



SOUTHWEST RESEARCH INSTITUTE®

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Institute Calibration Laboratory
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Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B57

Contact: DON BANNON

Manufacturer / Model: TROEMNER / 20G

Description: WEIGHT, CLASS 1

Serial No: 66388

Asset No: 009341

Procedure: WEIGHTS - 4 JAN, 2007

Work Order: 303075415

Date Issued: Jul 19, 2007

Calibration Date: Jul 19, 2007

***Calibration Due:** Jul 19, 2008

Calibration Location: Bldg. 64

Environment: Temp. 68.0°F Hum. 42 %RH

****Data Type:** FOUND-LEFT

DivID/Location: N/A

This certificate documents traceability to the National Institute of Standards and Technology (NIST) and the International System of Units (SI). The Laboratory quality system conforms to ISO/IEC 17025, 2005, ANSI/NCCL Z540-1-1994 and relevant requirements of the ISO 9000-2000 standard. This certificate shall not be reproduced, except in full, without the written approval of the Southwest Research Institute Calibration Laboratory. This certificate shall not be used to claim product endorsement by Southwest Research Institute, American Association for Laboratory Accreditation (A2LA) or any agency of the U. S. Government. Results of this calibration relate only to the instrument described above at the time of calibration and does not imply any long term stability of the instrument.

*Determined by the customer, does not imply the instrument will remain within tolerance as any number of factors may cause an out-of-tolerance condition before this date. **Found/Left = adjustment and/or repair was not required, As Left = adjusted and/or repaired was required. The client has sole responsibility for determination of in-/out-of-tolerance or compliance/noncompliance. See Remarks or attached Measurement Report with the same Work Order number for data.

Reported uncertainty calculated in accordance with the ISO "Guide to the Expression of Uncertainty in Measurement" (GUM) and represents an expanded uncertainty with a coverage factor of k=2 to approximate a 95% confidence level.

Remarks: THE CONVENTIONAL MASS VALUE OF THE 20G WGT IS: 20.000 014g UNC +/-0.058mg. CLASS 1 TOL +/-0.07mg.

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
007102	18043	TROEMNER	IMG TO 100G	WEIGHT SET, CLASS E1	Dec 06, 07
012068	18601104	SARTORIUS	CC310	MASS COMPARATOR	Aug 13, 07

Reviewed by: () wgh () srk (x) jrg () blt () pwc

Metrology Technician

m:\a2la1.rpt Rev date August 15, 2005

Measurements by: Mark Romero

Metrology Technician