Cipla
Goa , Unit X

FULL SCALE CALIBRATION AND ZERO ERROR RECORD

(Analytical and Precision Weighing Balance)

Unit : X

Department : QC
Balance Code No. : BAL-1121
Make : METTLER TOLEDO
Std. Weight Box ID. : WGT-002,WGT-001

Month and year : November 2025
Capacity (a) (g) : 300.000
Model : ML203
Least Count (e) (g) 0.001

Std. Weight Box Certificate No. 10102025-002WGTBOX,10102025-001WB

Std. Weight Box Valid Upto 01-11-2038,24-12-2039

Tolerance: +/- Least count of the balance OR+/- 0.1 % of Standard weight whichever is higher.

Standard weights for calibration (g)		Tolerance (g)	Accuracy Limits(Std wt +/- Tolerance) (g)
Lower(20.e)/(5% of a)/Minimum capacity of the checkweigher / weighing balance	10.000	± 2.000	8.000 - 12.000
Middle-I(20% of a)	20.000	- 3.000 + 2.000	17.000 - 22.000
Middle-II(50% of a)	30.000	- 2.000 + 3.000	28.000 - 33.000
Upper(80% of a)	40.000	- 3.000 + 4.000	37.000 - 44.000

Note:
1. Adjust zero error before starting the weighing operation.
2. Check against standard weights daily before starting the activity.
3. If more than one standard weight is used for verification then record the standard weight / identification No. of all individual weights used for verification. (E.g. For verification of 200g, if three weights viz. 50g, 50g & 100g is used then record standard weight/identification No. of all the three weights)

Date	Time	Spirit Level (Ok/ Not Ok)	Zero Error	Standard weights kept on the balance (g)		Readings shown (g)	Remark
05.11.2025	10:05	OK	Nil	Lower(20.e)/(5% of a)/Minimum capacity of the checkweigher / weighing balance	10.000	11.516	Ok
				Middle-I(20% of a)	20.000	21.516	Ok
				Middle-II(50% of a)	30.000	31.516	Ok
				Upper(80% of a)	40.000	41.516	Ok

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2. Uncertainty test:

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	10.000	11.125	Ok
2	10.000	11.125	Ok
3	10.000	11.125	Ok
4	10.000	11.125	Ok
5	10.000	11.125	Ok
6	10.000	11.125	Ok
7	10.000	11.125	Ok
8	10.000	11.125	Ok
9	10.000	11.125	Ok
10	10.000	11.125	Ok
Mean		11.125	-
Standard Deviation (S.D.)		0.0000	-

Uncertainty = $\dfrac{3 \times \text{S.D.}}{\text{Standard Weight (g)}} = 0.000$

Acceptance criteria : Value of uncertainty should be NMT 0.001 g.

Remark : Complies

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3. Repeatability test:

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	10.000	11.125	Ok
2	10.000	11.125	Ok
3	10.000	11.125	Ok
4	10.000	11.125	Ok
5	10.000	11.125	Ok
6	10.000	11.125	Ok
7	10.000	11.125	Ok
8	10.000	11.125	Ok
9	10.000	11.125	Ok
10	10.000	11.125	Ok
Mean		11.125	-
Standard Deviation (S.D.)		0.0000	-

Repeatability (%) = $\dfrac{2 \text{ X } (0.41 \text{ x d})}{\text{Standard weight (g)}}$ X 100 = 0.01

Acceptance criteria : Repeatability is NMT 0.10 %

Remark : Complies

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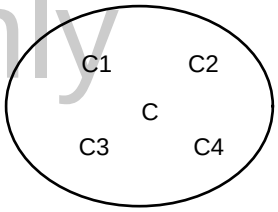
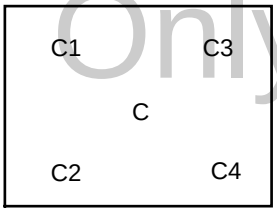
4. Eccentricity test :

Note: Adjust zero error before commencing the weighing operation .





Sr No.	Standard Weight (g)	Position	Reading displayed by the balance (g)	Deviation from center =X-C	Remark
1	10.000	C	11.125	------	Ok
2	10.000	C1	11.125	0.000	Ok
3	10.000	C2	11.125	0.000	Ok
4	10.000	C3	11.125	0.000	Ok
5	10.000	C4	11.125	0.000	Ok

Where, X=C1, C2, C3, C4 i.e. different corners of the balance.

Acceptance criteria : Deviation is not more than 0.05%.

Remark: Complies

Comment: _____

	Signature	Date & Time
Performed By	Abhishek (A)	05.11.2025 & 10:05:44
Checked By	yogita (123)	05.11.2025 & 10:10:34
Checked By (Quality Assurance)		