

### Calibration Certificate

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| <b>Model Name: PRIETEST TOUCH</b><br><b>Sr. No: ATCD1570413RBK</b><br><b>The Medical Officer,</b><br><b>Govt primary health center,</b><br><b>Thanakkankulam, Madurai dt.</b> | <b>Certificate No.: Analyzer- ATCD -008/ 2023-2024</b> |
|   | <b>Date of Calibration: 28-09-2023</b>                 |
|   | <b>Calibration Due on: 29-09-2024</b>                  |
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#### STANDARD USED FOR CALIBRATION

| Parameters                | Inst. Name & Sr. No.  | Cert. No.        | Calibrated by                             | Validity   |
|---------------------------|---|------------------|---|------------|
| Temperature Calibration   | Digital Thermometer   | UCS/CAL/21100315 | Universal Instrument                      | 31/10/2024 |
| Temperature Calibration   | Digital Thermometer   | UCS/CAL/21100314 | Universal Instrument                      | 31/10/2024 |
| Film readings Calibration | Spectrophotometer, Make: Shimadzu, Model No.: UV-1800, Sr. No. A-1145 4702871 | REG/28/2207      | QC dept. of Reagent Robonik India pvt.ltd | 20/07/2024 |

#### OBSERVATIONS (Temperature Calibration)

| Temperature Details | Incubator Temperature | Cuvette Temperature |
|---------------------|-----------------------|---------------------|
| Thermometer Sr. No. | 025                   | 012                 |
| Obtained Value      | 37.5°c                | 37.4°c              |
| Range               | 37°c (± 1°c)          | 37°c (± 0.5°c)      |

#### OPTICAL FILM READING CALIBRATION

| Wavelength | Film type | Range         | Absorbance Obtained |
|------------|-----------|---------------|---------------------|
| 340 nm     | 1SP       | 0.549 – 0.619 | 0.590               |
|            | 1HP + 1SP | 0.842 – 0.975 | 0.914               |
|            | 1TP       | 1.627 – 1.853 | 1.737               |
|            | 2DP + 1HP | 2.643 – 3.427 | 2.714               |
| 405 nm     | 1SP       | 0.307 – 0.348 | 0.318               |
|            | 1TP       | 0.929 – 1.062 | 1.007               |
|            | 2DP + 1HP | 1.432 – 1.642 | 1.572               |
|            | 3TP       | 2.809 – 3.318 | 3.034               |
| 510 nm     | 1SP       | 0.299 – 0.337 | 0.300               |
|            | 1TP       | 0.913 – 1.054 | 0.997               |
|            | 2DP + 1HP | 1.386 – 1.576 | 1.505               |
|            | 3TP       | 2.784 – 3.232 | 2.997               |
| 545 nm     | 1SP       | 0.264 – 0.313 | 0.286               |
|            | 1TP       | 0.844 – 0.956 | 0.918               |
|            | 2DP + 1HP | 1.287 – 1.446 | 1.393               |
|            | 3TP       | 2.512 – 2.849 | 2.790               |
| 578 nm     | 1SP       | 0.265 – 0.302 | 0.292               |
|            | 1TP       | 0.791 – 0.904 | 0.874               |
|            | 2DP + 1HP | 1.200 – 1.391 | 1.337               |
|            | 3TP       | 2.387 – 2.702 | 2.660               |
| 630 nm     | 1SP       | 0.300 – 0.352 | 0.331               |
|            | 1TP       | 0.977 – 1.115 | 1.065               |
|            | 2DP + 1HP | 1.443 – 1.648 | 1.584               |
|            | 3TP       | 2.806 – 3.230 | 3.165               |

Biochemistry Analyzer bearing serial no. **ATCD4100321RBK** has been calibrated for above parameter and found to be within its acceptance criteria.



calibrated by:



Approved by:

