



THE AMERICAN ASSOCIATION FOR
LABORATORY ACCREDITATION

ACCREDITED LABORATORY

A2LA has accredited

PACE ANALYTICAL SERVICES - LAB OPS DIVISION **Minneapolis, MN**

for technical competence in the field of

Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005 *General Requirements for the Competence of Testing and Calibration Laboratories*. This laboratory also meets the requirements of ANSI/NCSL Z540-1-1994 and any additional program requirements in the field of calibration. This accreditation demonstrates technical competence for a defined scope and the operation of a laboratory quality management system (*refer to joint ISO-ILAC-IAF Communiqué dated 18 June 2005*).

Presented this 8th day of April 2008.

A handwritten signature in cursive script, reading "Peter Abney", positioned above a horizontal line.

President
For the Accreditation Council
Certificate Number 2700.01
Valid to June 30, 2010



For the calibrations to which this accreditation applies, please refer to the laboratory's Calibration Scope of Accreditation.

SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005
& ANSI/NCSL Z540-1-1994

PACE ANALYTICAL SERVICES, INC., LAB OPS DIVISION
723 Kasota Avenue SE
Minneapolis, MN 55414
Jodi Taylor Phone: 612 656 1128

CALIBRATION

Valid To: June 30, 2010

Certificate Number: 2700.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations¹:

I. Mechanical

Parameter	Range	Best Uncertainty ² (±)	Comments
Pressure	(0 to 15) psia	0.19 psi	Heise PTE-1, Heise 15 psi absolute module
	(0 to 100) psig	0.076 psi	Heise PTE-1, Heise 100 psi absolute module
	(0 to 5) in H ₂ O	0.016 psi	Heise PTE-1, Heise 5 inch H ₂ O psi absolute module

II. Thermodynamic

Parameter	Range	Best Uncertainty ² (±)	Comments
Temperature – By Comparison	(-25 to 140) °C	0.11 °C	Hart 1502A, Hart 5615 PRT, Hart 9103 drywell

Parameter	Range	Best Uncertainty ² (±)	Comments
Humidity – Measuring Equipment	(5 to 95) % RH @ (15 to 50) °C	2.0 % RH	Vaportron H-100 CL Humidity Chamber

¹ This laboratory offers commercial calibration services for the parameters indicated.

² “Best Uncertainty” is the smallest uncertainty of measurement that a laboratory can achieve within its scope of accreditation when performing more or less routine calibrations of nearly ideal measurement standards of nearly ideal measuring equipment. Best uncertainties represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of $k = 2$. The best uncertainty of a specific calibration performed by the laboratory may be greater than the best uncertainty due to the behavior of the customer’s device and to influences from the circumstances of the specific calibration.