



Date: 15-10-2020
Effective Date: 15-10-2020

Certificate of Calibration

Customer Name: RELIABLE DIAG. C/O SHREE HOSPITAL , JAIPUR

Model : Fullu Automated Biochemistry Analyzer EM 200

Serial No. : B161006

Calibration Done Date: 15-10-2020

Next Calibration Due Date : On or Before 14-10-2021

Lab In-charge: Dr. ABHINY VERMA

This is to certify that the above-mentioned product has been verified of calibration for all biochemistry parameters.

Calibration at site performed by
ROOPESH KUMAR
Sr. Service Engineer
Jaipur

Technical Service Department
Transasia Bio-Medicals Ltd
Mumbai

Encl: 1. Certificate of Inspection
2. Printouts



Date: 15-10-2020
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Certificate of Inspection

1. Model: Fully Automated Biochemistry Analyzer EM 200
2. Serial No.: B161006
3. Calibration Date: 15-10-2020
4. Material used: ERBA NORM , PATH, MULTICAL

By comparing your data to the results of the standard counters in Erba Control, the calibration for all parameters using the measurement standard material was completed. Please refer to the attached sheets for the details.



Technical Service Department
Transasia Bio-Medicals Ltd.
Mumbai

Date: 15-10-2020

Calibration Data:

1. Instrument Model & Sr. no. : EM 200, Sr. No. B161006
2. Range of the instrument: Optical density Linear form 0-3.5
3. Date of Calibration - 15-10-2020
4. Next Calibration due on - 14-10-2021

Test Points	Actual	Pass/ Fail
Logic 5 V	5 V	PASS
Line voltage 220+10%	220V	PASS
Lamp Voltage 12v	11.9V	PASS
RGT Temperature below 12°C	12°C	PASS
RCT Temperature 37°C ±0.2	37°C	PASS
Sample/ Reagent tray Initialize	OK	PASS
Arm Initialize	OK	PASS
Rotor Tray Initialize	OK	PASS
Com port	Com 5	PASS
Arm Trough valve	OK	PASS
Arm Probe Clean Valve	Ok	PASS
Waste Pump	OK	PASS
Syringe Initialize	OK	PASS
Dead volume Calibration		PASS
Sample Tube 5-7 ml	350ul	PASS
Sample Cup 2 ml	100ul	PASS
Reagent 50ml Bottle	2000ul	PASS
Reagent 20 ml Bottle	1500ul	PASS
Reagent 5 ml Tube	500ul	PASS

Rupesh

Technical Service Department
Transasia Bio-Medicals Ltd.

Mumbai

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7. CALIBRATION DATA

Sr.No.	Filters	Gains	PASS/ FAIL
1	340	819	PASS
2	405	580	PASS
3	505	541	PASS
4	546	503	PASS
5	578	532	PASS
6	600	521	PASS
7	660	527	PASS
8	700	456	PASS

Rupesh

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Mumbai

Maintenance Cell Blank Maintenance Log

SPAN

MANUAL SPAN

AUTO SPAN

Wavelength

Gain

Wavelength	Gain	Conv: 01	Gain Value	Out of Range
340			546	
819			503	
580			578	
580			600	
581			524	
581			532	
581			577	
581			456	
581			700	

START

WASH

WASH MAINTENANCE COMMANDS

- CUVETTE RINSE
- WATER SAVE
- AUTO WASH
- PROBE WASH
- PRIME WASH

START

DEAD VOLUME CALIBRATION

SELECT CONTAINER TYPE

- Sample TUBE (10 ml) Pos:3
- Sample CUP (2 ml) Pos:2
- Sample TUBE (5.7 ml) Pos:1
- Sample STD CUP (500 µl) Pos:1.1
- Reagent Inner Pos:1
- Reagent Outer Pos:2
- Reagent 5ml Adapter Pos:3

CALIBRATE

DEFAULT

STOP

MAINTENANCE ERRORS

S.N. ERROR MESSAGE

AUTO MAINTENANCE

START-UP

SHUTDOWN

START

EG

Rufan

Help (F1)

WARNING: This instrument is not to be used as a radiation source.

 CAUTION: This instrument is not to be used as a radiation source.

 DANGER: This instrument is not to be used as a radiation source.