



CALIBRATION CERTIFICATE

Siddha Regional Research Institute, Poojappura

Thiruvananthapuram

1. Model Name & Sr. No : . EM 200- S200133
2. Range of the instrument: Optical density Linear form 0-2.5 A
3. Precision & Accuracy study on EM 200 done on 306.10.2023
4. Calibration Due Date: 29.10.2024
5. Calibration Done By : Mr. Jibin M T

Reagent / Sample ratio -

| Cup Position | Replicates | Absorbance (X) | SD | CV |
|--------------|------------|----------------|--------|--------|
| Cup 1 | 20 | 1.5438 OD | 0.0054 | 0.40% |
| Cup 2 | 20 | 1.5438 OD | 0.0052 | 0.42 % |
| Cup 3 | 20 | 1.5449 OD | 0.0047 | 0.38% |

Test of Potassium Dichromate ($K_2Cr_2O_7$) on EM-200

| Pipetted / Measured by Em200 | | Manually Pipettes Em200 | | Manually pipetted & read in Autospan | |
|------------------------------|--------|-------------------------|--------|--------------------------------------|--------|
| Low | High | Low | High | Low | High |
| 0.2005 | 1.8670 | 0.1975 | 1.8710 | 0.2025 | 1.7630 |
| | | | | | |





This instrument is manufactured in accordance with the European law in force, in particular to "Electricity Safety" EN 610101 and "Electromagnetic Compatibility " EN 61326 Standards.

| | Ideal | Actual |
|--------------|-------------------|-------------------|
| Pressure | 0.9 bar | 0.93bar |
| Lamp Voltage | 11.87 V | 12.0V |
| Temperature | 37 ⁰ C | 37 ⁰ C |

| | |
|------------------------------|----|
| Photometer Calibration Check | Ok |
| Cuvette Blank Check | Ok |

| Wavelength | Off Set | Gain |
|------------|---------|------|
| 340 | 255 | 481 |
| 405 | 255 | 464 |
| 505 | 255 | 453 |
| 546 | 255 | 520 |
| 578 | 255 | 471 |
| 600 | 255 | 473 |
| 660 | 255 | 470 |
| 700 | 255 | 451 |

The instrument does photometer check before each batch of tests is run. It will give an error message if the photometer test fails and it will not run any samples.

Thanking you and assuring of our prompt attention at all times.

Yours faithfully,
For Transasia Bio- Medicals Ltd,

Sajin S Nair
Sajin S Nair
Regional Service Manager
Cochin

