



Date : December 03, 2023

**Regional Research Institute of Unani Medicine,
Srinagar**

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

1. Instrument & Serial No.: **Erba EM-200-Serial No. B2001577**
2. Range of the instrument: Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM-200 done on 03-12-2023 & valid upto 02-12-2024.

Precision with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.5641 OD	0.0058	0.50%
Cup 2	20	1.5863 OD	0.0071	0.51%
Cup 3	20	1.5980 OD	0.0071	0.52%

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

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



Contd..2



::2::

Wavelength	Spectrophotometer OD	
	Low	High
335	0.1881	1.7350
336	0.1970	1.7438
337	0.1988	1.7820
338	0.2009	1.8092
339	0.2052	1.8421
340	0.2081	1.8538
341	0.2120	1.8910
342	0.2139	1.9100
343	0.2208	1.9459
344	0.2310	1.9980
345	0.2354	2.0134



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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
0.2020	1.8210	0.1850	1.8673	0.2120	1.9579

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	12.00 V
Temperature	37° C	37° C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	NA	680
405	NA	481
505	NA	508
546	NA	475
578	NA	541
600	NA	432
660	NA	380
700	NA	434



Contd...4




-4-

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.**


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