



UNMATCHED SERVICE
SINCE 1979...

Date :26/02/2021

**National Ayurveda Research Institute for Panchakarma
Cheruthuruthy
Thrissur, Kerala
Pin-679531**

Dear Sir/ Madam ,

As desired by you please find herewith the Calibration report

1. Year of manufacturing : 2020 Sr No. **640278**
2. Range of the instrument : Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on **XL 640**
4. Date of calibration : **26th February 2021**

Precision with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.621 OD	0.0041	0.41%
Cup 2	20	1.624 OD	0.0038	0.39 %
Cup 3	20	1.623 OD	0.0041	0.38%

Accuracy study with Potassium Dichromate ($K_2Cr_2O_7$) in comparison with XL-640

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	2.0840
345	0.2290	2.1089



Test of Potassium Dichromate ($K_2Cr_2O_7$) on XL-640

Pipetted / Measured by xl640		Manually Pipettes xl640		Manually pipetted & read in Autospan	
Low	High	Low	High	Low	High
0.2010	1.8570	0.1970	1.8720	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
	1 bar	0.99 bar
Lamp Voltage	12 V	11.95V
Temperature	37 ^o C	37 ^o C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	126
376	255	131
415	255	138
450	255	119
480	255	116
505	255	138
546	255	136
570	255	132
600	255	123
660	255	148
700	255	138
750	255	130

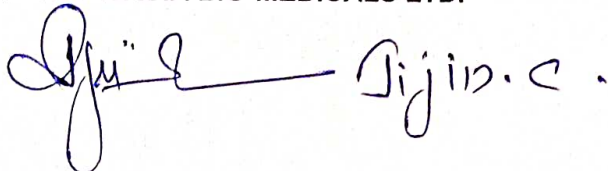
The Calibrator used: Multical
Lot No: 2005093B
Expiry Date: November2022

The Control used : Bio-Rad (lev1,level2)
Lot No :26481,26482
Expiry date :2022July

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.

A handwritten signature in black ink, appearing to read "Sijin. C.", written over a horizontal line.

REGIONAL SERVICE MANAGER