



Certificate No.:
CC - 2147



ELECTRO METER CORPORATION
P- 5, C.I.T ROAD,
KOLKATA - 700014

Form No.: FM/22
CALIBRATION CERTIFICATE OF:
WEIGHING BALANCE

CALIBRATION CERTIFICATE NO.: EMC2021-KOL-00033358 ULR NO.: CC214721000026537F Page: 1/2

1.0 ISSUED TO: BIOCHEMISTRY DIAGNOSTIC LABORATORY
GOVT. MEDICAL COLLEGE
SRINAGAR AND ASSOCIATED SMHS HOSPITAL,
(F- BLOCK) KARAN NAGAR,
SRINAGAR, J&K- 190010

1.1 Service Request / Order No.: -

1.2 Description identification of item to be calibrated:					
i	Name:	WEIGHING BALANCE	ii	Code No.:	-
iii	Sl. No.:	2741111009	iv	Make:	Mettler Toledo
v	Model / Type No.:	ME204	vi	Range:	Max 220 g
vii	Sensor:	-	viii	Resolution:	0.0001 g
ix	Location:	Research Lab (Room No. 310)			

1.3 Applicable specification of item to be calibrated: Accuracy / permissible limit: Not Specified

1.4 Date of receipt of item: 20-Aug-2021 1.5 Date of calibration: 20-Aug-2021

1.6 Recommended date for next calibration: 20-Aug-2022 1.7 Frequency of calibration: 12 months

1.8 Environmental condition during calibration
Temperature: 25°C ± 10°C
Humidity: 50% RH ± 20% RH

1.9 Basis of calibration:
S.O.P Number: S.O.P/Mass/02
Standard Followed: OIML R76-1: 2006
Description of Method: Using E1 / E2 / F2 class standard weights upto 3 kg for calibration of Class II weighing balances and coarser as per OIML R-76

2.0 Thermal Stabilization Time: 3 hrs 2.1 Exact Location of Balance (from Ground Floor): 1

2.2 Traceability : Standards Used for Calibration are Traceable to National/International Standards through ISO/IEC: 17025 Accredited Laboratory.

Sl. No.	Name of the standard instrument used (Sl. No./Code Nos.)	Range	Resolution	Recommended date for next calibration	Traceable to / Certificate Nos.
1	Weight Box, Make: Mettler Toledo, Grade: E1, Sl. No: B309075500, Code No. EMC/WB-E1/629	1 mg to 200 g	-	18-04-2022	WMCL / WMCL/E/2019-04/2713

ISSUED BY ELECTRO METER CORPORATION



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CALIBRATION RESULT

Linearity Test :

Parameter / Range	Nominal Value on DUC (g)	Std. Value (g)	Error (g)
Mass Max 220 g	219.9995	219.999842	-0.000342
	199.9995	199.999846	-0.000346
	99.9996	99.999890	-0.000290
	49.9997	49.999941	-0.000241
	19.9998	19.999993	-0.000193
	9.9999	10.000005	-0.000105
	5.0000	5.000008	-0.000008
	2.0000	1.999999	0.000001
	1.0000	1.000005	-0.000005
	0.5000	0.499998	0.000002
	0.2000	0.200003	-0.000003
	0.1000	0.100001	-0.000001
	0.0500	0.050001	-0.000001
	0.0200	0.020002	-0.000002
	0.0100	0.010003	-0.000003
0.0000	0.000000	0.000000	

Repeatability at Max Load : 220 g Repeatability at Half Load : 110 g

Repeatability at Max Load : 220 g		Repeatability at Half Load : 110 g	
1	219.9995 g	1	109.9996 g
2	219.9996 g	2	109.9995 g
3	219.9995 g	3	109.9996 g
4	219.9995 g	4	109.9996 g
5	219.9996 g	5	109.9995 g
6	219.9995 g	6	109.9997 g
7	219.9995 g	7	109.9996 g
8	219.9996 g	8	109.9996 g
9	219.9995 g	9	109.9996 g
10	219.9995 g	10	109.9997 g

Standard deviation: 0.000048 g Standard deviation: 0.000067 g

Eccentricity: at 100 g is 0.0001 g

- Note: i) The Calibration result is only to be used for scientific purpose.
 ii) Average of 10 readings had been taken in DUC/STD.
 iii) The calibration certificate is issued by Electro Meter Corporation. This certificate refers only for the particular item submitted to calibrate.
 iv) The certificate if produced for any purpose commercial or otherwise, should be reproduced in full. Partial production of the certificate or an abstract thereof has to be got specifically approved from the technical and the quality manager of this lab.
 v) The results in the calibration certificate are valid at the time of and under the stated conditions on measurement.
 vi) The calibration result is only to be used for scientific & industrial purpose. This result can not be used for commercial purpose.

Measurement uncertainty at approx 95 % of confidence level & at a coverage factor of 2.00 is ± 0.41 mg

Remarks: Statement of conformity not mentioned. Physical status of the DUC: OK

DUC- Device Under Calibration
 Calibrated by: **Kuwar Aman Singh**
 Date : 20-08-2021
 Report Issue Date : 25-08-2021

Checked & Approved by: **Saptarshi Das**
 Date 25-08-2021

(Signature)
 Technical Assistant
 Electro Meter Corporation

S. Das
 Technical Manager
(Signature)
 Electro Meter Corporation

END OF CERTIFICATE

ISSUED BY ELECTRO METER CORPORATION