



Date : 24th March 2023

Raha Diagnostics
Vadakked
Thrissur, Kerala
Pin-679562

Dear Sir/ Madam ,

As desired by you please find herewith the Calibration report

1. Year of manufacturing : 2021 Sr No. V200060
2. Range of the instrument : Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM - 200
4. Date of calibration : 23th March 2023

Precision with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.641 OD	0.0044	0.38%
Cup 2	20	1.646 OD	0.0046	0.40%
Cup 3	20	1.643 OD	0.0045	0.39%

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
335	0.1874	1.7437
336	0.1902	1.7803
337	0.1936	1.8217
338	0.1976	1.8629
339	0.2021	1.9055
340	0.2009	1.9479
341	0.2115	1.9875
342	0.2163	2.0226
343	0.2212	2.0588
344	0.2255	2.0845
345	0.2290	2.1089



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

Pipetted / Measured by Em200		Manually Pipettes Em200		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	0.94 bar
Lamp Voltage	12 V	12.07V
Temperature	37 ^o C	37 ^o C

Photometer Calibration Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	606
405	255	637
505	255	625
546	255	639
578	255	649
600	255	541
660	255	553
700	255	540



The Calibrator used: Multical
Lot No: 2110192
Expiry Date: June 2023

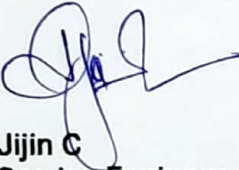
The Control used : Bio-Rad (lev1,level2)
Lot No : 26481,26482
Expiry date : 2023 July

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.



Jijin C
Service Engineer
Thrissur

