PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

S.J. Smith Company

3890 East L and A Industrial Drive, Decatur, IL 62521

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

ISO/IEC 17025:2017 & ANSI/NCSI Z540.3-2006 Subclause 5.3

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

Chemical 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:*
December 27, 2018	March 20, 2025	April 30, 2027

Accreditation No.:	*Certificate No.:*
97958	L25-219

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

S.J. Smith Company

3890 East L and A Industrial Drive, Decatur, IL 62521
Contact Name: Junior Barding Phone: 217-853-8293

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

FIELD OF CALIBRATION	MEASURED INSTRUMENT, QUANTITY OR GAUGE	RANGE (AND SPECIFICATION WHERE APPROPRIATE)	CALIBRATION AND MEASUREMENT CAPABILITY EXPRESSED AS AN UNCERTAINTY (±)	CALIBRATION EQUIPMENT AND REFERENCE STANDARDS USED	CALIBRATION MEASUREMENT METHOD OR PROCEDURES USED	LOCATION OF ACTIVITY
Chemical	Gravimetric Balance	1 µmol/mol to 1 000 000 µmol/mol	$(2.30 \times 10^{-1} + 3.70 \times 10^{-2}C)$ µmol/mol	NIST Traceable Weights, Calibrated Balance	ISO 6142	F
Chemical	Paramagnetic Oxygen Analysis	0.5 cmol/mol to 100 cmol/mol	$(1.63 \times 10^{-2} + 1.34 \times 10^{-3}C)$ cmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F
Chemical	Electrochemical Oxygen in Gas analysis	0.14 µmol/mol to 10 µmol/mol	$(-2.92 \times 10^{-3} + 5.86 \times 10^{-2}C)$ µmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F
Chemical	Trace Hydrocarbons in Gas Analysis (FID)	0.055 µmol/mol to 10 µmol/mol	$(1.56 \times 10^{-2} + 2.56 \times 10^{-2}C)$ µmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F
Chemical	Electrolytic moisture Analysis	0.02 µmol/mol to 20 µmol/mol	$(3.19 \times 10^{-1} + 4.91 \times 10^{-2}C)$ µmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F
Chemical	Gas Chromatograph with Thermal Conductivity Detector	0.1 cmol/mol to 100 cmol/mol	$(1.87 \times 10^{-2} + 2.28 \times 10^{-2}C)$ µmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F
Chemical	Trace Nitrogen in Gas Analysis (PED)	0.4 µmol/mol to 10 µmol/mol	$(1.10 \times 10^{-1} + 4.90 \times 10^{-2}C)$ µmol/mol	NIST Traceable Certified Calibration Gases	ISO 6143	F

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.

Certificate of Accreditation: Supplement

S.J. Smith Company
3890 East L and A Industrial Drive, Decatur, IL 62521
Contact Name: Junior Barding Phone: 217-853-8293

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

3. Location of activity:

Location	Location
F	Conformity assessment activity is performed at the CABs fixed facility

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.

PERRY JOHNSON LABORATORY ACCREDITATION, INC.

Certificate of Accreditation

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

S.J. Smith Company

3890 East L and A Industrial Drive, Decatur, IL 62521

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

ISO/IEC 17025:2017
& ANSI/NCSI Z540.3-2006 Subclause 5.3

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

Chemical Testing
(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:*
December 27, 2018	March 20, 2025	April 30, 2027

Accreditation No.:	*Certificate No.:*
97958	L25-218

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

S.J. Smith Company

3890 East L and A Industrial Drive, Decatur, IL 62521
Contact Name: Junior Barding Phone: 217-853-8293

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

FIELD OF TEST	ITEMS, MATERIALS, OR PRODUCTS TESTED	COMPONENT, CHARACTERISTIC, PARAMETER TESTED	SPECIFICATION OR STANDARD METHOD	TECHNOLOGY OR TECHNIQUE USED	FLEX CODE	LOCATION OF ACTIVITY
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.16 ISO 6142:2024	Gravimetric Balance	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.20	Paramagnetic Oxygen Analyzer	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.19	Electrochemical Oxygen (Trace) Analyzer	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.15	Flame Ionization Detector – Total Hydrocarbon Analyzer with Methanizer	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.4	Gas Chromatograph (TCD)	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.12	Electrolytic Moisture Analyzer	F1, F4	F
Chemical	High Pressure Gases, Cryogenic Gases	Gas Mixture Concentration	LWI 2.21	Plasma Emission Detector – Trace Nitrogen Analyzer	F1, F4	F

1. Location of activity:

Location	Location
F	Conformity assessment activity is performed at the CABs fixed facility

2. Flex Code:
   F0- Fixed scope item. No deviations allowed to the line item as identified, except for updating to the most recent version of an accredited standard method after verification.
   F1- Laboratory has the capability to test a new item, material, matrix, or product similar in composition to item, material, matrix, or product identified on the scope
   F2- Laboratory has the capability to introduce the newest revision of an accredited authoritative standard method (with no modifications) identified on the scope
   F3- Laboratory has the capability to introduce a parameter/component/analyte to an accredited test method identified on the scope
   F4- Laboratory has the capability to introduce a new revision of an accredited non-standard method using the same technology or technique identified on the scope
   F5- Laboratory has the capability to introduce a validated method that is equivalent to an accredited method (using same technology or technique) identified on the scope