

Calibration certificate:
S-A-LE 361

TEST CERTIFICATE

S-A-LE 361



DORSHORST 2
7217PH HARFSEN
NETHERLANDS

INSTRUMENT:	WEIGHING INSTRUMENT
ID NR.:	361
MODEL:	METTLER AM 100
CAL. DATE:	15 NOVEMBER 2017

WEIGHING INSTRUMENT

NR. 361: METTLER TOLEDO AM 100

SPECIFICATIONS

Range:	max 110 g
Readability/Accuracy:	0,1mg
Voltage:	230 V
Measuring temperature:	20°C +/- 5°C
Calibration weight:	Mettler Toledo 2g E2 Mettler Toledo 100g E2

The acceptance criterion of the deviation for repeatability and accuracy is 0,1% of the used weight. This criterion is based on an estimated acceptable contribution to the total measurement error of an analysis.

MEASUREMENTS

Measurement	Series 1 (g)	Series 2 (g)	Series 3 (g)	Series 4 (g)
1	1,9999	2,0000	100,0066	100,0066
2	2,0001	2,0000	100,0068	100,0068
3	2,0000	2,0001	100,0065	100,0065
4	2,0001	2,0000	100,0064	100,0064
5	2,0000	2,0002	100,0067	100,0067
Average	2,0000	2,0001	100,0067	100,0066
Standard deviation	0,0001	0,0001	0,0002	0,0002
Repeatability (%)	0,0042	0,0045	0,0002	0,0002
Accuracy (%) ⁽¹⁾	0,0010	0,0030	0,0067	0,0066

(1) Expressed as deviation of the true weight

Series 1 and 2 are conducted with a weight of 2000 mg. In series 1 the weight was solely placed on the weighing platform. In series 2 a petridish with a mass of 13,13g was placed on the platform and the tare option was used. Afterwards the weighing of the 2000 mg reference weight was conducted. Series 3 and 4 are conducted with a weight of 100g. In series 4 the tare option was not used, because the total weight would exceed the max weighing range of 110 g.

CONCLUSION

The instrument meets the acceptance criterion.

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AUTHORISATION: 15-11-2017



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Date: 15-11-2017