# PERRY JOHNSON LABORATORY ACCREDITATION, INC.

# *Certificate of Accreditation*

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

## *DS Bioanalytics, LTD*

***29th Omarim Street, Omer, 84965 Israel***

*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, Electrical, Mass, Force & Weighing, Dimensional, Mechanical, Optical, Thermodynamic and Time & Frequency 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 21, 2011 | August 06, 2024 | November 30, 2026 |
| *Revision Date:* | *Accreditation No.:* | *Certificate No.:* |
| March 10, 2025 | 72305 | L24-601-R1 |

*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

## DS Bioanalytics, LTD

29th Omarim Street, Omer, 84965 Israel
Contact Name: Dani Shahar Phone: +97-272-242-9555

*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 | pH Meters | 1.68 pH to 12.45 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | pH Meters | 1.68 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | pH Meters | 4 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | pH Meters | 7.0 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | pH Meters | 10.0 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | pH Meters | 12.45 pH | 0.02 pH | Buffer Standards | ASTM D1293 W-003 | F, O |
| Chemical | Conductivity Meters | 10 µS to 100 mS | 0.1 % of reading | Conductivity standards | W-006 | F, O |
| Chemical | Conductivity Meters | 0.054 µS to 100 mS | 0.1 % of reading | Conductivity standards | W-006 | F, O |
| Chemical | CO2 Analyzers | 0.0 % to 2.5 % | 0.16 % of reading | Gas Standards G-100 | W-018 | F, O |
| Chemical | CO2 Analyzers | 2.6 % to 5.9 % | 0.17 % of reading | Gas Standards G-100 | W-018 | F, O |
| Chemical | CO2 Analyzers | 6 % to 10 % | 0.2 % of reading | Gas Standards G-100 | W-018 | F, O |
| Electrical | Electrical Simulation of pH Meters, Ion Meters & Titrators (Voltage) | -3 000 mV to 3 000 mV | (0.000 58 + 4 x $10^{-5}$V) mV | Glass electrode | W-005 W-003 | F, O |
| Electrical | Conductivity Meters | 0.1 µS to 100 mS | 0.1 % of reading | Resistance Decade | W-006 | F, O |
| Electrical | Electrical Simulation of Temperature Measuring Indicators (Resistance & Voltage) | -200 °C to 200 °C | 0.03 °C | IET RS201W Precision Resistance Substitute | ASTM E2593 W-003 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 1 mg to 500 mg | (2.6 x $10^{-3}$ + 5.36 x 10-$^{6}$Wt) mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 500 mg to 1 g | (4.5 x $10^{-3}$ + 1.44 x 10-$^{6}$Wt) mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 1 g to 60 g | (1.29 x $10^{-2}$ + 3.94 x 10-$^{7}$Wt) mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 60 g to 300 g | (1.14 x $10^{-1}$ + 1.05 x 10-$^{7}$Wt) mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |

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|---|---|---|---|---|---|---|
| Mass, Force, and Weighing Devices | Analytical Balances | 300 g to 500 g | $(1.23 \times 10^{-1} + 7.57 \times 10^{-8} Wt)$ mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 500 g to 1 000 g | $(1.5 \times 10^{-3} + 1.45 \times 10^{-8} Wt)$ mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 1 000 g to 8 000 g | $(1.16 \times 10^{-2} + 5.96 \times 10-8 Wt)$ mg | OIML Class E2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Mass, Force, and Weighing Devices | Analytical Balances | 8 001 g to 15 000 g | $(1.18 \times 10^{-2} + 1.12 \times 10-6 Wt)$ g | OIML Class F2 Weights | OIML R 76-1 USP41 EURAMET CG-18 W-001 | F, O |
| Dimensional | Titrator (Spindle Travel) | 0.015 mm to 100 mm | 0.004 6 mm | Digital Indicator | W-005 | F, O |
| Mechanical | Pipettes, Burettes, Dispensers, Dilutors Syringes | ≤ 1 µL to <10 µL | 0.027 µL | Analytical Balances | ISO 8655 W-002-(Burette) W-004-(Pipettes) W-008-(Dispenser) W-009 (Dilutor) W-019 (Syringes) Gravimetric Method | F, O |
| Mechanical | Pipettes, Burettes, Dispensers, Dilutors Syringes | 10 µL to < 20 µL | 0.044 µL | Analytical Balances | ISO 8655 W-002-(Burette) W-004-(Pipettes) W-008-(Dispenser) W-009 (Dilutor) W-019 (Syringes) Gravimetric Method | F, O |
| Mechanical | Pipettes, Burettes, Dispensers, Dilutors Syringes | 20 µL to < 50 µL | 0.045 µL | Analytical Balances | ISO 8655 W-002-(Burette) W-004-(Pipettes) W-008-(Dispenser) W-009 (Dilutor) W-019 (Syringes) Gravimetric Method | F, O |

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|---|---|---|---|---|---|---|
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 50 µL to < 100 µL | 0.046 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 100 µL to < 200 µL | 0.05 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 200 µL to < 500 µL | 0.18 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 500 µL to < 1ml | 0.34 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |

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|---|---|---|---|---|---|---|
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 1 mL to < 2ml | 0.32 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 2 mL to < 5ml | 0.47 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 5 mL to < 10ml | 0.49 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 10 mL to < 20ml | 0.49 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |

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|---|---|---|---|---|---|---|
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 20 mL to <50 ml | 0.63 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 50 mL to < 100ml | 2.5 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pipettes,<br>Burettes,<br>Dispensers,<br>Dilutors<br>Syringes | 100 mL | 15 µL | Analytical Balances | ISO 8655<br>W-002-(Burette)<br>W-004-(Pipettes)<br>W-008-(Dispenser)<br>W-009 (Dilutor)<br>W-019 (Syringes)<br>Gravimetric Method | F, O |
| Mechanical | Pressure chambers (Autoclaves and Vacuum Ovens) | -12 psi up to 100 psi | 0.27 psi | Fluke Pressure Gauge,<br>Fluke 718 100G<br>Pressure Calibration 100 PSIG | EURAMET CG-17<br>EURAMET CG-11<br>W-016 | F, O |
| Mechanical | Pressure Gauges | -12 psi to 100 psi | 0.27 psi | Fluke Pressure Gauge | EURAMET CG-17 | F, O |
| Mechanical | Atmospheric Pressure Gauges | 600 mBar to 1 030 mBar | 0.8 mBar | Comparison Traceable such as Lutron MHB-382 | W-016 | F, O |
| Mechanical | Differential pressure Gauges | 0 Pa to 200 Pa | 0.75 Pa | Digital monometer | EURAMET CG-17<br>W-016 | F, O |
| Mechanical | Differential Pressure Gauges | 201 Pa to 1 000 Pa | 1 Pa | Digital monometer | EURAMET CG-17<br>W-016 | F, O |

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|---|---|---|---|---|---|---|
| Mechanical | Differential Pressure Gauges | 1 001 Pa to 5 000 Pa | 3 Pa | Digital monometer | EURAMET CG-17<br>W-016 | F, O |
| Mechanical | Differential Pressure Gauges | 5 001 Pa to 9 000 Pa | 5 Pa | Digital monometer | EURAMET CG-17<br>W-016 | F, O |
| Optical | Spectrophotometer, Photometer (Photometer) | Up to 8 ABS | 0.004 6 ABS | filters and solution standards- such as Starna reference filters | W-014 | F, O |
| Optical | Spectrophotometer, Photometer (Wavelength Bandwidth) | 190 nm to 800 nm | 0.11 nm | filters and solution standards- such as Starna reference filters | W-014 | F, O |
| Thermodynamic | Climatic Chamber – calibration and uniformity (Oven Incubator, Cooler, Freezer) | -80 °C to 300 °C | 0.07 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Climatic Chamber – calibration and uniformity (Oven Incubator, Cooler, Freezer) | 300 °C to 400 °C | 0.08 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Climatic Chamber – calibration and uniformity (Oven Incubator, Cooler, Freezer) | 400 °C to 500 °C | 0.07 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Climatic Chamber – calibration and uniformity (Oven Incubator, Cooler, Freezer) | 500 °C to 1 000 °C | 0.75 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Temperature Probes (RTD, Thermocouple, Liquid Thermometer) | -197 °C to 200 °C (Liquid Nitrogen) | 0.03 °C | Bath/Dry Bath:<br>Such as Fluke 7103,<br>Reference calibration probe such as:<br>Fluke 1523, Grant Logger | ASTM E2593<br>ASTM E77<br>EURAMET CG-8<br>W-012<br>ASTM E77 | F, O |

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|---|---|---|---|---|---|---|
| Thermodynamic | Temperature Probes (RTD, Thermocouple, Liquid Thermometer) | 201 °C to 400 °C | 0.05 °C | Bath/Dry Bath: Such as Fluke 7103, Reference calibration probe such as: Fluke 1523, Grant Logger | ASTM E2593 ASTM E77 EURAMET CG-8 W-012 ASTM E77 | F, O |
| Thermodynamic | Temperature Probes (RTD, Thermocouple, Liquid Thermometer) | 401 ° to 550 °C | 1 °C | Bath/Dry Bath: Such as Fluke 7103, Reference calibration probe such as: Fluke 1523, Grant Logger | ASTM E2593 ASTM E77 EURAMET CG-8 W-012 ASTM E77 | F, O |
| Thermodynamic | Temperature Probes (RTD, Thermocouple, Liquid Thermometer) | 551 ° to 800 °C | 1.4 °C | Bath/Dry Bath: Such as Fluke 7103, Reference calibration probe such as: Fluke 1523, Grant Logger | ASTM E2593 ASTM E77 EURAMET CG-8 W-012 ASTM E77 | F, O |
| Thermodynamic | Temperature Probes (RTD, Thermocouple, Liquid Thermometer) | 801 °C to 1 200 °C | 2.3 °C | Bath/Dry Bath: Such as Fluke 7103, Reference calibration probe such as: Fluke 1523, Grant Logger | ASTM E2593 ASTM E77 EURAMET CG-8 W-012 ASTM E77 | F, O |
| Thermodynamic | Liquid Baths | -20 C to 150 °C | 0.03 °C | Fluke 1523, Grant Logger Reference | ASTM E715 EURAMET CG-13 W-011 | F, O |
| Thermodynamic | Precision Temperature Blocks | -80 °C to 200 °C | 0.03 °C | ISOTECH / Fluke reference Calibration probe | W-010 Euramet CG-20 DKD-R 5-7 AMS2750 | F, O |
| Thermodynamic | Precision Temperature Blocks | 200 °C to 300 °C | 0.04 °C | ISOTECH / Fluke reference Calibration probe | W-010 Euramet CG-20 DKD-R 5-7 AMS2750 | F, O |

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|---|---|---|---|---|---|---|
| Thermodynamic | Precision Temperature Blocks | 300 °C to 400 °C | 0.05 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Precision Climatic chamber | 0 °C to 50 °C | 0.03 °C | ISOTECH / Fluke reference Calibration probe | W-010<br>Euramet CG-20<br>DKD-R 5-7<br>AMS2750 | F, O |
| Thermodynamic | Oven/Incubator/ Cooler/Freezer and Uniformity Climate Chambers (Humidity) | 10 % RH to 95 % RH | 1.5 % RH | Grant Humidity Logger | AMS2750<br>EURAMET CG-20<br>DKD-R 5-7<br>W-010 | F, O |
| Thermodynamic | Humidity Sensor with Indicator | 10 % RH to 95 % RH | 0.7 % RH | Humidity Probes | W-012 | F, O |
| Time and Frequency | Centrifuges, Shakers (Rotational Speed) | 10 RPM to 60 000 RPM | 1.1 RPM | Optical- Tachometer | W-015 | F, O |
| Time and Frequency | Stopwatch/Timers | Up to 24 hrs | 0.6 sec/day | Stopwatch | W-017<br>NIST 960-12 | 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.

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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.