



Ref No. TSD/RJ/1010

Date :12 SEP 2023

R.A.R.I
JAIPUR, RAJASTHAN

Dear Sir/ Madam ,

As desired by you please find herewith the Calibration report

1. Year of manufacturing : 2015 Sr No. B150314
2. Range of the instrument : Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on XL 200
4. Date of calibration : 12- SEP-2023

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 XL-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
505	0.1936	1.8217
546	0.1976	1.8629
578	0.2021	1.9055
600	0.2009	1.9479
660	0.2115	1.9875
700	0.2163	2.0226



Test of Potassium Dichromate (K₂Cr₂O₇) on XL 200

Pipetted / Measured by XL-200		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° C	37 ° C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	76
405	255	69
505	255	65
546	255	87
578	255	79
600	255	73
700	255	94

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,

ANKUSH JAIN
APPLICATION SPECIALIST
For **TRANSASIA BIO-MEDICALS LTD.**

