



Ref No. TS/SBP/5782

Date : 1<sup>st</sup> JAN' 2020

**Dr. Dharap's Diagnostic Centre**  
**1st Floor, Limaye Niwas, Baburao Parulekar Rd,**  
**Dadar West, Mumbai, Maharashtra 400028**

Dear Sir/ Madam ,

As desired by you please find herewith the Calibration report

1. Year of manufacturing : 2019 Sr No.B2001527
2. Range of the instrument : Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM200
4. Date of calibration : 1<sup>th</sup>JAN 2020
5. Due Date of Calibration:- 31st DEC 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 EM200**

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 EM200

Pipetted / Measured by EM200		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 <sup>0</sup> C	37 <sup>0</sup> C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	476
405	255	487
480	255	479
505	255	473
546	255	494
576	255	485
600	255	476
670	255	496



**Calibrator used: True Cal**  
**Lot No: 121829**  
**Expiry Date: FEB 2020**

**The Control used : Bio-Rad (lev1,level2)**  
**Lot No : 16712,17352**  
**Expiry date : 2020 Nov**

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.**



**REGIONAL SERVICE MANAGER**