

Ace Medical Solutions (India) Pvt. Ltd.

An ISO 9001-2015 Certified Company

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GSTIN. 33AAHCA8053H1ZR • DL No. MDU/4205/20B,MDU/3971/21B • CIN : U33110TN2009PTC072140

CALIBRATION CERTIFICATE



| | | | |
|--------------------------|---------------------------------------------------------------------------------|-----------------|------------------|
| Customer Name & Address: | M/S. Sri Annai Clinical Lab 11, Pattabiramar Kovil Street, Aruppukkottai. | Certificate No: | AMS/HOSP/2888447 |
| | | Issuing Date: | 02/09/2020 |
| | | Page No: | 1 of 2 |

Details of Device under Calibration (DUC):

| | | | |
|----------------------|------------------------|----------------------------|------------------|
| DUC: | Refrigerator - Reagent | Id. No: | SAC/LAB/RREF/001 |
| Make: | Samsung | Department: | Laboratory |
| Model: | Small Single Door | Calibrated On: | 01/09/2020 |
| Sl. No: | --- | Calibration Due Suggested: | 31/08/2021 |
| Type: | Reagent | DUC Condition on Receipt: | OK |
| Range & Least Count: | 0 - 8°C / LC 1°C | | |

Traceability Details:

| Sl.No. | Test Equipment | Make | Certificate Number | Valid Up to |
|--------|-------------------|------------------|--------------------|-------------|
| 1 | RTD Thermometer | Center / RTD 375 | QC/AMS/DTI/002 | 22/02/2021 |
| 2 | Thermo Hygrometer | HTC | QC/AMS-DTI-004 | 22/02/2021 |

Room Temperature: 25°C±2 Room Humidity: 30-60% (At the time of Calibration)

Test Results:

| SL.No. | DUC Reading (°C) | Standard Reading (°C) | Correction (°C) |
|--------|------------------|-----------------------|-----------------|
| 1 | Knob Position 4 | 1.89 | 0 |
| 2 | Knob Position 4 | -3.91 | 0 |

Allowable Tolerance: ±1°C

Note:

1. Calibration Points were selected as per customer request.
2. Each reading were taken by Repeatability Test (i.e.) each reading in a row is a mean of 10 readings.
3. Results Reported are valid at the time of and under the stated conditions of measurements.

Calibrated By:

(Calibration Engineer)

B. Thy.



Approved by:

(Technical Manager)

B. Thy.

ESA Results:

| Test Number | Test Standard | Test | Condition | Filter Selection | Reading Value | Reading Unit | Polarity | Neutral | Earth | Applied Parts |
|-------------|---------------|--------------------|-----------|------------------|---------------|--------------|----------|---------|--------|---------------|
| 1 | Earth Bonding | Earth Bond Voltage | Normal | AC+DC | 0.1633 | Ω | Normal | Closed | Closed | All |

| | | | | | | | | | | |
|----|----------|---------------------------------|--------|-------|--------|------|----------|--------|--------|-----|
| 2 | IEC60601 | Leakage: Earth | Normal | AC+DC | 132.60 | μA | Normal | Closed | Closed | All |
| 3 | | Leakage: Earth | Normal | AC+DC | 124.31 | μA | Reversed | Closed | Closed | All |
| 4 | | Leakage: Enclosure | Normal | AC+DC | 0.00 | μA | Normal | Closed | Open | All |
| 5 | | Leakage: Enclosure | Normal | AC+DC | 0.00 | μA | Reversed | Closed | Closed | All |
| 6 | | Leakage: Earth | SFC | AC+DC | 257.03 | μA | Normal | Open | Closed | All |
| 7 | | Leakage: Earth | SFC | AC+DC | 245.88 | μA | Reversed | Open | Closed | All |
| 8 | | Leakage: Enclosure | SFC | AC+DC | 134.21 | μA | Normal | Closed | Open | All |
| 9 | | Leakage: Enclosure | SFC | AC+DC | 139.50 | μA | Reversed | Closed | Open | All |
| 10 | | Current | Normal | AC+DC | 0.382 | Amps | Normal | Closed | Closed | All |
| 11 | | Frequency | Normal | AC+DC | 49.9 | Hz | Normal | Closed | Closed | All |
| 12 | | Mains Voltage: Live to Neutral | Normal | AC+DC | 231.2 | V | Normal | Closed | Closed | All |
| 13 | | Mains Voltage: Live to Earth | Normal | AC+DC | 235.9 | V | Normal | Closed | Closed | All |
| 14 | | Mains Voltage: Neutral to Earth | Normal | AC+DC | 4.6 | V | Normal | Closed | Closed | All |

| | | | | | | | | | | |
|----|----------|-------------------|---------------|-------|--------|----|----------|--------|------|-----|
| 15 | IEC62353 | Equipment Leakage | Direct Method | AC+DC | 158.70 | μA | Normal | Closed | Open | All |
| 16 | | Equipment Leakage | Direct Method | AC+DC | 158.36 | μA | Reversed | Closed | Open | All |

| | | | | | | | | | | |
|----|---------|-----------------|--------|-------|--------|----|----------|--------|--------|-----|
| 17 | NFPA-99 | Ground Leakage | Normal | AC+DC | 134.90 | μA | Normal | Closed | Closed | All |
| 18 | | Ground Leakage | Normal | AC+DC | 131.33 | μA | Reversed | Closed | Closed | All |
| 19 | | Ground Leakage | SFC | AC+DC | 259.33 | μA | Normal | Open | Closed | All |
| 20 | | Ground Leakage | SFC | AC+DC | 259.56 | μA | Reversed | Open | Closed | All |
| 21 | | Chassis Leakage | Normal | AC+DC | 0.00 | μA | Normal | Closed | Closed | All |
| 22 | | Chassis Leakage | Normal | AC+DC | 0.00 | μA | Reversed | Closed | Closed | All |
| 23 | | Chassis Leakage | SFC | AC+DC | 137.20 | μA | Normal | Closed | Open | All |
| 24 | | Chassis Leakage | SFC | AC+DC | 132.14 | μA | Reversed | Closed | Open | All |

| | | | | | | | | | | |
|----|----------|---------------|--------|-------|--------|----|----------|--------|--------|-----|
| 25 | IEC61010 | Touch Leakage | Normal | AC+DC | 0.00 | μA | Normal | Closed | Closed | All |
| 26 | | Touch Leakage | Normal | AC+DC | 0.00 | μA | Reversed | Closed | Closed | All |
| 27 | | Touch Voltage | Normal | AC+DC | 2.63 | V | Normal | Closed | Closed | All |
| 28 | | Touch Voltage | Normal | AC+DC | 2.63 | V | Reversed | Closed | Closed | All |
| 29 | | Touch Leakage | SFC | AC+DC | 127.72 | μA | Normal | Closed | Open | All |
| 30 | | Touch Leakage | SFC | AC+DC | 126.85 | μA | Reversed | Closed | Open | All |
| 31 | | Touch Voltage | SFC | AC+DC | 2.63 | V | Normal | Closed | Open | All |
| 32 | | Touch Voltage | SFC | AC+DC | 2.63 | V | Reversed | Closed | Open | All |

| | | | | | | | | | | |
|----|--------------------|-----------------------|--------|-------|-----|----|--------|--------|--------|-----|
| 33 | Insulation Testing | Insulation Resistance | Normal | AC+DC | >20 | MΩ | Normal | Closed | Closed | All |
|----|--------------------|-----------------------|--------|-------|-----|----|--------|--------|--------|-----|

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|----|------------------------|--------------------------------|--------|-------|-------|----|--------|--------|--------|-----|
| 34 | Point to Point Testing | Point to Point Earth Bond Test | Normal | AC+DC | >19.9 | Ω | Normal | Closed | Closed | All |
| 35 | | Point To Point Leakage Test | Normal | AC+DC | 0 | mA | Normal | Closed | Closed | All |
| 36 | | Standard Insulation Test | Normal | AC+DC | >20 | MΩ | Normal | Closed | Closed | All |

| | | | | | |
|-------------|-----|-----------|----------|-----------|--------|
| Test Passed | Yes | Tested On | 1.9/2020 | Tested By | B. Jey |
|-------------|-----|-----------|----------|-----------|--------|

