



Date : February 11, 2022

**Dr. Vohras Medilab,
Panchkula.**

Dear Sir,

As desired by you please find enclosed herewith the Calibration report

1. Instrument & Serial No.: **Erba EM-200-Serial No. 2002214.**
2. Range of the instrument: Optical density Linear form 0-3.5 A
3. Precision & Accuracy study on EM-200 done on 11-02-2022 & valid upto 10-02-2023.

Precision with Potassium Dichromate ($K_2Cr_2O_7$)

Reagent / Sample ratio -

Cup Position	Replicates	Absorbance (X)	SD	CV
Cup 1	20	1.5633 OD	0.0054	0.47%
Cup 2	20	1.5861 OD	0.0069	0.53%
Cup 3	20	1.5982 OD	0.073	0.51%

Accuracy study with Potassium Dichromate ($K_2Cr_2O_7$) in comparision with EM-200

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



Contd..2



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Wavelength	Spectrophotometer OD	
	Low	High
335	0.1882	1.7351
336	0.1952	1.7431
337	0.1983	1.7819
338	0.2011	1.8221
339	0.2040	1.8325
340	0.2079	1.8731
341	0.2153	1.9021
342	0.2179	1.9356
343	0.2215	1.9763
344	0.2303	2.0124
345	0.2352	2.0520



Contd...3



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

Pipetted/Measured by EM 200		Manually Pipettes EM		Manually pipetted & read in Autospan	
Low	High	Low	High	Low	High
0.2031	1.8205	0.1858	1.8690	0.2112	1.9532

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	0.92bar
Lamp Voltage	12 V	12.01 V
Temperature	37° C	37° C

Photometer Calibraion Check	Ok
Cuvette Blank Check	Ok

Wavelength	Off Set	Gain
340	NA	680
405	NA	481
505	NA	563
546	NA	479
578	NA	539
600	NA	435
660	NA	381
700	NA	432



Contd...4



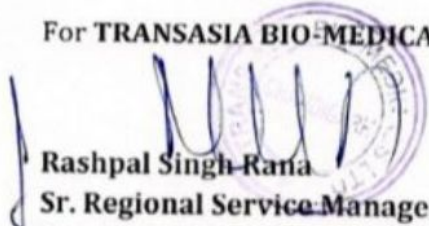
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The instrument does photometer check before each batch of tests is run. It will give an error message if the photometer test fails and it will not run any samples.

Thanking you and assuring of our prompt attention at all times.

Yours faithfully,

For **TRANSASIA BIO-MEDICALS LTD.**


Rashpal Singh Rana
Sr. Regional Service Manager

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E mail: r.rana@transasia.co.in

TRANSASIA

TECHNICAL SERVICE REPORT No. 1411438 DATE: 24/5/22

CUSTOMER DETAILS		INSTRUMENT DETAILS		SERVICE STATUS	
NAME: <u>Dr. Vohra's Medilab</u>		MODEL: <u>EM-200</u>		<input type="checkbox"/> WARRANTY	<input type="checkbox"/> R&R
ADDRESS: <u>Panchkula</u>		SR. NO.: <u>2002214</u>		<input type="checkbox"/> AMC	<input type="checkbox"/> CMC
		CALL DETAILS		TYPE OF CALL	
			DATE	TIME	<input type="checkbox"/> INSTALLATION
		COMPLAINT RECD.			<input type="checkbox"/> P.M. VISIT <input type="checkbox"/> I <input type="checkbox"/> II <input type="checkbox"/> III <input type="checkbox"/> IV
		RESPONSE			<input type="checkbox"/> APPLICATION SUPPORT
TEL NO:	JOB COMPLETED				<input type="checkbox"/> BREAKDOWN
NAME OF THE OPERATOR:	RESPONSE TIME			DOWN TIME:	
	TRAVEL TIME			COUNTER READING:	

PROBLEM REPORTED: - PM visit -

OBSERVATIONS: - PM visit -

ACTION TAKEN: Done preventive Maintenance of the instrument, Wash electrodes clean probe, tip, tubing, biohazard section, Replaced lamp, Run Quality control, sample, checked instrument function satisfactorily

SITE CONDITION: LINE-NEUTRAL VOLT.: _____ NEUTRAL-EARTH VOLT.: _____ LINE-EARTH VOLT.: _____

BRAND OF REAGENT USED: _____

<input type="checkbox"/> FOLLOWING PARTS HAVE BEEN REPLACED				
<input type="checkbox"/> FOLLOWING PARTS NEED TO BE REPLACED. PLEASE APPROVE				
NO.	DESCRIPTION	QTY.	COST	TOTAL

TO BE FILLED IN BY CUSTOMER

PREVENTIVE MAINTENANCE CARRIED OUT SATISFACTORILY.

FAULT RECTIFIED & INSTRUMENT IS WORKING SATISFACTORILY.

WE HEREBY APPROVE RS. _____ FOR PARTS

COMMENTS (IF ANY):



DATE: 24/5/22

CUSTOMER'S SIGNATURE NAME: BALVINDER SINGH

TOTAL Rs. _____

INVOICE NO.: _____ DATE: _____

FOLLOW-UP ACTION (Required if any): nil

RECEIVED ON: _____ BRANCH _____ H. O. _____

CHECKED BY: _____

ENGINEER'S/PRODUCT SPECIALIST'S SIGNATURE: _____

TIME: _____ NAME: Nikhil Singh

JOB CARD NO.: _____

NOTE: Parts replaced are chargeable except during warranty Period. Consumables like printer head, lamp, tubing, paper rolls etc. & breakable parts are not covered by warranty and hence are chargeable. Parts replaced due to negligence in operation will also be charged in every case.

AT TRANSASIA, CUSTOMER SATISFACTION IS OUR PRIME CONCERN. IN CASE YOU HAVE ANY SUGGESTIONS PLEASE CONTACT: GENERAL MANAGER (TECHNICAL SERVICE), MUMBAI. TEL.: 4030 9000 FAX: (022) 4030 9090

TRANSASIA BIO-MEDICALS LTD.

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Chandigarh : Tel.: (0172) 464 3837	Hyderabad : Tel.: (040) 4430 9000	Ahmedabad : Tel./Fax: (079) 02640 7030/4032 1903
Jaipur : Tel.: 93092 63147	Guwahati : Tel.: 91369 50480	Bangalore : Tel./Fax: (080) 2556 8044
Patna : Tel.: 77669 00553	Chuttack : Tel.: (0671) 232 4555	
Kochi : Tel.: (0484) 402 0511	Hubli : Tel.: (0836) 485 0900	

QC Data After PM.

Result Reprint

Report Type : Controls

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date	Mean	SD	Interval (3SD)
1	B082182	Erba Norm	SGPTD	36.5 U/L		36391	24-May-2022 16:35:12	38.390	2.560	30.71 - 46.07
2	B082182	Erba Norm	SGOTD	51.3 U/L		36392	24-May-2022 16:35:30	51.504	3.230	41.814 - 61.194
3	B082182	Erba Norm	ALPU	131 U/L		36393	24-May-2022 16:35:49	125.920	8.520	100.36 - 151.48
4	B082182	Erba Norm	GGT	44.3 U/L		36394	24-May-2022 16:36:07	45.100	2.800	36.7 - 53.5
5	B082182	Erba Norm	BID	0.59 mg/dl		36395	24-May-2022 16:36:24	0.606	0.050	0.456 - 0.756
6	B082182	Erba Norm	BIT	1.47 mg/dl	-1SD	36396	24-May-2022 16:36:42	1.642	0.130	1.252 - 2.032
7	B082182	Erba Norm	UREA	37.4 mg/dl	+1SD	36397	24-May-2022 16:37:01	35.322	1.700	30.222 - 40.422
8	B082182	Erba Norm	CRENZ	1.09 mg/dl		36398	24-May-2022 16:37:18	1.140	0.070	0.93 - 1.35
9	B082182	Erba Norm	GLU	98.8 mg/dl		36399	24-May-2022 16:37:37	101.004	4.780	86.664 - 115.344
10	B082182	Erba Norm	TRIG	117.8 mg/dl		36400	24-May-2022 16:37:55	121.430	5.670	104.42 - 138.44
11	B082182	Erba Norm	CHOL	145 mg/dl		36401	24-May-2022 16:38:13	140.130	6.880	119.49 - 160.77
12	B082182	Erba Norm	HDLC	40.7 mg/dl		36402	24-May-2022 16:38:31	43.148	2.860	34.568 - 51.728
13	B082182	Erba Norm	UA	6.2 mg/dl		36403	24-May-2022 16:38:49	6.426	0.300	5.526 - 7.326
14	B082182	Erba Norm	CA	8.9 mg/dl	+1SD	36404	24-May-2022 16:39:07	8.212	0.400	7.012 - 9.412
15	B082182	Erba Norm	PRO	5.50 g/dl	-1SD	36405	24-May-2022 16:39:25	6.074	0.310	5.144 - 7.004
16	B082182	Erba Norm	ALBD	3.40 g/dl		36406	24-May-2022 16:39:43	3.556	0.180	3.016 - 4.096

QC Data Before P.M.

Result Reprint

Report Type : Controls 24-May-2022

Sr #	Lot #	Consumable	Test	Result Unit	Flag	Curve #	Result Date	Mean	SD	Interval (3SD)
1	B082182	Erba Norm	SGPTD	33.4 U/L	-1SD	36248	24-May-2022 09:39:53	38.390	2.560	30.71 - 46.07
2	B082182	Erba Norm	SGOTD	48.0 U/L	-1SD	36249	24-May-2022 09:40:11	51.504	3.230	41.814 - 61.194
3	B082182	Erba Norm	ALPU	110 U/L	-1SD	36250	24-May-2022 09:40:29	125.920	8.520	100.36 - 151.48
4	B082182	Erba Norm	GGT	43.9 U/L		36251	24-May-2022 09:40:47	45.100	2.800	36.7 - 53.5
5	B082182	Erba Norm	BID	0.59 mg/dl		36252	24-May-2022 09:41:05	0.606	0.050	0.456 - 0.756
6	B082182	Erba Norm	BIT	1.48 mg/dl	-1SD	36253	24-May-2022 09:41:23	1.642	0.130	1.252 - 2.032
7	B082182	Erba Norm	UREA	36.0 mg/dl		36254	24-May-2022 09:41:41	35.322	1.700	30.222 - 40.422
8	B082182	Erba Norm	CRENZ	1.11 mg/dl		36255	24-May-2022 09:41:59	1.140	0.070	0.93 - 1.35
9	B082182	Erba Norm	GLU	99.5 mg/dl		36256	24-May-2022 09:42:17	101.004	4.780	86.664 - 115.344
10	B082182	Erba Norm	TRIG	119.4 mg/dl		36257	24-May-2022 09:42:35	121.430	5.670	104.42 - 138.44
11	B082182	Erba Norm	CHOL	146 mg/dl		36258	24-May-2022 09:42:53	140.130	6.880	119.49 - 160.77
12	B082182	Erba Norm	HDLC	42.7 mg/dl		36259	24-May-2022 09:43:11	43.148	2.860	34.568 - 51.728
13	B082182	Erba Norm	UA	6.3 mg/dl		36260	24-May-2022 09:43:29	6.426	0.300	5.526 - 7.326
14	B082182	Erba Norm	CA	7.9 mg/dl	F	36261	24-May-2022 09:43:47	8.212	0.400	7.012 - 9.412
15	B082182	Erba Norm	PRO	5.83 g/dl		36262	24-May-2022 09:44:05	6.074	0.310	5.144 - 7.004
16	B082182	Erba Norm	ALBD	3.40 g/dl		36263	24-May-2022 09:44:23	3.556	0.180	3.016 - 4.096

