



Date : 27<sup>th</sup> January '2021

**Sure Diagnostic Lab,  
Jammu.**

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

1. Instrument & Serial No.: **Erba EM-200-Serial No.B-2001134.**
2. Range of the instrument: Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM-200 done on 27-01-2021 & valid upto 26-01-2022.

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 comparision 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<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>) 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 Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	NA	686
405	NA	479
505	NA	563
546	NA	485
578	NA	536
600	NA	435
660	NA	379
700	NA	431



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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**

M: +91-9316004670

E mail: [r.rana@transasia.co.in](mailto:r.rana@transasia.co.in)