HTL LAB SOLUTIONS

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PCA Polskie Centrum Akredytacji WZORCOWANIE
AP 169

Calibration laboratory accredited by
Polish Centre for Accreditation, a signatory to EA MLA and ILAC MRA
that include recognition of calibration certificates.
Accreditation No AP 169

ilac-MRA

CALIBRATION CERTIFICATE

Date of issue: January 23, 2024 | Certificate No: SW/0104/2024 |

OBJECT OF CALIBRATION	Single-channel piston pipette Manufacturer: Corning HTL SA Serial number: 04F15397 Volume: (20 - 200) µl Pipette tips: AXYGEN
APPLICANT	Corning HTL SA 4 Daniszewska Str., 03-230 Warsaw, Poland
PLACE OF CALIBRATION	Corning HTL SA 4 Daniszewska Str., 03-230 Warsaw, Poland
CALIBRATION METHOD	PN-EN ISO 8655-6:2022
ENVIRONMENTAL CONDITIONS	Air temperature: (22.4 ÷ 22.9) °C Relative humidity: (50 ÷ 56.5) % Atmospheric pressure: (1009.7 ÷ 1010.3) hPa Water temperature: (22.4 ÷ 22.6) °C
DATE OF CALIBRATION	January 20, 2024
TRACEABILITY	This certificate is issued under the agreement EA MLA in the field of calibration and provides traceability of measurement results to the International System of Units (SI).
CALIBRATION RESULTS	The results have been presented on page 2 of this certificate including uncertainty of measurement. The measurement results only apply to the calibrated instrument.
UNCERTAINTY OF MEASUREMENT	Uncertainty of measurement has been evaluated in compliance with EA-4/02. The expanded uncertainty assigned corresponds to a coverage probability of 95 % and the coverage factor $k = 2$.

Laboratorium Pomiarowe AP 169

Quality Control Supervisor
Krzysztof Kostro-Olechowski

This certificate may be presented or copied as a whole document only.

CALIBRATION RESULTS Calibration results are the following:

The value of reference volume V_0 µl	Measured volume V µl	Measurement error ΔV µl	Uncertainty of measurement U µl
20	20.40	0.40	0.05
100	100.22	0.22	0.33
200	200.31	0.31	0.33

ADDITIONAL INFORMATION The measured volume value is based on the reference temperature = 20 °C.

Authorized by: Renata Frączek