



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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Calibration Laboratory
Certificate #0972-01

Certificate of Calibration

Submitted By: DIV20

Address: B51

Contact: DON BANNON

Manufacturer / Model: LINDBERG/BLUE / M01450PC-1

Description: OVEN

Serial No: S01L-528113-SL

Asset No: 008964

Procedure: OVENS, CHAMBERS, INCUBATORS - 11 APR 06

Work Order: 303079469

Date Issued: Feb 29, 2008

Calibration Date: Feb 29, 2008

***Calibration Due:** Feb 28, 2009

Calibration Location: B57

Environment: Temp. 73.0°F Hum. 45 %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: MEETS CUSTODIAN'S TOLERANCE OF +/-5 °C AT 90 °C.

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
009917	604420	HART SCIENTIFIC	5612	RTD	Mar 18, 08
012305	A51826	HART SCIENTIFIC	1502A	TEMPERATURE READOUT	Mar 18, 08

Scott Kish

Reviewed by: srk mar wgh

Mark Romero

Measurements by: Mark Romero
Metrology Technician

Southwest Research Institute
 Calibration Laboratory
 Measurement Report

Work Order:	303079469	Mfr.	Lindberg-Blue	Technician	Mark Romero
Asset No.	008964	Model	M01450PC-1		
Serial No.	S01L-528113-SL	Type.	Oven	Cal Date.	29-Feb-08
Remarks:					
Limited Calibration: +/- 5 °C at 90 °C Set Point per customer request.					

Function/Range	Standard	TI Reading	Difference	+/-Limit	+/-Uncertainty	Found/Left
Set Point	°C	°C	°C	°C	°C	Result
90°C	90.2	90.1	-0.1	5.0	0.034	Pass

END OF REPORT