

Calibration certificate:
S-A-LE 428

TEST CERTIFICATE

S-A-LE 428



DORSHORST 2
7217PH HARFSEN
NETHERLANDS

INSTRUMENT:	WEIGHING INSTRUMENT
ID NR.:	428
MODEL:	SARTORIUS RC210P
CAL. DATE:	28 AUGUST 2018

WEIGHING INSTRUMENT

NR. 428: SARTORIUS RC210P

SPECIFICATIONS

Range:	max 210 g
Readability/Accuracy:	max 60g – 0.01mg, 60g until 110g – 0.02mg, 110g until 210g – 0.005mg
Voltage:	220 V
Measuring temperature:	20°C +/- 5°C
Calibration weight:	Mettler Toledo 2g E2 Mettler Toledo 200g 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)
1	1,99999	2,00003	200,00000
2	2,00004	1,99999	199,99995
3	2,00002	2,00007	199,99985
4	1,99998	2,00000	199,99985
5	2,00003	2,00007	199,99985
Average	2,00001	2,00003	199,99990
Standard deviation	0,00003	0,00004	0,00007
Repeatability (%)	0,00129	0,00188	0,00004
Accuracy (%) ⁽¹⁾	0,00001	0,00003	0,00005
Criterion Rep.	OK	OK	OK
Criterion Acc.	OK	OK	OK

⁽¹⁾ Expressed as deviation of the true weight

Series 1 and 2 are conducted with a calibration weight of 2000 mg. In series 1 the weight was solely placed on the weighing platform. In series 2 a petri-dish with a mass of 13,1g was placed on the platform and the tare option was used. Afterwards the calibration weighing of the 2000 mg reference weight was conducted. Series 3 is conducted with a weight of 200g.

CONCLUSION

The instrument meets the acceptance criterion.

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AUTHORISATION: 28-08-2018



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Date: 28-08-2018