



CC-2806

CALIBRATION CERTIFICATE

In accordance with ISO / IEC-17025 : 2017

F10-CC-03

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| | |
|--|--|
| Certificate No. : SL2304TL0287-013 | Issue Date : 04-05-2023 |
| 1. Customer Name & Address: M/s.State Reference Laboratory Of HIV Testing (APSACS), Department Of Microbiology, Kurnool Medical College, Kurnool, 518 002. | ULR - C C 2 8 0 6 2 3 0 0 0 0 2 6 1 6 F |
| | Reference Date : 29-04-2023 |
| | Calibration Date : 30-04-2023 Calibration Due Date : 29-04-2024 |

2. Details of Unit Under Calibration:

| | |
|--|-------------------------------------|
| Description : Digital Thermo Hygrometer With Probe | |
| Make : HTC | Model No. : HTC-2 |
| Range : -50 to 70 °C / 10 to 99 %RH | Id No. : APSACS/ICTC/CHC/YMG/THM/01 |
| Resolution : 0.1 °C / 1 %RH | |

3. Detail of Standard Instruments Used :

| Instrument Used | SI / Id No | Valid up to | Certificate No. |
|--|----------------------|-------------|-------------------|
| Digital Thermo Hygrometer With Sensor | 5180091/2027760 4 | 16-07-2023 | 30056478 |
| Digital Temperature Indicator With SPRT Sensor | 935-14-95 H | 20-04-2024 | TSC/22-23/18859-2 |

4. Environmental Conditions: Standard Temperature : (25±4) °C Relative Humidity : (50±20) % RH

5. Calibration Procedure: SOP-TL-01 / SOP-TL-04

6. Thermal Calibration: Temperature & Relative Humidity

7. Remarks:

- The instrument/equipment is in good condition and was calibrated at Lab.
- This certificate pertains only to the item calibrated.
- The calibration results reported in this certificate are valid at the time of and at the stated environmental conditions.
- The calibration interval is determined based on customer's requirements.
- The calibration is traceable to National standards as per traceability details given in the certificate.
- This calibration certificate shall not be reproduced in full, except with prior written approval of Managing Director, SIMCO Calibration Laboratory.
- This calibration certificate is meant for scientific and industrial purpose only.
- The NABL Symbol is used as per NABL guidelines in NABL-133.
- The Expanded Uncertainty is reported approximately at 95.45% confidence level with coverage factor $k=2$.

Shivaji
Calibrated by

P.A. Anandam
Mrs. P.A. Anandam
Technical Head
Authorised Signatory



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8. Calibration Results:

a. Temperature @ 50% RH

| S. No. | Standard Reading (°C) | UUC Reading (°C) | Error (°C) | Expanded Uncertainty in (±°C) |
|--------|-----------------------|------------------|------------|-------------------------------|
| 1 | 9.92 | 10.1 | 0.18 | 0.9 |
| 2 | 19.97 | 20.2 | 0.23 | 0.9 |
| 3 | 40.03 | 40.4 | 0.37 | 0.9 |
| 4 | 60.09 | 60.5 | 0.41 | 0.9 |

b. Relative Humidity @ 29°C

| S. No. | Standard Reading (%RH) | UUC Reading (%RH) | Error (%RH) | Expanded Uncertainty in (± %RH) |
|--------|------------------------|-------------------|-------------|---------------------------------|
| 1 | 19.74 | 20 | 0.26 | 1.2 |
| 2 | 34.37 | 35 | 0.63 | 1.2 |
| 3 | 60.11 | 61 | 0.89 | 1.2 |
| 4 | 94.97 | 96 | 1.03 | 1.2 |

c. Temperature (Probe)

| S. No. | Standard Reading (°C) | UUC Reading (°C) | Error (°C) | Expanded Uncertainty in (±°C) |
|--------|-----------------------|------------------|------------|-------------------------------|
| 1 | -30.031 | -30.3 | -0.269 | 0.4 |
| 2 | 0.028 | 0.1 | 0.072 | 0.4 |
| 3 | 9.807 | 10.2 | 0.393 | 0.4 |
| 4 | 39.929 | 40.3 | 0.401 | 0.4 |
| 5 | 60.035 | 60.5 | 0.465 | 0.4 |

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