SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Certificate of Calibration

ACCREDITED
Calibration Laboratory
Certificate #0972-01

Submitted By: DIV20
Address: B51
Contact: DON BANNON
Manufacturer / Model: TROEMNER / 1G
Description: WEIGHT, CLASS 2
Serial No: 66665
Asset No: 011115
Procedure: WEIGHTS - 10 DEC 07

Work Order: 303080507
Date Issued: Apr 28, 2008
Calibration Date: Apr 28, 2008
***Calibration Due:** Oct 28, 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/NCSL 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 1G WEIGHT IS: 1000.005 7mg UNC +/-0.004 1mg. CLASS 2 TOL +/-0.054mg.

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
007102	18043	TROEMNER	1MG TO 100G	WEIGHT SET, CLASS E1	Dec 03, 08
012067	14311098	SARTORIUS	CC6	MASS COMPARATOR	Aug 12, 08

Reviewed by: (✓) srk ( ) mar ( ) wgh

Measurements by: Mark Romero
Metrology Technician