



PZ HTL S.A.
4 Daniszewska Str.
03-230 Warsaw, Poland
phone: +48 22 492 19 00
htl.info@corning.com
www.htl.pl



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

CALIBRATION CERTIFICATE

Date of issue: February 6, 2018

Certificate No: SW/0034/2018

Page: 1 / 2

OBJECT OF CALIBRATION	Single-channel piston pipette Manufacturer: PZ HTL S.A. Serial number: 856660004 Volume: (100 - 1000) μ l Pipette tips: AXYGEN
APPLICANT	
CALIBRATION METHOD	Control and Calibration Instructions IQL-03-QS p. 7.1
ENVIRONMENTAL CONDITIONS	Air temperature: (22.1 \pm 22.3) °C Relative humidity: (56.7 \pm 58.6) % Atmospheric pressure: (1011 \pm 1011) hPa
DATE OF CALIBRATION	February 6, 2018
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.
UNCERTAINTY OF MEASUREMENT	Uncertainty of measurement has been evaluated in compliance with EA-4/02 M:2013. The expanded uncertainty assigned corresponds to a coverage probability of 95% and the coverage factor $k = 2$.



KIEROWNIK LABORATORIUM

Andrzej Kowalik
Andrzej Kowalik

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
100	99.80	-0.20	0.33
500	497.54	-2.46	1.60
1000	997.20	-2.80	1.60

Authorized by: Kupiec Katarzyna

Katarzyna Kupiec