PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

Perry Johnson Laboratory Accreditation, Inc. has assessed the Organization of:

Paul Mueller Company

1600 West Phelps, Springfield, MO 65802

and hereby declares that the Organization is accredited in accordance with the recognized International Standard:

ISO/IEC 17025:2017

Whereby, technical competence has been confirmed for the associated scope supplement, in the fields of:

Chemical, Fluid Quantities, Mechanical and Thermodynamic Calibration

(As detailed in the supplement)

Accreditation claims for conformity assessment activities shall only be made from the addresses referenced within this certificate and shall apply solely to those activities identified in the related scope. This Accreditation is granted subject to the Accreditation Body rules governing the Accreditation referred to above, and the Organization hereby commits to observing and complying with those rules in their entirety.

For PJLA:

Tracy Szerszen
President

Perry Johnson Laboratory Accreditation, Inc. (PJLA)
755 W. Big Beaver, Suite 1325
Troy, Michigan 48084

Initial Accreditation Date:	*Issue Date:*	*Expiration Date:*
February 19, 2025	February 19, 2025	May 31, 2027
Revision Date:	*Accreditation No.:*	*Certificate No.:*
March 03, 2026	127405	L25-143-R2

The validity of this certificate is maintained through ongoing assessments based on a continuous accreditation cycle. The validity of this certificate should be confirmed through the PJLA website: www.pjlabs.com

Certificate of Accreditation: Supplement

Paul Mueller Company

1600 West Phelps, Springfield, MO 65802
Contact Name: Tyler VanSickle Phone: 417-575-9659

Accreditation is granted to the facility to perform the following conformity assessment activities:

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHEREAPPROPRIATE)	EXPANDED MEASUREMENT UNCERTAINTY (±) [1]	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENTMETHOD OR PROCEDURES USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	Equipment to Measure Conductivity (Fixed Point)	25 µS/cm	4.1 %	Mettler Toledo M300 w/ 243E223 Mettler Probe with standard solutions	QACP001 SOP	F1, F3	F, O
Chemical	Equipment to Measure Conductivity (Fixed Point)	100 µS/cm	2.7 %	Mettler Toledo M300 w/ 243E223 Mettler Probe with standard solutions	QACP001 SOP	F1, F3	F, O
Chemical	Equipment to Measure pH (Fixed Point)	4 pH	0.12 pH	Standard Buffer Solutions	QACP001 SOP	F1, F3	F, O
Chemical	Equipment to Measure pH (Fixed Point)	7 pH	0.12 pH	Standard Buffer Solutions	QACP001 SOP	F1, F3	F, O
Chemical	Equipment to Measure pH (Fixed Point)	10 pH	0.12 pH	Standard Buffer Solutions	QACP001 SOP	F1, F3	F, O
Chemical	Chlorine Meter Low range	0.264 mg/L	0.11 mg/L	Chlorine Standard Solution - Calibration Curve	QACP008 SOP	F1, F3	F, O
Chemical	Chlorine Meter High Range	60 mg/L	0.46 mg/L	Chlorine Standard Solution - Calibration Curve	QACP008 SOP	F1, F3	F, O
Chemical	Total Organic Carbon (TOC) Meter Low Range	253 µg/kg (ppb)	33 µg/kg (ppb)	TOC Standard Solutions	QACP006 SOP	F1, F3	F, O
Chemical	Total Organic Carbon (TOC) Meter High Range	503 µg/kg (ppb)	33 µg/kg (ppb)	TOC Standard Solutions	QACP006 SOP	F1, F3	F, O
Mechanical	Pressure Gauges	2 psi to 500 psi	0.2 psi	Additel 761A	QACP004 SOP	F1, F2	F, O
Mechanical	Pressure Transmitters and Transducers	2 psi to 500 psi	0.2 psi	Additel 761A	QACP004 SOP	F1, F2	F, O
Thermodynamic	Equipment to Measure Temperature RTD	-25 °C to 200 °C	0.05 °C	Fluke 5615 Probe w/Fluke 1523	QACP003 SOP	F1, F3	F, O
Thermodynamic	Thermometers	150 °C to 200 °C	0.8 °C	Fluke 5615 Probe w/Fluke 6102	QACP003 SOP	F1, F3	F, O
Thermodynamic	Thermometers	5 °C to 177 °C	0.5 °C	Fluke 5615 Probe w/Fluke 1523	QACP003 SOP	F1, F3	F, O

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Fluid Quantities	Pipettes	16 µL to 1 000 µL	0.61 µL	Analytical Balance	QACP005 SOP	F1, F3	F, O
Fluid Quantities	Pipettes	1 000 µL to 2 500 µL	1.3 µL	Analytical Balance	QACP005 SOP	F1, F3	F, O
Fluid Quantities	Pipettes	2 500 µL to 5 000 µL	9.1µL	Analytical Balance	QACP005 SOP	F1, F3	F, O
Fluid Quantities	Pipettes	5 000 µL to 10 000 µL	14 µL	Analytical Balance	QACP005 SOP	F1, F3	F, O
Fluid Quantities	Pipettes	10 mL to 220 mL	0.014 mL	Analytical Balance	QACP005 SOP	F1, F3	F, O

1. The CMC (Calibration and Measurement Capability) stated for calibrations included on this scope of accreditation represents the smallest measurement uncertainty attainable by the laboratory when performing a more or less routine calibration of a nearly ideal device under nearly ideal conditions. It is typically expressed at a confidence level of 95 % using a coverage factor k (usually equal to 2). The actual measurement uncertainty associated with a specific calibration performed by the laboratory will typically be larger than the CMC for the same calibration since capability and performance of the device being calibrated and the conditions related to the calibration may reasonably be expected to deviate from ideal to some degree.

2. The laboratories range of calibration capability for all disciplines for which they are accredited is the interval from the smallest calibrated standard to the largest calibrated standard used in performing the calibration. The low end of this range must be an attainable value for which the laboratory has or has access to the standard referenced. Verification of an indicated value of zero in the absence of a standard is common practice in the procedure for many calibrations but by its definition it does not constitute calibration of zero capacity.

3. Location of activity:

Location Code	Location
F	Conformity assessment activity is performed at the CABs fixed facility
O	Conformity assessment activity is performed onsite at the CABs customer location

4. Measurement uncertainties obtained for calibrations performed at customer sites can be expected to be larger than the measurement uncertainties obtained at the laboratories fixed location for similar calibrations. This is due to the effects of transportation of the standards and equipment and upon environmental conditions at the customer site which are typically not controlled as closely as at the laboratories fixed location.

5. The term L represents length in inches or millimeters as appropriate to the uncertainty statement.

6. The term T represents temperature in ºC or ºF as appropriate to the uncertainty statement.