



Date: 14th April '2021

**Polo Labs Pvt. Ltd.,
Khanna.**

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

1. Instrument & Serial No.: **Erba EM-200-Serial No. B140713.**
2. Range of the instrument: Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM-200 done on 14-04-2021 & valid upto 13-04-2022.

Precision with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample ratio -

| Cup Position | Replicates | Absorbance (X) | SD | CV |
|--------------|------------|----------------|--------|-------|
| Cup 1 | 20 | 1.5633 OD | 0.0054 | 0.47% |
| Cup 2 | 20 | 1.5861 OD | 0.0069 | 0.53% |
| Cup 3 | 20 | 1.5982 OD | 0.073 | 0.51% |

Accuracy study with Potassium Dichromate ($K_2Cr_2O_7$) in comparison with EM-200

Wavelengths scan on Referral Spectrophotometer for Potassium Dichromate ($K_2Cr_2O_7$)



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| Wavelength | Spectrophotometer OD | |
|------------|----------------------|--------|
| | Low | High |
| 335 | 0.1882 | 1.7351 |
| 336 | 0.1958 | 1.7429 |
| 337 | 0.1979 | 1.7830 |
| 338 | 0.2011 | 1.8123 |
| 339 | 0.2038 | 1.8320 |
| 340 | 0.2079 | 1.8731 |
| 341 | 0.2153 | 1.9021 |
| 342 | 0.2179 | 1.9356 |
| 343 | 0.2205 | 1.9761 |
| 344 | 0.2303 | 2.0124 |
| 345 | 0.2352 | 2.0520 |



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

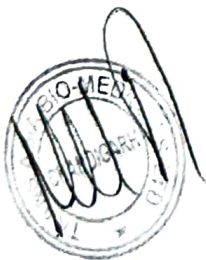
| Pipetted/Measured by EM 200 | | Manually Pipettes EM | | Manually pipetted & read in Autospan | |
|-----------------------------|--------|----------------------|--------|--------------------------------------|--------|
| Low | High | Low | High | Low | High |
| 0.2031 | 1.8205 | 0.1858 | 1.8690 | 0.2112 | 1.9532 |

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.

| Pressure | Ideal | Actual |
|--------------|---------|---------|
| | 0.9 bar | 0.92bar |
| Lamp Voltage | 12 V | 12.01 V |
| Temperature | 37° C | 37° C |

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

| Wavelength | Off Set | Gain |
|------------|---------|------|
| 340 | NA | 680 |
| 405 | NA | 481 |
| 505 | NA | 563 |
| 546 | NA | 479 |
| 578 | NA | 539 |
| 600 | NA | 435 |
| 660 | NA | 381 |
| 700 | NA | 432 |



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TRANSASIA®

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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.**

Rashpal Singh Rana
Sr. Regional Service Manager

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