# TESTCERTIFICATE

## S-A-LE 254

DORSHORST 2
7217PH HARFSEN
NETHERLANDS

| | |
|---|---|
| INSTRUMENT: | WEIGHING INSTRUMENT |
| ID NR.: | 254 |
| MODEL: | METTLER AE 200 |
| CAL. DATE: | 31 MARCH 2017 |

# WEIGHING INSTRUMENT

NR. 254: METTLER AE 200

## SPECIFICATIONS

| | |
|---|---|
| Range: | 0 – 205g |
| Readability/Accuracy: | 0,1mg |
| Voltage: | 230 V |
| Measuring temperature: | 20°C +/- 5°C |
| Calibration weight: | Mettler Toledo 50g E2<br>Mettler Toledo 2g 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** | 2,0000 | 2,0001 | 50,0033 | 50,0036 |
| **2** | 2,0002 | 2,0002 | 50,0032 | 50,0034 |
| **3** | 2,0002 | 2,0002 | 50,0034 | 50,0035 |
| **4** | 2,0001 | 2,0001 | 50,0031 | 50,0036 |
| **5** | 2,0001 | 2,0000 | 50,0031 | 50,0034 |
| **Average** | 2,0001 | 2,0001 | 50,0032 | 50,0035 |
| **Standard deviation** | 0,0001 | 0,0001 | 0,0001 | 0,0001 |
| **Repeatability (%)** | <0,01 | <0,01 | <0,01 | <0,01 |
| **Accuracy (%)** (1) | <0,01 | <0,01 | <0,01 | <0,01 |

(1) Expressed as deviation of the true weight

Series 1 and 2 are conducted with a weight of 20g. In series 1 the weight was solely placed on the weighing platform. In series 2 a small object with a mass of 45g was placed on the platform and the tare option was used. Then the weighing of the 20g weight was conducted.
Series 3 and 4 are conducted with a weight of 50g. In series 4 the tare option was used after placing the mass of 45g. Then the weighing of the 50g weight was conducted.

## CONCLUSION

The instrument meets the acceptance criterion.

**AUTHORISATION: 31-3-2017**

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