

# TEST CERTIFICATE

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S-A-LE 270



D O R S H O R S T 2  
7 2 1 7 P H H A R F S E N  
N E T H E R L A N D S

INSTRUMENT:	WEIGHING INSTRUMENT
ID NR.:	270
MODEL:	SARTORIUS MC 410S
CAL. DATE:	11 MAY 2017

# WEIGHING INSTRUMENT

NR. 270: SARTORIUS MC 410S

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## SPECIFICATIONS

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Range: 0 – 410g  
Readability/Accuracy: 0,1mg  
Voltage: 230 V  
Measuring temperature: 20°C +/- 5°C  
Calibration weight: Mettler Toledo 1g 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.

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## MEASUREMENTS

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Measurement	Series 1 (g)	Series 2 (g)	Series 3 (g)	Series 4 (g)
1	1,0004	0,9995	200,0155	199,8954
2	1,0003	0,9994	200,0158	199,9855
3	1,0004	0,9994	200,0156	199,8955
4	1,0004	0,9996	200,0158	199,8954
5	1,0003	0,9995	200,0155	199,8953
Average	1,0004	0,9995	200,0156	199,9134
Standard deviation	0,0001	0,0001	0,0002	0,0403
Repeatability (%)	<0,01	0,01	<0,01	0,02
Accuracy (%) <sup>(1)</sup>	0,04	0,05	<0,01	0,04

<sup>(1)</sup> Expressed as deviation of the true weight

Series 1 and 2 are conducted with a weight of 1g. In series 1 the weight was solely placed on the weighing platform. In series 2 an object with a mass of 200g was placed on the platform and the tare option was used. Then the weighing of the 1g weight was conducted.

Series 3 and 4 are conducted with a weight of 200g. In series 4 the tare option was used after placing the mass of 200g. Then the weighing of the 200g weight was conducted.

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## CONCLUSION

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The instrument meets the acceptance criterion.

Calibration certificate:  
S-A-LE 270

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**AUTHORISATION: 11-5-2017**

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