

## **Certificate of Calibration**

DEC MRA PJLA Calibration

ISO/IEC 17025:2017 Accredited Calibration Accreditation #: 112595

Certificate #: 1014296 Rev 1 Issue Date: 02/24/2023

#### Customer

 Cal Date
 02/24/2023

 Cal Due Date
 08/2023

 PO No.
 08/2023



Equipment In	formation
Equipment ID	P031
Serial Number	242763590
Manufacturer	VWR
Model	HIGH-PERFORMANCE
Description	PIPETTE

As Found Result As Left Result	PASS PASS
Method Used	CM-1023 Rev 2
Temp./RH	22 °C / 61 %
Cal. Location	ON SITE
Metrologist	An
	ALEJANDRO JARPE

#### Standards Used

I.D.	Description	Model Number	Serial Number	Cal. Due Date
UMT-4013	ANALYTICAL BALANCE	AD4212B-101	T0101248	6/3/2023
UMT-5013	THERMOMETER	4371	200671635	2/13/2024

The results published in this report relate only to the item(s) calibrated. The standards used are capable of producing results that are traceable through NIST or a National Measurement Institute to the International System of Units (SI). These calibrations meet the requirements of the UMT Calibration Laboratory Quality Manual. The calibration is compliant with ISO/IEC 17025:2017 and ANSI/NCSL Z540-3. The uncertainties were computed in accordance with the ISO Guide to the Expression of Uncertainty in Measurement (GUM). A coverage factor of approximately 2 sigma (k=2) has been applied to the standard uncertainty to express the expanded uncertainty at approximately 95% confidence level. When statements of compliance are made, the uncertainty of measurement is taken into account. This report may not be reproduced, except in full, unless permission is obtained in writing from the organization issuing this report.

Releasing Authority

Guillermo Blanco

# **Test Points**

Cert # 1014296

### As Found/As Left Data

61 % R.H	Conversion Factor:	1.0031 µL/mg
21.0 °C	Evaporation Trap:	Used
1017 hPa	Expanded Uncertainty:	0.47 μL
Measuring Point (1)	Measuring Point (2)	Measuring Point (3)
100 μL	500 μL	1000 μL
8 µL	8 µL	8 µL
8 %	1.6 %	0.8 %
3 µL	3 µL	3 µL
3 %	0.6 %	0.3 %
Measuring Point (1)	Measuring Point (2)	Measuring Point (3)
μL mg	μL mg	μL mg
99.42 99.11	495.49 493.96	994.70 991.63
100.87 100.56	496.22 494.69	997.92 994.84
99.35 99.04	495.48 493.95	997.73 994.65
99.96 99.65	495.42 493.89	997.05 993.97
99.61 99.30	496.91 495.37	998.61 995.52
Measuring Point (1)	Measuring Point (2)	Measuring Point (3)
99.841 μL	495.905 μL	997.204 μL
0.159 μL	4.095 μL	2.796 μL
0.159 %	0.819 %	0.280 %
PASS	PASS	PASS
0.621 μL	0.648 µL	1.498 µL
0.622 %	0.131 %	0.150 %
PASS	PASS	PASS
	0.622 %	0.622 % 0.131 %

--End of report--