


CERTIFICATE OF CALIBRATION		
Issue:- 95335_10	Certificate Number: Date of Issue:	95335 07-Oct-21
Page 1 of 2	Approved Signatory: Signed:	Tom Williams 



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 Set AH6

SERIAL NUMBER: X

MAKE/TYPE: N/A

STANDARDS USED: Set 12412

DATE RECEIVED: 4 October 2021

DATE CALIBRATED: 6 October 2021

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.

This certificate is issued in accordance with the laboratory accreditation requirements of the United Kingdom Accreditation Service. It provides traceability of measurement to the SI system of units and/or to units of measurement realised at the National Physical Laboratory or other recognised national metrology institutes. This certificate may not be reproduced other than in full, except with the prior written approval of the issuing laboratory.

TABLE OF MEASUREMENT RESULTS

<u>Nominal Mass</u>	<u>Measured Value</u>	<u>Error from Nominal</u>	<u>Estimated Uncertainty</u>
100 g	99.998 9 g	- 1.1 mg	± 1.0 mg
100 g ^o	100.000 8 g	+ 0.8 mg	± 1.0 mg
50 g	50.000 13 g	+ 0.13 mg	± 0.60 mg
20 g	20.000 94 g	+ 0.94 mg	± 0.50 mg
20 g ^o	20.000 96 g	+ 0.96 mg	± 0.50 mg
10 g	10.000 66 g	+ 0.66 mg	± 0.40 mg
5 g	5.000 57 g	+ 0.57 mg	± 0.30 mg
2 g	2.000 37 g	+ 0.37 mg	± 0.24 mg
2 g ^o	2.000 59 g	+ 0.59 mg	± 0.24 mg
1 g	1.000 34 g	+ 0.34 mg	± 0.20 mg

END OF RESULTS