



VIBRANT Dx.,

3-A, KUMARAN STREET, BALAMBIGAI FLATS, KEELKATTALAI, CHENNAI-600117
Mobile: 9360157929 ; e-mail: vibrantdx@gmail.com

CALIBRATION CERTIFICATE

Ref No. VDX/EBPL/CC-001
Date : 6th January '2024

EKKA BIOLOGICALS PVT LTD.,
Phase 1, First Avenue,
Mogappair West First Main Road,
Nolambur,
Chennai-600037

Dear Sirs,

As desired by you please find the Calibration report on MINDRAY - BS-240

Sr No. YX-19004644

1. Year of Manufacturing : 2021 ; BS-240 Sr. No. YX-19004644
2. Range of the Instrument : Optical density Linear form 0 - 4.0A
3. Precision & Accuracy study on BS-240
4. Next Calibration Due: 5th January ' 2025

Precison with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample Ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.5338 OD	0.0054	0.40%



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Cup 2	20	1.5338 OD	0.0052	0.42 %
Cup 3	20	1.5349 OD	0.0047	0.38%

Accuracy study with Potassium Dichromate ($K_2Cr_2O_7$) in comparison with BS-240

Wavelengths scan on Referral Spectrophotometer for Potassium Dichromate ($K_2Cr_2O_7$)

Wavelength	Spectrophotometer OD	
	Low	High
335	0.1874	1.7436
336	0.1902	1.7803
337	0.1936	1.8217
338	0.1976	1.8629
339	0.2021	1.9053
340	0.2009	1.9478
341	0.2115	1.9975
342	0.2163	2.0236
343	0.2212	2.0589
344	0.2255	2.0846
345	0.2290	2.1089



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Test of Potassium Dichromate ($K_2Cr_2O_7$) on BS-240

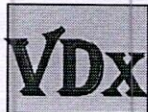
Pipetted / Measured by BS-240		Pipetted / Measured by BS-240		Manually pipetted & read in Auto-span	
Low	High	Low	High	Low	High
0.2005	1.7570	0.2000	1.7550	0.2025	1.7630

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.

Input Voltage	229 VAC	O.K
Ambient Temperature	30 ⁰ C	O.K

Pressure	Ideal	Actual
Lamp Voltage	12 V	11.80 V
Temperature	37 ⁰ C	37 ⁰ C

Photometer Calibration Check	O.K
Cuvette Blank Check	O.K



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Wavelength	Abs	Status
340	9935	O.K
405	8215	O.K
510	7498	O.K
546	6790	O.K
578	7197	O.K
630	6591	O.K
670	6367	O.K
700	6328	O.K

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 **VIBRANT DX,**

S.Murlidharan
Manager-Technical

