

**FULL SCALE CALIBRATION AND ZERO ERROR RECORD**

( Analytical and Precision Weighing Balance )

Unit : X

Department : NA

Balance Code No. : BAL2107

Make : METTLER TOLEDO

Std. Weight Box ID. : WB16072025

Month and year : October 2025

Capacity (a) (g) : 320.000

Model : ML203

Least Count (e) (g) 0.001

Std. Weight Box Certificate No. 16072025

Std. Weight Box Valid Upto 2027-08-27

**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	± 1.000	9.000 - 11.000
Middle-I(20% of a)	30.000	± 1.000	29.000 - 31.000
Middle-II(50% of a)	50.000	± 1.000	49.000 - 51.000
Upper(80% of a)	70.000	± 1.000	69.000 - 71.000

**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
28.10.2025	11:53	OK	Nil	Lower(20.e)/(5% of a)/Minimum capacity of the checkweigher / weighing balance	10.000	10.000
				Middle-I(20% of a)	30.000	30.000
				Middle-II(50% of a)	50.000	50.000
				Upper(80% of a)	70.000	70.000

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**2. Uncertainty test:**

Sr. No.	Standard Weight (g)	Reading displayed on the balance (g)	Remarks
1	30.000	30.000	Ok
2	30.000	30.000	Ok
3	30.000	30.000	Ok
4	30.000	30.000	Ok
5	30.000	30.000	Ok
6	30.000	30.000	Ok
7	30.000	30.000	Ok
8	30.000	30.000	Ok
9	30.000	30.000	Ok
10	30.000	30.000	Ok
<b>Mean</b>		30.000	-
<b>Standard Deviation (S.D.)</b>		0.0000	-

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

**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	50.000	50.000	Ok
2	50.000	50.000	Ok
3	50.000	50.000	Ok
4	50.000	50.000	Ok
5	50.000	50.000	Ok
6	50.000	50.000	Ok
7	50.000	50.000	Ok
8	50.000	50.000	Ok
9	50.000	50.000	Ok
10	50.000	50.000	Ok
<b>Mean</b>		50.000	-
<b>Standard Deviation (S.D.)</b>		0.0000	-

$$\text{Repeatability (\%)} = \frac{2 \times (0.41 \times d)}{\text{Standard weight (g)}} \times 100 = 0.00$$

**Acceptance criteria :** Repeatability is NMT 0.10 %

**Remark :** Complies

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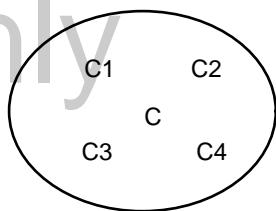
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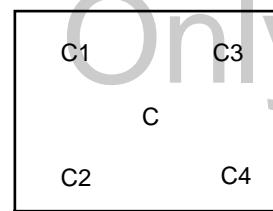
## 4. Eccentricity test :

**Note:** Adjust zero error before commencing the weighing operation .

Only



Only



Sr No.	Standard Weight (g)	Position	Reading displayed by the balance (g)	Deviation from center =X-C	Remark
1	30.000	C	30.000	-----	Ok
2	30.000	C1	30.000	0.000	Ok
3	30.000	C2	30.000	0.000	Ok
4	30.000	C3	30.000	0.000	Ok
5	30.000	C4	30.000	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	Mangesh (11)	28.10.2025 & 11:53:52
Checked By	Abhishek (A)	28.10.2025 & 11:56:50
Checked By (Quality Assurance)		