 12.0 IDENTIFICATION AND VERIFICATION OF DOCUMENTS

# 12.1 DRAWINGS

| Title            | Drawing No. | Verified by<br>Sign & Date |
|------------------|-------------|----------------------------|
| As-built Drawing |             |                            |
|                  |             |                            |

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| Instrument Name            | Clinical Chemistry Analyzer   | Instrument ID |  | Bio-Medicals Ltd. |

#### 12.2 GENERAL DOCUMENTS

| Title                    | Document No. | Verified by<br>Sign & Date |
|--------------------------|--------------|----------------------------|
| General                  | 3            |                            |
| Purchase Order No.       | 7            | <b>F</b>                   |
| Warranty Certificate     | 1            | 1                          |
| Invoice                  | 1            | ,                          |
| Test Certificates        |              |                            |
| Material of Construction | 1            | 1                          |
| Electrical Motor         | /            | ,                          |

|                        | TRANSASIA BIOMEDICALS LIMITED |               |         | \$ 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 |
|------------------------|-------------------------------|---------------|---------|--|
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| <b>Instrument Name</b> | Clinical Chemistry Analyzer   | Instrument ID |         | Bio-Medicals Ltd.                        |

#### 13.0 DEFICIENCIES / DEVIATIONS:

# Reviewed by:

| Name      | Signature | Date    |
|-----------|-----------|---------|
| Bim. N. m | (A)       | 1214/21 |

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|-------------------------------|-----------------------------|---------------|-----------------|-------------------|
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| Instrument Name               | Clinical Chemistry Analyzer | Instrument ID |                 | Bio-Medicals Ltd. |

#### 14.0 SUMMARY AND EVALUATION:

# Reviewed by:

| Name      | Signature | Date    |
|-----------|-----------|---------|
| BIM. N. m | (M)       | 12/4/21 |

| TRANSASIA BIOMEDICALS LIMITED |                             |               | TDANCACIA®     |                   |
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| INSTALLATION QUALIFICATION    |                             |               | Dia Madianal M |                   |
| Instrument Name               | Clinical Chemistry Analyzer | Instrument ID |                | BIO-Medicals Ltd. |

#### 15.0 ABBREVIATIONS

| SOP | Standard Operating Procedure |  |
|-----|------------------------------|--|
| MOC | Material of Construction     |  |
| IQ  | Installation Qualification   |  |

|                            | TRANSASIA BIOMEDICALS LIMITED |               | ************************************** |                   |
|----------------------------|-------------------------------|---------------|--|-------------------|
| INSTALLATION QUALIFICATION |                               |               | IKANJAJIA                              |                   |
| Instrument Name            | Clinical Chemistry Analyzer   | Instrument ID | ,                                      | Bio-Medicals Ltd. |

#### 16.0 POST APPROVAL:

# 16.1 Checked by

| Na     | me       | Designation                   | Signature | Date    |
|--------|----------|-------------------------------|-----------|---------|
| Jiny R | Chandran | Brochemist<br>Quality Manager | my        | 12/4/21 |
| 2      |          | 0 0                           |           |         |
|        |          | ,                             |           |         |

# 16.2 Approved by

| Name            | Designation                   | Signature | Date    |
|-----------------|-------------------------------|-----------|---------|
| Jincy Rchardran | Biochemist<br>Onality Manager | -lmi4     | 12/4/21 |

Note: This report is effective from the date of approval.



Transasia Bio-Medicals Ltd., C2, II Floor, Periellath Towers, Jawahar Road, Vyttila, Kochi-682019. Kerala Tel: +91 484 4020511 Fax: +91 484 2112066 Email: sz3@transasia.co.in CIN: U33110MH1985PLC036198



13/4/21

# **CALIBRATION CERTIFICATE**

THIS IS TO CERTIFY THAT THE FULLY AUTOMATED BIO CHEMISTRY ANALYSER EM 200 HAVING SR.NO.2002360 INSTALLED AT CPC LAB; CALICUT IS CALIBERATED ON 13/4/21 AND THE NEXT CALIBRATION DATE WILL BE ON 13/4/22.

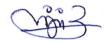
CALIBRATOR: MULTICALIBRATOR

EXPIRY:15/6/21

TRANSASIA BIO MEDICALS LTD

SR. ASM

CALICUT.





# TRANSASIA BIOMEDICALS LIMITED OPERATIONAL QUALIFICATION CHECKLIST Instrument Name | Clinical Chemistry Analyzer | Instrument ID



As part of Operational qualification, the following checks shall be done and each test shall be recorded:

#### Instrument Start-up

To check and establish the standard sequence to be followed, during start-up of the subjected instrument in Auto / Manual mode, to propose for correct operation and to avoid any damage to the instrument and personnel.

#### **Functional Checks**

To check and ensure that different functions (such as switching devices, indication / monitoring / recording devices, feedback system, etc.) for correct operation of the subjected instrument are working as expected.

#### **Interlocks and Alarms Check**

To check and ensure that the interlocks and alarms (such as status indication system, negative feed back system, control loops, sound alarms, etc.) for correct control and monitoring of the operation cycle are working as expected.

#### Safety / Security Checks

To check and ensure that the safety / security functions (such as program logging, process control, personnel safety systems, password check, etc.) to protect the instrument and personnel are working as expected.

#### **Instrument Shut-down**

To check and establish the standard sequence to be followed, during shut-down of the subjected instrument in Auto / Manual mode, to propose for correct operation and to avoid any damage to the instrument and personnel.

| TRANSASIA BIOMEDICALS LIMITE                             | D TDANGAGIA®           |  |
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| OPERATIONAL QUALIFICATION CHECK                          | CLIST Die Medicale 144 |  |
| Instrument Name   Clinical Chemistry Analyzer   Instrume | nt ID DIU-MEUICAS LIU. |  |

# 1.0 INSTRUMENT START-UP:

Refer the Operator's Manual for the procedures, for the following activities:

| Action   | Observation | Verified by<br>(Sign & Date) | Remarks |
|--|-------------|------------------------------|---------|
| Ensure that all the required electrical connections are properly connected.                                    |             | 023                          |         |
| Ensure the proper filling of double distilled / de-ionized water and Cleaning solution in the respective cans. |             | 03                           |         |
| Ensure the availability of XL Wash.  |             | 200                          |         |
| Ensure the availability of Biohazard Waste.  |             | <b>3</b>                     |         |
| Ensure the availability of Normal Waste.   |             | 03                           |         |
| Switch ON the rear switch of the analyzer.   |             | 3                            |         |
| Switch ON the side switch of the analyzer.   |             | ( )                          |         |
| Switch ON the computer and start the analyzer application software.  |             | 23                           |         |
| Initialization   |             |                              |         |

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| <b>OPERA</b>           | ANSASIA BIOMEDICA<br>TIONAL QUALIFICAT<br>nical Chemistry Analyzer | ION CHECKLIST                | TRANSASIA® Bio-Medicals Ltd. |
|------------------------|--|------------------------------|------------------------------|
| 2.0 FUNCTIONAL CH      | ECKS:  | ė.                           |                              |
| 2.1 Maintenance:       |  |                              |                              |
| Refer the Operator's   | Manual for the procedures,   | , for the following activiti | es:                          |
| Activity               | Observation  | Verified by<br>(Sign & Date) | Remarks                      |
| Photometer functioning | OK   | 03                           |                              |
| Cuvette Rinse          | 04   | 3                            |                              |
|                        |  |                              |                              |
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|                 | TRANSASIA BIOMEDICAL        | S LIMITED     | TD ANCACIA®         |
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| OPI             | ERATIONAL QUALIFICATION     | ON CHECKLIST  | Dia Madiania I ta   |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | DIU-IVICUILAIS LIU. |

# 2.2 Loading of Reagents:

Refer the Operator's Manual for the procedures, for the following activities:

| Action  | Observation | Verified by (Sign & Date) | Remarks |  |
|---|-------------|---------------------------|---------|--|
| Reagent Level Scan,<br>Dead Volume Check &<br>2 Reagent Chemistry | 01          | 000                       |         |  |

Page 4 of 8

| TRANSASIA BIOMEDICALS LIMITED |   |                              |                 |  |
|-------------------------------|---|------------------------------|-----------------|--|
|                               | TIONAL QUALIFICATI nical Chemistry Analyzer |                              | Bio-Medicals Lt |  |
| 2.3 Calibration:              |   |                              |                 |  |
| Refer the Operator's          | Manual for the procedures,                  | for the following activit    | ies:            |  |
| Action                        | Observation                                 | Verified by<br>(Sign & Date) | Remarks         |  |
| Blank (Distilled Water)       | ok  | 000                          |                 |  |
| Standard (Multical)           | 0 +   | 03                           |                 |  |

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| TRANSASIA BIOMEDICALS LIMITED |                             |               | TDANGAGIA®       |
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| OP                            | ERATIONAL QUALIFICATION     | ON CHECKLIST  | Dio Madiana Ita  |
| Instrument Name               | Clinical Chemistry Analyzer | Instrument ID | DIU-WBUIGAS LIU. |

# 3.0 INTERLOCKS AND ALARMS CHECK:

Refer the Operator's Manual for the procedures, for the following activities:

| Action                                   | Observation | Verified by<br>(Sign & Date) | Remarks |
|--|-------------|------------------------------|---------|
| Less volume of<br>Distilled Water        | ok          | 03                           |         |
| Less volume of Wash<br>Solution          | ok          | 033                          |         |
| More volume of Bio-<br>Hazard waste      | 0 (         | 03                           |         |
| More volume of<br>Normal / General waste | ok          | 03                           |         |

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| TRANSASIA BIOMEDICALS LIMITED                                 | ΤΡΑΝ(Λ(ΙΔ <sup>®</sup> |
|---|------------------------|
| OPERATIONAL QUALIFICATION CHECKLIST                           | Dio Modinala Ita       |
| Instrument Name   Clinical Chemistry Analyzer   Instrument ID | Bio-Medicals Ltd.      |

## 4.0 SAFETY / SECURITY CHECKS:

Refer the Operator's Manual for the procedures, for the following activities:

| Action                                | Observation | Verified by (Sign & Date) | Remarks |
|---------------------------------------|-------------|---------------------------|---------|
| Password Check for<br>Test Parameters | ok          | (A)                       |         |
| Password Check for QC<br>Mode         | ok          | 99                        |         |

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|-----------------|-----------------------------|---------------|-------------------|
| OP              | ERATIONAL QUALIFICATION     | ON CHECKLIST  | Dia Madiana I ta  |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

## 5.0 INSTRUMENT SHUT-DOWN:

Refer the Operator's Manual for the procedures, for the following activities:

| Action                                      | Observation | Verified by<br>(Sign & Date) | Remarks |
|---|-------------|------------------------------|---------|
| Sample Probe Wash                           | 0           | (A)                          |         |
| Water Save                                  | ok          | <b>3</b>                     |         |
| Switch OFF the computer.                    | ok          | 03                           |         |
| Switch OFF the side switch of the analyzer. | OC          | 8                            |         |
| Switch OFF the rear switch of the analyzer. | or          | 3                            |         |

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| -               | TRANSASIA BIOMEDICALS       | LIMITED       | Th Alieneia <sup>®</sup> |
|-----------------|-----------------------------|---------------|--------------------------|
|                 | PERFORMANCE QUALIFI         | CATION        | <br>IKAWANA              |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd.        |

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|                 | PERFORMANCE QUALIFI         | CATION        | IKAWANA           |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID | Bio-Medicals Ltd. |

# 1.0 PRE APPROVAL

# 1.1 Prepared By

| Name    | Designation | Signature | Date    |
|---------|-------------|-----------|---------|
| Bion No | 5-6- A5m    | 03        | 12/4/21 |

## 1.2 Checked By

| Name    | Designation | Signature | Date    |
|---------|-------------|-----------|---------|
| Bim N.m | 56. Asm     | 03        | 12/4/21 |
|         |             |           |         |
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# 1.3 Approved By

|       | Name Designation |            | Signature | Date    |
|-------|------------------|------------|-----------|---------|
| Janey | R chandran       | BLOCHEMIST | min       | 12/4/21 |

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|                        | TRANSASIA BIOMEDICALS              | LIMITED       | *NAUCACIA®        |
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|                        | PERFORMANCE QUALIFICATION          |               |                   |
| <b>Instrument Name</b> | <b>Clinical Chemistry Analyzer</b> | Instrument ID | Bio-Medicals Ltd. |

#### 2.0 OBJECTIVE

The objective of this protocol is to establish documented evidence for the Performance Qualification of EM 200 (Bio-Chemistry Random Analyzer) and to ensure that the results obtained are within the pre-determined Acceptance Criteria.

#### 3.0 SCOPE

The Scope of this protocol is applicable to EM 200 (Bio-Chemistry Random Analyzer).

#### 4.0 PRE-REQUISITES:

Following Pre-requisites are required before the execution of Performance Qualification.

- > Completion of Installation Qualification prior to PQ.
- > Completion of Operational Qualification prior to PQ.

#### 5.0 EXECUTION TEAM

| Name   | Department | Designation | Signature |
|--------|------------|-------------|-----------|
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|                 | TRANSASIA BIOMEDICALS       | LIMITED       |  | TO A MEACIA®      |
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|                 | PERFORMANCE QUALIFICATION   |               |  | IKARDAJIA         |
| Instrument Name | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

### 6.0 TEST PLAN

The following tests shall be followed, during the Performance Qualification of XL 640 (Bio-Chemistry Random Analyzer).

| Test Parameter         | Acceptance Criteria | Test Procedure /<br>Reference |
|------------------------|---------------------|-------------------------------|
| Glucose                | ±4.30               | GOD POD                       |
| cholesterol<br>Calcism |                     | CHOD- PAP                     |
| Calcierm               | ± 0.41              | Arsen 9 30 111                |
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| nstrument Name | TRANSASIA BION PERFORMANC Clinical Chemistry | E QUALIFIC |         |      | IRANSASIA<br>Bio-Medicals Ltd |
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| 7.0 EXECUTION  | ON OF TEST PLAI                              | N          |         |      |                               |
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|                 | TRANSASIA BIOMEDICALS LIMITED TDANGAGA |               |     |  |  |
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|                 | PERFORMANCE                            | QUALIFICATION |     | <b>TRANSASIA®</b><br>Bio-Medicals Ltd. |  |
| Instrument Name | <b>Clinical Chemistry</b>              |               |     | Bio-Medicals Ltd.                      |  |
| 3.0 DEFICIENC   | IES / DEVIATIONS:                      |               |     |  |  |
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|                 |  |               |     | Page 6 of 9                            |  |

|                | TRANSASIA BIOMEDICALS LIMITED               | TRANSASIA        |
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|                | PERFORMANCE QUALIFICATION                   | MICAUNAII        |
| nstrument Name | Clinical Chemistry Analyzer   Instrument ID | Bio-Medicals Ltd |
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| Instrument Name | TRANSASIA BIOMEDICALS LIMITED PERFORMANCE QUALIFICATION Clinical Chemistry Analyzer   Instrument ID | TRANSASIA®<br>Bio-Medicals Ltd. |
|-----------------|---|---------------------------------|
| 10.0 ABBREVIAT  |   | -                               |
| SOP             | Standard Operating Procedure  |                                 |
| МОС             | Material of Construction  |                                 |
| PQ              | Performance Qualification   |                                 |
|                 |   |                                 |
|                 |   | age 8 of 9                      |

| TRANSASIA BIOMEDICALS LIMITED |                             |               |  | *** A 1 ( A ) ( ) |
|-------------------------------|-----------------------------|---------------|--|-------------------|
| PERFORMANCE QUALIFICATION     |                             |               |  | IKANANIA          |
| Instrument Name               | Clinical Chemistry Analyzer | Instrument ID |  | Bio-Medicals Ltd. |

### 11.0 POST APPROVAL

## 11.1 Checked by

| Name            | Designation                     | Signature | Date      |
|-----------------|---------------------------------|-----------|-----------|
| Janey R Chandra | n Biochemist<br>Quality Manager | Imcy -    | 12/4/21   |
|                 | gen y                           |           |           |
|                 |                                 |           | er i i jo |

## 11.2 Approved by

| Name            | Designation                   | Signature | Date    |
|-----------------|-------------------------------|-----------|---------|
| Juny R Chandran | Brochemist<br>Quality Manager | Imicy.    | 12/4/21 |

Note: This report is effective from the date of approval.

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