



SOUTHWEST RESEARCH INSTITUTE®

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Institute Quality Systems
Institute Calibration Laboratory
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0972-01

Certificate of Calibration

Submitted By: DIV20
Address: B57
Contact: DON BANNON
Manufacturer Model: LINDBERG/BLUE M01450PC-1
Description: OVEN
Serial No: S01L-528113-SL
Asset No: 008964
Procedure: OVENS/CHAMBERS/INCUBATORS, FEB/04

Work Order: 303066850
Date Issued: Dec 1, 2005
Calibration Date: Dec 1, 2005
***Calibration Due:** Dec 1, 2006
Calibration Location: B57
Environment: Temp. 68.0°F Hum. 32 %RH
****Data Type:** FOUND-LEFT

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, 1999, 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: ± 5°C at 90°C Set Point

Standards Used

Asset No.	Serial No.	Manufacturer	Model	Description	Cal Due
005566	B0113L004	MERIAN	A0030P	PRESSURE GAUGE, ABSOLUTE	Apr 10, 06
011558	A1320009	VAISALA	HMP77B	TEMPERATURE/HUMIDITY PROBE	May 26, 06

Reviewed by: blt () jfg () pwc () wgh ()

Metrology Technician

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

Measurements by: Jude Morin

Metrology Technician

Southwest Research Institute
Calibration Laboratory
Measurement Report

Work Order:	303066850	Mfr.	Lindbert-Blue	Technician	jim
Asset No.	008964	Model	M01450PC-1		
Serial No.	S01L-528113-SL	Type.	Oven	Cal Date.	1-Dec-05

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	91.9	90.6	-1.3	5.0	0.034	Pass

END OF REPORT