



SCOPE OF ACCREDITATION TO ISO/IEC 17034:2016

ADVANCED INSTRUMENTS, LLC
ARTEL LABORATORY
Westbrook, ME 04092
Kristi Cande Phone: 888 406 3463

REFERENCE MATERIAL

Valid To: October 31, 2027

Certificate Number: 2093.05

In recognition of the successful completion of the A2LA evaluation process, accreditation is granted to this Reference Material Producer for the production of the certified reference materials and reference materials of the following types:

Certified Reference Material	Concentration Ranges	Uncertainty	Test Method
PCS QualAssure Solutions 1-6	PCS QualAssure 1: 1.2 Abs/cm PCS QualAssure 2: 2.6 Abs/cm PCS QualAssure 3: 8.2 Abs/cm PCS QualAssure 4: 37 Abs/cm PCS QualAssure 5: 185 Abs/cm PCS QualAssure 6: 740 Abs/cm	$\pm 4.8\text{E-}03$ A/cm $\pm 9.7\text{E-}03$ A/cm $\pm 3.2\text{E-}02$ A/cm $\pm 1.5\text{E-}01$ A/cm $\pm 7.1\text{E-}01$ A/cm $\pm 2.9\text{E+}00$ A/cm	Spectrophotometry Absorbance at 520.2 nm
PCS Calibrator Kit	Absorbance Ratio (0.9750 – 1.0249) Calibrator A (C1) Calibrator B Calibrator C Calibrator D	$\pm 5.3\text{E-}04$ Abs/cm $\pm 3.7\text{E-}03$ Abs520/Abs730nm $\pm 2.1\text{E-}03$ Abs520/Abs730nm $\pm 1.7\text{E-}03$ Abs520/Abs730nm	Spectrophotometry
PCS QualAssure Blank	Delta Absorbance (Abs730 – Abs520) at 0.60 Abs/cm	$\pm 2.6\text{E-}03$ Abs/cm	Spectrophotometry Absorbance at 730.5 nm
PCS QualAssure Cal A (C1/C0)	400-800nm Scan: -0.0020 – 0.0020 Abs/cm	$\pm 5.3\text{E-}04$ Abs/cm	Spectrophotometry



Accredited Reference Material Producer

A2LA has accredited

ADVANCED INSTRUMENTS, LLC

Westbrook, ME

This accreditation covers the specific materials listed on the agreed upon Scope of Accreditation.

This producer meets the requirements of ISO 17034:2016 *General Requirements for the Competence of Reference Material Producers*. This accreditation demonstrates technical competence for a defined scope and the operation of a quality management system.

Presented this 16th day of December 2025.

A blue ink signature of Trace McInturff, written in a cursive style.

Trace McInturff, Vice President, Accreditation Services
For the Accreditation Council
Certificate Number: 2093.05
Valid to October 31, 2027
Revised August 11, 2026



For reference materials to which this accreditation applies, please refer to the reference material producer's Scope of Accreditation.