

CERTIFICATE OF CALIBRATION

Issue:- Certificate Number: **95958A**
95958A_10 Date of Issue: **01-Aug-22**

Approved Signatory: **Mark Norfolk**
Page 1 of 2 Signed: 



Submitter:-

Mecmesin Limited
Newton House
Spring Copse Business Park
Slinfold
West Sussex
RH13 0SZ

Issued by:-

Kent Scientific Services
8 Abbey Wood Road
Kings Hill
West Malling
Kent
ME19 4YT
Tel: 03000 415 100
Fax: 01732 220006

EQUIPMENT: Weights
SERIAL NUMBER: AH2
MAKE/TYPE: N/A
STANDARDS USED: Set 12412
DATE RECEIVED: 21 July 2022
DATE CALIBRATED: 1 August 2022
DETAILS: 10 Brass

MEASUREMENTS:

Kent Scientific Services method used: CAL-M2, Calibration of Small Masses.

The calibrations took place in a controlled environment with the temperature held between 18°C and 22°C, and with the relative humidity held between 40% and 60%.

The measurement results obtained in the table, where each measured value given represents not the true mass, but the mass of a hypothetical weight of density 8,000 kg.m⁻³, which in air of density 1.2 kg.m⁻³ would balance the corresponding weight identified in the first column at 20°C.

The method of weighing was by substitution (Borda's method). In each instance the standard weight used had been calibrated by UKAS Calibration Laboratory number 0474 or 0352 within the previous three years.

The uncertainty of measurements for each of the different denominations is listed in the last column of the table. Duplicate weights, where present, are indicated by a dot or dots.

Customer supplied information is notated with a ~, and results relate only to the item(s) calibrated.

Unless otherwise notated, samples are tested in as received condition at Kent Scientific Services.

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TABLE OF MEASUREMENT RESULTS

<u>Identity Mark</u>	<u>Nominal Mass</u>	<u>Measured Value</u>	<u>Error from Nominal</u>	<u>Estimated Uncertainty</u>
	100 g	100.004 0 g	+ 4.0 mg	± 1.0 mg
	100 g ^o	100.003 6 g	+ 3.7 mg	± 1.0 mg
	50 g	49.999 79 g	- 0.21 mg	± 0.60 mg
	20 g	19.998 86 g	- 1.14 mg	± 0.50 mg
	20 g ^o	19.999 50 g	- 0.51 mg	± 0.50 mg
	10 g	9.999 31 g	- 0.69 mg	± 0.40 mg
	5 g	5.000 67 g	+ 0.67 mg	± 0.30 mg
	2 g	2.000 22 g	+ 0.22 mg	± 0.24 mg
	2 g ^o	2.000 03 g	+ 0.03 mg	± 0.24 mg
	1 g	1.000 09 g	+ 0.09 mg	± 0.20 mg

END OF RESULTS