



## CALIBRATION CERTIFICATE

**EI-Even Laboratories  
Changampuzha Nagar  
South Kalamassery  
Cochin**

Model Name & Sr. No : . EM 200- V200058  
Range of the instrument: Optical density Linear form 0-2.5 A  
Precision & Accuracy study on EM 200 done on 10-01-2022  
Calibration Due Date: 09-01-2023  
Calibration Done By : Mr. Manu K Raghunath

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%

### Test of Potassium Dichromate ( $K_2Cr_2O_7$ ) on EM-200

Pipetted / Measured by Em200		Manually Pipettes Em200		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.

	Ideal	Actual
Pressure	0.9 bar	0.93bar
Lamp Voltage	11.87 V	12.0V
Temperature	37 <sup>o</sup> C	37 <sup>o</sup> C

Photometer Calibration Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	255	556
405	255	535
505	255	520
546	255	487
578	255	510
600	255	467
660	255	492
700	255	460

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 Sajin S Nair*

**Sajin S Nair**  
Regional Service Manager  
Cochin



**Internal Quality Control Results**

<i>QC Name</i>	<i>Randox QC</i>
<i>InstrumentName</i>	<i>EM 200- V200058</i>
<i>Date of Testing</i>	<i>07/04/2022</i>
<i>QC Lot Number</i>	<i>1543UN</i>

<i>Sl No</i>	<i>Parameters</i>	<i>Result</i>	<i>Unit</i>	<i>QC Range</i>	<i>Status</i>
<i>1.</i>	Glucose	<i>112.3</i>	<i>mg/dL</i>	<i>86.1-135.9</i>	<i>Valid</i>
<i>2.</i>	Creatinine	<i>1.34</i>	<i>mg/dL</i>	<i>1.02-1.92</i>	<i>Valid</i>
<i>3.</i>	ALT/SGPT	<i>34.5</i>	<i>mg/dL</i>	<i>29-53</i>	<i>Valid</i>
<i>4.</i>	AST/SGOT	<i>31.7</i>	<i>mg/dL</i>	<i>25.5-46.5</i>	<i>Valid</i>
<i>5.</i>	Total Bilirubin	<i>1.76</i>	<i>mg/dL</i>	<i>1.14-2.22</i>	<i>Valid</i>
<i>6.</i>	Alkaline Phosphatase	<i>301</i>	<i>mg/dL</i>	<i>196-364</i>	<i>Valid</i>
<i>7.</i>	Triglyceride	<i>93.6</i>	<i>mg/dL</i>	<i>73.55-119.45</i>	<i>Valid</i>
<i>8.</i>	Cholesterol	<i>150</i>	<i>mg/dL</i>	<i>125.5-188.5</i>	<i>Valid</i>
<i>9.</i>	HDL – Cholesterol	<i>40.1</i>	<i>mg/dL</i>	<i>30.05-54.35</i>	<i>Valid</i>
<i>10.</i>	Uric acid	<i>6.0</i>	<i>mg/dL</i>	<i>4.64-6.86</i>	<i>Valid</i>
<i>11.</i>	Urea	<i>45.2</i>	<i>mg/dL</i>	<i>34-53.8</i>	<i>Valid</i>
<i>12.</i>	Amylase	<i>84</i>	<i>mg/dL</i>	<i>75-101</i>	<i>Valid</i>
<i>13.</i>	Total Calcium	<i>8.9</i>	<i>mg/dL</i>	<i>7.90-9.58</i>	<i>Valid</i>
<i>14.</i>	Albumin	<i>3.90</i>	<i>mg/dL</i>	<i>3.13-4.99</i>	<i>Valid</i>
<i>15.</i>	Total Protein	<i>5.76</i>	<i>mg/dL</i>	<i>4-7.48</i>	<i>Valid</i>

Yours faithfully,  
For Transasia Bio- Medicals Ltd,

*Sajin S Nair*  
Sajin S Nair  
Regional Service Manager  
Cochin



## Result Reprint

Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
1	XYZ1234	BLANK	SGPTD	-0.0004 -	RgtAbsMin	6070	7-Apr-2022 10:32:18
2	XYZ1234	BLANK	SGPTD	-0.0003 -	RgtAbsMin	6071	7-Apr-2022 10:32:36
3	XYZ1234	BLANK	SGPTD	-0.0004 -	RgtAbsMin	6072	7-Apr-2022 10:32:54
4	2105079B	MULTICAL	SGPTD	-0.0321 -		6073	7-Apr-2022 10:33:12
5	2105079B	MULTICAL	SGPTD	-0.0325 -		6074	7-Apr-2022 10:33:30
6	2105079B	MULTICAL	SGPTD	-0.0323 -		6075	7-Apr-2022 10:33:48
7	XYZ1234	BLANK	SGOTD	-0.0003 -		6077	7-Apr-2022 10:34:24
8	XYZ1234	BLANK	SGOTD	-0.0002 -		6078	7-Apr-2022 10:34:42
9	XYZ1234	BLANK	SGOTD	-0.0003 -		6079	7-Apr-2022 10:35:00
10	2105079B	MULTICAL	SGOTD	-0.0381 -		6080	7-Apr-2022 10:35:18
11	2105079B	MULTICAL	SGOTD	-0.0383 -		6081	7-Apr-2022 10:35:36
12	2105079B	MULTICAL	SGOTD	-0.0382 -		6082	7-Apr-2022 10:35:54
13	XYZ1234	BLANK	ALPU	0.0006 -		6084	7-Apr-2022 10:36:30
14	XYZ1234	BLANK	ALPU	0.0006 -		6085	7-Apr-2022 10:36:48
15	2105079B	MULTICAL	ALPU	0.0535 -		6086	7-Apr-2022 10:37:07
16	2105079B	MULTICAL	ALPU	0.0539 -		6087	7-Apr-2022 10:37:25
17	XYZ1234	BLANK	GGT	0.0009 -		6089	7-Apr-2022 10:38:01

Print Date

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# Result Reprint

Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
18	XYZ1234	BLANK	GGT	0.0013 -		6090	7-Apr-2022 10:38:19
19	XYZ1234	BLANK	GGT	0.0011 -		6091	7-Apr-2022 10:38:37
20	2105079B	MULTICAL	GGT	0.0623 -		6092	7-Apr-2022 10:38:55
21	2105079B	MULTICAL	GGT	0.0618 -		6093	7-Apr-2022 10:39:13
22	2105079B	MULTICAL	GGT	0.0613 -		6094	7-Apr-2022 10:39:31
23	XYZ1234	BLANK	BDDCA	0.0004 -		6096	7-Apr-2022 10:40:07
24	XYZ1234	BLANK	BDDCA	0.0006 -		6097	7-Apr-2022 10:40:25
25	XYZ1234	BLANK	BDDCA	0.0007 -		6098	7-Apr-2022 10:40:43
26	2105079B	MULTICAL	BDDCA	0.0531 -		6099	7-Apr-2022 10:41:01
27	2105079B	MULTICAL	BDDCA	0.0527 -		6100	7-Apr-2022 10:41:19
28	2105079B	MULTICAL	BDDCA	0.0529 -		6101	7-Apr-2022 10:41:37
29	XYZ1234	BLANK	BTDCA	0.0261 -		6103	7-Apr-2022 10:42:13
30	XYZ1234	BLANK	BTDCA	0.0257 -		6104	7-Apr-2022 10:42:31
31	XYZ1234	BLANK	BTDCA	0.0261 -		6105	7-Apr-2022 10:42:50
32	2105079B	MULTICAL	BTDCA	0.1632 -		6106	7-Apr-2022 10:43:08
33	2105079B	MULTICAL	BTDCA	0.1631 -		6107	7-Apr-2022 10:43:25
34	2105079B	MULTICAL	BTDCA	0.1620 -		6108	7-Apr-2022 10:43:43

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Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
35	XYZ1234	BLANK	UREA	-0.0049 -		6110	7-Apr-2022 10:44:20
36	XYZ1234	BLANK	UREA	-0.0045 -		6111	7-Apr-2022 10:44:38
37	XYZ1234	BLANK	UREA	-0.0049 -		6112	7-Apr-2022 10:44:56
38	2105079B	MULTICAL	UREA	-0.1215 -		6113	7-Apr-2022 10:45:14
39	2105079B	MULTICAL	UREA	-0.1227 -		6114	7-Apr-2022 10:45:32
40	2105079B	MULTICAL	UREA	-0.1216 -		6115	7-Apr-2022 10:45:50
41	XYZ1234	BLANK	CRENZ	0.0082 -		6117	7-Apr-2022 10:46:26
42	XYZ1234	BLANK	CRENZ	0.0083 -		6118	7-Apr-2022 10:46:44
43	XYZ1234	BLANK	CRENZ	0.0083 -		6119	7-Apr-2022 10:47:02
44	2105079B	MULTICAL	CRENZ	0.0850 -		6120	7-Apr-2022 10:47:20
45	2105079B	MULTICAL	CRENZ	0.0851 -		6121	7-Apr-2022 10:47:38
46	2105079B	MULTICAL	CRENZ	0.0844 -		6122	7-Apr-2022 10:47:56
47	XYZ1234	BLANK	GLU	0.0266 -		6124	7-Apr-2022 10:48:33
48	XYZ1234	BLANK	GLU	0.0273 -		6125	7-Apr-2022 10:48:51
49	XYZ1234	BLANK	GLU	0.0265 -		6126	7-Apr-2022 10:49:08
50	2105079B	MULTICAL	GLU	0.6761 -		6127	7-Apr-2022 10:49:27
51	2105079B	MULTICAL	GLU	0.6647 -		6128	7-Apr-2022 10:49:45

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# Result Reprint

Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
52	2105079B	MULTICAL	GLU	0.6700 -		6129	7-Apr-2022 10:50:03
53	XYZ1234	BLANK	TRIG	0.0152 -		6131	7-Apr-2022 10:50:39
54	XYZ1234	BLANK	TRIG	0.0142 -		6132	7-Apr-2022 10:50:57
55	XYZ1234	BLANK	TRIG	0.0143 -		6133	7-Apr-2022 10:51:15
56	2105079B	MULTICAL	TRIG	0.2312 -		6134	7-Apr-2022 10:51:33
57	2105079B	MULTICAL	TRIG	0.2297 -		6135	7-Apr-2022 10:51:51
58	2105079B	MULTICAL	TRIG	0.2340 -		6136	7-Apr-2022 10:52:09
59	XYZ1234	BLANK	CHOL	0.0489 -		6138	7-Apr-2022 10:52:45
60	XYZ1234	BLANK	CHOL	0.0488 -		6139	7-Apr-2022 10:53:03
61	XYZ1234	BLANK	CHOL	0.0491 -		6140	7-Apr-2022 10:53:21
62	2105079B	MULTICAL	CHOL	0.2952 -		6141	7-Apr-2022 10:53:39
63	2105079B	MULTICAL	CHOL	0.2962 -		6142	7-Apr-2022 10:53:57
64	2105079B	MULTICAL	CHOL	0.2964 -		6143	7-Apr-2022 10:54:16
65	XYZ1234	BLANK	UA	0.0023 -		6146	7-Apr-2022 10:55:10
66	XYZ1234	BLANK	UA	0.0026 -		6147	7-Apr-2022 10:55:28
67	XYZ1234	BLANK	UA	0.0025 -		6148	7-Apr-2022 10:55:46
68	2105079B	MULTICAL	UA	0.0771 -		6149	7-Apr-2022 10:56:04

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## Result Reprint

Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
69	2105079B	MULTICAL	UA	0.0783 -		6150	7-Apr-2022 10:56:22
70	2105079B	MULTICAL	UA	0.0765 -		6151	7-Apr-2022 10:56:40
71	XYZ1234	BLANK	ALBD	0.0583 -		6153	7-Apr-2022 10:57:16
72	XYZ1234	BLANK	ALBD	0.0586 -		6154	7-Apr-2022 10:57:34
73	XYZ1234	BLANK	ALBD	0.0584 -		6155	7-Apr-2022 10:57:52
74	2105079B	MULTICAL	ALBD	0.6265 -		6156	7-Apr-2022 10:58:10
75	2105079B	MULTICAL	ALBD	0.6329 -		6157	7-Apr-2022 10:58:28
76	2105079B	MULTICAL	ALBD	0.6255 -		6158	7-Apr-2022 10:58:46
77	XYZ1234	BLANK	PRO	0.1093 -		6160	7-Apr-2022 10:59:22
78	XYZ1234	BLANK	PRO	0.1007 -		6161	7-Apr-2022 10:59:40
79	2105079B	MULTICAL	PRO	0.4501 -		6162	7-Apr-2022 10:59:58
80	2105079B	MULTICAL	PRO	0.4497 -		6163	7-Apr-2022 11:00:17
81	XYZ1234	BLANK	HDLC	0.0079 -		6166	7-Apr-2022 11:44:52
82	XYZ1234	BLANK	HDLC	0.0080 -		6167	7-Apr-2022 11:45:10
83	XYZ1234	BLANK	HDLC	0.0080 -		6168	7-Apr-2022 11:45:29
84	2109063	HDL LDL CAL	HDLC	0.1015 -		6169	7-Apr-2022 11:45:47
85	2109063	HDL LDL CAL	HDLC	0.1038 -		6170	7-Apr-2022 11:46:04

Print Date 11-Apr-2022



*Result Reprint*

Report Type : Calibration 07-Apr-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
86	2109063	HDL LDL CAL	HDLC	0.1006 -		6171	7-Apr-2022 11:46:23

## Result Reprint

Report Type : Calibration 18-Apr-2022

Test: CA

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
1	XYZ1234	BLANK	CA	0.1717 -		6602	18-Apr-2022 11:10:26
2	2105079B	MULTICAL	CA	0.5259 -		6603	18-Apr-2022 11:10:44

# Result Reprint

Report Type : Calibration

01-Jan-2022 To 18-Apr-2022

Test: AMY

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date
1	XYZ1234	BLANK	AMY	0.0001 -		20	13-Jan-2022 13:44:26
2	2105079B	MULTICAL	AMY	0.0679 -		21	13-Jan-2022 13:44:44