



SCOPE OF ACCREDITATION TO ISO/IEC 17025:2017

MICRO ESSENTIAL LABORATORY  
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Brooklyn, NY 11210  
Twinkal Mehta Phone: 718 880 3576

CALIBRATION

Valid To: November 30, 2021

Certificate Number: 4773.01

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this laboratory to perform the following calibrations<sup>1,3</sup>:

I. Chemical

Parameter/Equipment	Range	CMC <sup>2,4</sup> (±)	Comments
pH – Measuring Equipment	4, 7, 10 pH (3 pt calibration) 4, 7 pH (2 pt calibration) 7, 10 pH (2 pt calibration)	0.035 pH 0.022 pH 0.029 pH	NIST certified solutions
pH – Measure	(1 to 12) pH	0.034 pH	Metrohm 905 Titrando

TESTING

TEST	Range	Method Used
pH testing of buffered solution	(1 to 12) pH	Potentiometric Titration

<sup>1</sup> This laboratory offers commercial calibration and testing service.

<sup>2</sup> Calibration and Measurement Capability Uncertainty (CMC) 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 or nearly ideal measuring equipment. CMC's represent expanded uncertainties expressed at approximately the 95 % level of confidence, usually using a coverage factor of  $k = 2$ . The actual measurement uncertainty of a specific calibration performed by the laboratory may be greater than the CMC due to the behavior of the customer's device and to influences from the circumstances of the specific calibration.

<sup>3</sup> This scope meets A2LA's *P112 Flexible Scope Policy*.

<sup>4</sup> The type of instrument or material being calibrated is defined by the parameter. This indicates the laboratory is capable of calibrating instruments that measure or generate the values in the ranges indicated for the listed measurement parameter.



# Accredited Laboratory

A2LA has accredited

## MICRO ESSENTIAL LABORATORY

Brooklyn, NY

for technical competence in the field of

## Calibration

This laboratory is accredited in accordance with the recognized International Standard ISO/IEC 17025:2017 *General requirements for the competence of testing and calibration laboratories*. This laboratory also meets the requirements of R205 – Specific Requirements – Calibration Laboratory Accreditation Program. 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 April 2017).



Presented this 17<sup>th</sup> day of December 2019.

A blue ink signature of the Vice President of Accreditation Services.

Vice President, Accreditation Services  
For the Accreditation Council  
Certificate Number 4773.01  
Valid to November 30, 2021

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