



CALIBRATION CERTIFICATE

Date: 07 July 2020

**ABC MICRO LAB,
VAIYAPURI NAGAR 4TH CROSS,
KARUR-2**

Dear Sir/ Madam,

As desired by you please find herewith the Calibration report

1. Range of the instrument: Optical density Linear form 0-3.5 A
2. Precision & Accuracy study on EM-200. Sr.No B2001084
3. Date of calibration: 07 July 2020
4. Next calibration due: 06 July 2021

Precison 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 Spectrophotometer for Potassium Dichromate ($K_2Cr_2O_7$)



Wavelength	Spectrophotometer OD	
	Low	High
340	0.1874	1.7437
405	0.1902	1.7803
415	0.1936	1.8217
505	0.1976	1.8629
546	0.2021	1.9055
600	0.2009	1.9479
660	0.2115	1.9875
700	0.2163	2.0226

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

Pipetted / Measured by EM-200		Manually Pipettes XL		Manually pipetted & read in Autospan	
Low	High	Low	High	Low	High
0.2005	1.8570	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



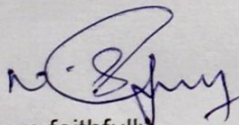
Wavelength	Off Set	Gain
340	257	575
405	255	586
415	258	600
505	260	602
546	255	589
600	271	600
660	252	605
700	258	550

The Calibrator used: ErbaMultical
Lot No: 1701084A
Expiry Date: 30-JUN-2021

The Control used: Erba Norm
Lot No: B051709
Expiry Date: 31- AUG-2021

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,
Ayyappan N

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