



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board/AClass
500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

Alpha-Liberty Company, Inc.
7185 Liberty Centre Drive, Suite E
West Chester, OH 45069

has been assessed by AClass
and meets the requirements of international standard

ISO/IEC 17025:2005

while demonstrating technical competence in the field(s) of

CALIBRATION

Refer to the accompanying Scope(s) of Accreditation for information regarding the types of calibrations to which this accreditation applies.

AC-1127

Certificate Number

A handwritten signature in black ink, appearing to read "Keith Greenaway", written over a horizontal line.

AClass Approval

Certificate Valid 06/20/2011-09/27/2013
Version No. 003 Issued: 06/24/2011



This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2005. 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 January 2009*).



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2005

Alpha-Liberty Company, Inc.

7185 Liberty Centre Drive, Suite E, West Chester, Ohio 45069
Bernd Rau Phone: 513-777-1525

CALIBRATION

Valid to: September 27, 2013

Certificate Number: AC-1127

I. Mechanical

Table with 5 columns: PARAMETER / EQUIPMENT, RANGE, CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)], REFERENCE STANDARD OR EQUIPMENT, METHOD(S). Rows include Mass (1 mg to 2 g), Mass (5 to 10 g), Mass (10 to 50 g), Mass (50 to 200 g), Mass (200 to 500 g), Mass (500 to 1 000 g), Mass (1 000 to 2 000 g), Mass (2 000 to 5 000 g), Mass (5 000 to 10 000 g), Mass (10 000 to 20 000 g), Mass (20 000 to 50 000 g), Mass (50 000 to 60 000 g), Balances (0.000 000 1 g), Balances (0.000 001 g).



PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(±)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Balances (0.0001 g)	Up to 1 000 g	3 mg	Class 1 Weights	Manufacturer Procedure
Balances (0.001 g)	Up to 10 000 g	16.1 mg	Class 1 Weights	Manufacturer Procedure
Balances (0.01 g)	Up to 60 000 g	188 mg	Class 1 Weights	Manufacturer Procedure
Scales (0.1 g)	Up to 200 kg	4.8 g	Class 4 Weights	Manufacturer Procedure, NIST Handbook 44
Scales (0.01 g)	Up to 30 lb	1.7 g	Class F Weights	Manufacturer Procedure NIST Handbook 44
Scales (0.1 g)	Up to 500 lb	27.6 g	Class F Weights	Manufacturer Procedure NIST Handbook 44

Notes:

1. Calibration and Measurement Capabilities (Expanded Uncertainty) are based on approximately a 95% confidence interval, using a coverage of $k=2$
2. The uncertainty associated when calibrating a balance/scale is dependent on local conditions, such as the resolution of the unit being calibrated and the environment in which the balance/scale is operating. The uncertainty listed in the scope here represents the best uncertainty for a balance/scale which the organization typically calibrates in its lab. Since field (on-site) conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field (on-site) than what is reported on the accredited scope.
3. This scope is part of and must be included with the Certificate of Accreditation No. AC-1127



Vice-President

