



Date: 17<sup>th</sup> February 2023

## Amar Hospital, Patiala.

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

1. Instrument & Serial No.: **EM 360, Serial No. 601090.**
2. Range of the instrument: Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM-360 done on February 17, 2023.
4. Validity of this Calibration Certificate is till February 16, 2024.

Precision with Potassium Dichromate ( $K_2Cr_2O_7$ )

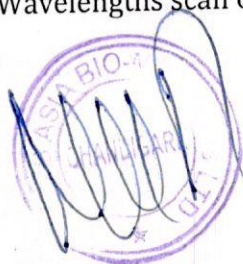
Reagent / Sample ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.5409 OD	0.0059	0.43%
Cup 2	20	1.5589 OD	0.0057	0.41 %
Cup 3	20	1.5432 OD	0.0046	0.40%

**Accuracy study with Potassium Dichromate ( $K_2Cr_2O_7$ ) in comparison with EM-360**

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

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Wavelength	Spectrophotometer OD	
	Low	High
335	0.1887	1.7213
336	0.1907	1.7620
337	0.1967	1.8119
338	0.1979	1.8676
339	0.2044	1.8980
340	0.2078	1.9130
341	0.2118	1.9629
342	0.2173	2.9891
343	0.2210	2.0160
344	0.2290	2.0402
345	0.2312	2.0659



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## Test of Potassium Dichromate (K<sub>2</sub>Cr<sub>2</sub>O<sub>7</sub>) on EM-360

Pipetted / Measured by EM 360		Manually Pipettes EM		Manually pipetted & read in Autospan	
Low	High	Low	High	Low	High
0.2002	1.8734	0.1980	1.8872	0.2042	1.7578

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.

Item	Ideal	Actual
Pressure	0.9 bar	0.8 bar
Lamp Voltage	12 V	12.00 V
Temperature	37° C	37.0 ° C

Photometer Calibration Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	NA	89
376	NA	123
415	NA	120
450	NA	129
480	NA	138
505	NA	121
546	NA	119
570	NA	132
600	NA	131
660	NA	125
700	NA	132
750	NA	145

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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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