



UNMATCHED SERVICE
SINCE 1979...

Ref No. TSD/RJ-BKN/1010

Date : 25 OCT 2020

**DR. BOTHRA'S DIAGNOSTIC CENTER
PAWAN PURI
BIKANER, RAJASTHAN**

Dear Sir/ Madam ,

As desired by you please find herewith the Calibration report

1. Year of manufacturing : 2014 Sr No. B200077
2. Range of the instrument : Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM - 200
4. Date of calibration : 25th OCT 2020

Precision with Potassium Dichromate ($K_2Cr_2O_7$)
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%

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

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

Wavelength	Spectrophotometer OD	
	Low	High
340	0.1874	1.7437
376	0.1902	1.7803
415	0.1936	1.8217
450	0.1976	1.8629
480	0.2021	1.9055
505	0.2009	1.9479
546	0.2115	1.9875
570	0.2163	2.0226
600	0.2212	2.0588
660	0.2255	2.0845



700	0.2290	2.1089
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Test of Potassium Dichromate ($K_2Cr_2O_7$) on EM-200

Pipetted / Measured by XL-300		Manually Pipettes XL		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.

Pressure	Ideal	Actual
	0.9 bar	0.89 bar
Lamp Voltage	12 V	12.07V
Temperature	37 ⁰ C	37 ⁰ C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	76
376	255	69
415	255	65
450	255	87
480	255	79
505	255	73
546	255	94
570	255	78
600	255	85
660	255	96
700	255	146
750	255	177



**The Calibrator used: Multical
Lot No: 1707039C
Expiry Date: November2021**

**The Control used : ERBA
Lot No : S2001245
Expiry date :2021November**

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.**

KAILASH PANCHARIYA

SR. SERVICE ENGINEER