



CERTIFICATE OF ACCREDITATION

ANSI-ASQ National Accreditation Board

500 Montgomery Street, Suite 625, Alexandria, VA 22314, 877-344-3044

This is to certify that

AL-TAR Services, Inc.

823 Kifer Rd.

Sunnyvale, CA 94086

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

ISO/IEC 17025:2005

while demonstrating technical competence in the field of

CALIBRATION

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

AC-1457
Certificate Number


ANAB Approval

Certificate Valid: 06/15/2016-05/12/2018
Version No. 007 Issued: 06/15/2016



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

AL-TAR Services, Inc.

823 Kifer Rd. Sunnyvale, CA 94086
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CALIBRATION

Valid to: May 12, 2018

Certificate Number: AC-1457

I. Mechanical

Table with 5 columns: PARAMETER / EQUIPMENT, RANGE, CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)], REFERENCE STANDARD OR EQUIPMENT, METHOD(S). Rows include Balance Class I, Balance Class II, Rotational Speed Sensors, and Pipettes.

II. Time & Frequency

Table with 5 columns: PARAMETER / EQUIPMENT, RANGE, CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)], REFERENCE STANDARD OR EQUIPMENT, METHOD(S). Row includes Stopwatches / Timers.



III. Thermodynamic

PARAMETER / EQUIPMENT	RANGE	CALIBRATION AND MEASUREMENT CAPABILITY [EXPRESSED AS UNCERTAINTY(+)]	REFERENCE STANDARD OR EQUIPMENT	METHOD(S)
Temperature	(-80 to 140) °C	0.086 °C	Hart 1521 and 5627 PRT	OEM sourced Procedures
Temperature	(140 to 1 000) °C	3 °C	Fluke 51 and TC	OEM sourced Procedures
Humidity	(10 to 80) % RH	3% RH	Vaisala MI70/ HMP76	CAL-1031

Notes:

1. Calibration and Measurement Uncertainties (Expanded Uncertainties) are based on approximately a 95% confidence interval, using a coverage of $k=2$.
2. This laboratory's capabilities include in-laboratory and field (on-site) calibrations of all parameters listed above. Since field conditions are typically more variable than those in the laboratory, larger measurement uncertainties are expected in the field than what is reported on the accredited scope.
3. This scope is formatted as part of a single document including the Certificate of Accreditation No. AC-1457



 Vice President