

**CALIBRATION CERTIFICATE**

ULR-CC278221030001783F

|  |                           |                             |
|--|---------------------------|-----------------------------|
| Certificate No. : BRMTL/01/521100006-A1-A  | Date of Issue             | : 03-04-2021                |
| Name and address of the Customer<br>M/s. Alpha Lifecare<br>No 17, Bashyam Street,<br>Manjakuppam, Cuddalore - 607001 | Date of Receipt of Item   | : 02/04/2021                |
|  | Date of Calibration       | : 02/04/2021                |
|  | Calibration Due           | : 01/04/2022                |
|  | (As Per Customer Request) |                             |
|  | Customer Reference        | : Mail Confirm # 31.03.2021 |

**1. DESCRIPTION OF DEVICE UNDER CALIBRATION (DUC)**

|                 |   |                            |  |
|-----------------|---|----------------------------|--|
| Name of the DUC | : ELECTRICAL SAFETY<br>(Semi Auto Analyser) | Receiving Condition of DUC | : Satisfactory                         |
| Identification  | : ---                                       | Reference Document         | : As Per Manufacturer<br>Specification |
| SLNo.           | : C170181                                   | Cal. Procedure Ref. No.    | : BRMTL/WI/418                         |
| Make            | : Erba Mannheim                             | Environmental Condition    | : Temp : 24.5°C / RH : 58%             |
| Model           | : Chem 7                                    | Calibrated at              | : Onsite                               |
| Location        | : Biochemistry                              |                            |  |

**2. DETAILS OF MASTER USED**

| Standard Instrument Used   | Make / Model         | SL. No. / ID No.      | Traceable To / Certificate No. | Validity   |
|----------------------------|----------------------|-----------------------|--------------------------------|------------|
| Electrical Safety Analyzer | Rigel Medical / 288+ | 48K-0413<br>BRMTL-315 | ACCS201093                     | 12.09.2021 |

The Masters are traceable to National / International standards as per ISO/IEC 17025

**FIELD - MEDICAL DEVICES**

**Calibration Results**

**3. VISUAL INSPECTION**

| SL. No. | Description                                 | Remarks |      |
|---------|---|---------|------|
|         |   | Pass    | Fail |
| 1       | Device Clean and Decontaminated             | √       |      |
| 2       | Physical damage                             | √       |      |
| 3       | Power cord check                            | √       |      |
| 4       | Display intensity adequate for day time use | √       |      |
| 5       | Alarm Function                              | √       |      |

CALIBRATED BY (CALIBRATION ENGINEER)

AUTHORIZED BY (QM/TM/DY.TM/Sr.Eng)

*DH*  
DHANARAJA V

*K*  
KAMALAKANNAN R

This Report refers only to the sample submitted and may not be reproduced in full or in part, without written permission from Quality Manager Roots Metrology & Testing Laboratory, Bangalore.

01 of 02

\* NEXT CALIBRATION DUE AS PER CUSTOMER'S PLAN AND REQUIREMENT



**CALIBRATION CERTIFICATE**

ULR-CC278221030001783F

Certificate No. : BRMTL/01/521100006-A1-A

**4. ELECTRICAL SAFETY**

**4.1 INSULATION TEST**

| SL. NO. | Specification             | Measured Value (MΩ) | Allowable Limit (MΩ) | Uncertainty ± (%) | Remarks |
|---------|---------------------------|---------------------|----------------------|-------------------|---------|
| 1       | Mains to Protective Earth | >100                | >2                   | 8.1               | Pass    |

**4.2 EARTH LEAKAGE**

| SL. NO. | Specification       | Measured Value (μA) | Allowable Limit (μA) | Uncertainty ± (%) | Remarks |
|---------|---------------------|---------------------|----------------------|-------------------|---------|
| 1       | Normal Condition    | 88                  | <5000                | 8.21              | Pass    |
| 2       | Open Neutral (SFC*) | 158                 | <10000               | 8.21              | Pass    |

**4.3 ENCLOSURE LEAKAGE**

| SL. NO. | Specification       | Measured Value (μA) | Allowable Limit (μA) | Uncertainty ± (%) | Remarks |
|---------|---------------------|---------------------|----------------------|-------------------|---------|
| 1       | Normal Condition    | 25                  | <100                 | 8.21              | Pass    |
| 2       | Open Neutral (SFC*) | 57                  | <500                 | 8.21              | Pass    |

**5. REMARKS**

- The calibration results reported corresponds to the particular item mentioned above.
- This Certificate refers to the values obtained at the time of calibration and under the above stated conditions.
- All Calibrations are done in SI units and are traceable to National/International standards as required in ISO/IEC/17025.
- Certificate will not be reproduced except in full without the written approval of the Laboratory.
- The reported uncertainty of measurement is stated as the standard uncertainty in measurement multiplied by the coverage factor k=2, which for a normal distribution corresponds to a coverage probability 95.45%.
- SFC - Single Fault Condition.

CALIBRATED BY (CALIBRATION ENGINEER)

AUTHORIZED BY (QM/TM/DY/TM/Sr/Er)

This Report refers only to the sample submitted and may not be reproduced in full or in part, without written permission from Quality Manager Roots Metrology & Testing Laboratory, Bangalore.

DHANARAJA V

KAMALAKANNAN R

02 of 02

Calibration

White : Calibrated



Green : Accepted - Valid for use



Label / Status :

Yellow : Limited use (Refer report)



Red : Rejected-Out of use (Refer report)



\* NEXT CALIBRATION DUE AS PER CUSTOMERS PLAN AND REQUIREMENT





# ROOTS METROLOGY & TESTING LABORATORY

(A Division of Roots Industries India Limited)

156, Bommasandra Industrial Area, Bommasandra, Jigani Link Road,  
Anekal Taluk, Bangalore - 560 099, Mobile : 97900 14066, E-mail : blrmetlab@rootsemail.com

## CALIBRATION CERTIFICATE

|   |                           |                             |
|---|---------------------------|-----------------------------|
| Certificate No. : BRMTL/01/521100006-A1-B | Date of Issue             | : 03-04-2021                |
| Name and address of the Customer          | Date of Receipt of Item   | : 02/04/2021                |
| M/s. Alpha Lifecare                       | Date of Calibration       | : 02/04/2021                |
| No 17, Bashyam Street,                    | Calibration Due           | : 01/04/2022                |
| Manjakuppam, Cuddalore - 607001           | (As Per Customer Request) |                             |
|   | Customer Reference        | : Mail Confirm # 31.03.2021 |

### 1. DESCRIPTION OF DEVICE UNDER CALIBRATION (DUC)

|                 |   |                            |  |
|-----------------|---|----------------------------|--|
| Name of the DUC | : ELECTRICAL SAFETY<br>(Semi Auto Analyser) | Receiving Condition of DUC | : Satisfactory                         |
| Identification  | : ---                                       | Reference Document         | : As Per Manufacturer<br>Specification |
| Sl.No.          | : C170181                                   | Cal. Procedure Ref. No.    | : BRMTL/WI/418                         |
| Make            | : Erba Mannheim                             | Environmental Condition    | : Temp : 24.5°C / RH : 58%             |
| Model           | : Chem 7                                    | Calibrated at              | : Onsite                               |
| Location        | : Biochemistry                              |                            |  |

### 2. DETAILS OF MASTER USED

| Standard Instrument Used   | Make / Model         | SL. No. / ID No.      | Traceable To / Certificate No. | Validity   |
|----------------------------|----------------------|-----------------------|--------------------------------|------------|
| Electrical Safety Analyzer | Rigel Medical / 288+ | 48K-0413<br>BRMTL-315 | ACCS201093                     | 12.09.2021 |

The Masters are traceable to National / International standards as per ISO/IEC 17025

### FIELD - MEDICAL DEVICES

#### Calibration Results

### 3. ELECTRICAL SAFETY

#### 3.1 LOAD TEST (MAINS VOLTAGE)

| SL. No. | Specification    | Measured Value (V) | Allowable Limit (V) | Remarks |      |
|---------|------------------|--------------------|---------------------|---------|------|
|         |                  |                    |                     | Pass    | Fail |
| 1       | Live to Neutral  | 229                | 230±10%             | √       |      |
| 2       | Neutral to Earth | 0                  | <3                  | √       |      |
| 3       | Live to Earth    | 229                | 230±10%             | √       |      |

### 4. REMARKS

- The calibration results reported corresponds to the particular item mentioned above.
- This Certificate refers to the values obtained at the time of calibration and under the above stated conditions.
- All Calibrations are done in SI units and are traceable to National/International standards as required in ISO/IEC/17025.

|                                      |  |  |   |
|--------------------------------------|--|--|---|
| CALIBRATED BY (CALIBRATION ENGINEER) | AUTHORIZED BY (QM/TM/DY.TM/Sr.Eng)                           | This Report refers only to the sample submitted and may not be reproduced in full or in part, without written permission from Quality Manager Roots Metrology & Testing Laboratory, Bangalore. | 01 of 01  |
| <br>DHANARAJA V                      | <br>KAMALAKANNAN R   |  |   |
| Calibration Label / Status :         | White : Calibrated <input checked="" type="checkbox"/>       | Green : Accepted - Valid for use <input type="checkbox"/>  | * NEXT CALIBRATION DUE AS PER CUSTOMER'S PLAN AND REQUIREMENT |
|                                      | Yellow : Limited use (Refer report) <input type="checkbox"/> | Red : Rejected-Out of use (Refer report) <input type="checkbox"/>  |   |