



Ref No : TSD/NEYD/3501

Date : 03 MAY 2022

**NEYVELI DIAGNOSTICS CENTRE,
DR. RADHAKRISHNAN SALAI,
BLOCKII, NEYVELI-607803**

Dear Sir/ Madam,

As desired by you please find herewith the Calibration report

Manufacturer detail : EM 200 S.R NO: B150406
Range of the instrument : Optical density Linear form 0-3.5 A
Date of calibration : 26 APR 2022
Next calibration due date : 25 APR 2023

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 EM - 200

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

Wavelength	Spectrophotometer OD	
	Low	High
335	0.1874	1.7437
367	0.1902	1.7803
423	0.1936	1.8217
353	0.1976	1.8629
468	0.2021	1.9055
527	0.2009	1.9479
653	0.2115	1.9875
486	0.2163	2.0226
568	0.2212	2.0588
594	0.2255	2.0845

Test of Potassium Dichromate ($K_2Cr_2O_7$) on XL-600

Pipetted / Measured by XL-300		Manually XL	Pipettes	Manually pipetted & read in Autospan	
Low	High	Low	High	Low	High
0.2005	1.9785	0.2010	1.9795	0.2009	1.9788

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
	1.0 bar	0.95 bar
Lamp Voltage	12 VDC	12.07V
Temperature	37° C	37° C



Photometer Calibration Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	387
376	255	327
415	255	443
450	255	367
480	255	351
505	255	467
546	255	521
570	255	389
600	255	357
660	255	443

The Calibrator used: Multical
Lot No: 3005072E
Expiry Date: December 2022

The Control used : Bio-Rad (level 1, level 2)
Lot No : 52024, 52024
Expiry date : DEC 2022

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.

For


REGIONAL SERVICE MANAGER

TRANSASIA BIO MEDICALS LTD.
New No. 19, Dr. Ranga Road,
Jupiter Complex, 3rd Floor,
Mylapore, Chennai - 600 004



CONTROL RUN RESULT:

Sl.No	Test Carried Out	Result	Normal Range
01	Glucose	88	75-99 mg/dl
02	Renal Function Test-Creatinine	1.10	0.8-1.34 mg/dl
03	(ALT/SGPT)	42	34-52 u/l
04	(AST/SGOT)	44	35-53 u/l
05	Total Bilirubin	1.43	1.10-1.83 mg/dl
06	Direct Bilirubin	0.5	0.45-0.74 mg/dl
07	Alkaline Phosphate(ALP)	133	108-162 mg/dl
08	Lipid Profile-Triglyceride	116	93-126 mg/dl
09	Lipid Profile-Cholesterol	149	119-161 mg/dl
10	Electrolyte-Sodium	136	123-147 mmol/L
11	Electrolyte-Potassium	3.8	3.5-4.3 mmol/L
12	Electrolyte-Chloride	108	93-126 mmol/L
13	HDL- Cholesterol	48	37-56 mg/dl
14	LDL- Cholesterol	78	60-90 mg/dl
15	RFT-Uric acid	6.2	5.2-7.04 mg/dl
16	Gamma Glut-amyl Transferase	38.6	34-59 u/l
17	RFT-Urea	36.71	32-42 mg/dl
18	Total Calcium	8.3	6.9-9.4 mg/dl
19	Liver Function Test-Albumin	3.61	3.0-4.0 g/l
20	Liver Function Test-Total Protein	6.0	5.0-6.7 g/l

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Accuracy and Repeatability Test Data(Precision):

Sl.No	Test Carried Out	Value-1	Value-2	Value-3	Value-4	Value-5	Mean	CV	SD
01	Glucose	98.5	98.3	100.1	99.9	98.0	98.6	0.88	0.87
02	Renal Function Test-Creatinine	0.74	0.70	0.79	0.88	0.81	0.78	7.85	0.06
03	ALT/SGPT	23.6	22.9	23.2	23.9	22.4	23.2	2.26	0.53
04	AST/SGOT	17.4	17.0	17.7	18.8	18.5	17.88	3.77	0.67
05	Total Bilirubin	0.63	0.66	0.60	0.59	0.68	0.63	5.43	0.03
06	Direct Bilirubin	0.21	0.24	0.27	0.30	0.28	0.26	12.16	0.03
07	Alkaline Phosphate (ALP)	88.4	88.3	91.4	91.9	90.7	90.14	1.68	1.51
08	Lipid Profile-Triglyceride	119.6	118.1	120.3	120.0	118.2	119.24	0.77	0.92
09	Lipid Profile-Cholesterol	179.4	179.2	181.5	180.4	180.6	180.22	0.47	0.84
10	Electrolyte-Sodium	136.5	136.9	137.3	137.0	136.2	136.78	0.28	0.39
11	Electrolyte-Potassium	3.80	3.60	3.70	3.81	3.88	3.76	2.6	0.1
12	Electrolyte-Chloride	99.4	99.9	100.5	100.1	99.3	99.84	0.45	0.45
13	HDL- Cholesterol	36.17	35.10	36.90	36.34	35.11	35.92	1.98	0.71
14	LDL- Cholesterol	119.2	119.0	120.4	119.8	118.4	119.36	0.57	0.69
15	RFT-Uric acid	4.3	4.16	4.33	4.40	4.1	4.26	2.61	0.11
16	Gamma GlutamylTransferase	21.15	21.60	21.96	22.4	22.0	21.82	1.93	0.42
17	RFT-Urea	16.1	16.3	15.9	15.4	16.2	15.98	1.99	0.32
18	Total Calcium	9.3	9.3	9.10	9.18	9.24	9.22	0.83	0.08
19	Liver Function Test-Albumin	3.55	3.58	3.90	3.78	3.69	3.7	3.49	0.13
20	Liver Function Test-Total Protein	6.9	6.8	6.8	6.9	7.0	6.88	1.09	0.07

(* Ten times repeated only five time report added for accuracy)

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