CALIBRATION CERTIFICATE

Number VG250433

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Mettler-Toledo S.A.E.

Laboratorio de Calibración

METTLER TOLEDO

Carrer Segrià 7 - 9

08940 Cornellà de Llobregat (Barcelona)

Tel. 93 223 76 00

Laboratorio.Calibracion@mt.com

ITEM Piston operated burette



MANUFACTURER Mettler Toledo

MODEL DV 1010

NOMINAL VOLUME

10 ml

IDENTIFICATION B229124529

ITEM NUMBER -

APPLICANT Tec Instrumental SA Blas Parera 1007

(B1602CTS) Florida-Vte Lopez

Calibration date 01 July 2025

Autorized Signatory

This certificate in digital format is the original one.
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Este certificado se expide de acuerdo con las condiciones de la acreditación concedida por ENAC, que ha comprobado las capacidades de medida del laboratorio y su trazabilidad a patrones nacionales o internacionales.

ENAC es firmante del Acuerdo de Reconocimiento Mutuo (MLA) de calibración de European Cooperation for Accreditation (EA) y de International Laboratory Accreditation Cooperation (ILAC).

This certificate is issued in accordance with the conditions of acceditation granted by ENAC which has assessed the

This certificate is issued in accordance with the conditions of acreditation granted by ENAC which has assessed the measurement capability of the laboratory and its traceability to national or international standards. ENAC is one of the signatories of the Multilateral Agreement of the European Cooperation for Accreditation (EA) and the International Laboratories Accreditation Cooperation (ILAC).

Instrument information

Burette Mettler Toledo Serial number 0433 Nominal volume 1 ml

Calibration procedure

Procedure PEC/MTE/22 based to the ISO 8655 norm and the METTLER TOLEDO manuals. The measured volume corresponds with delivered volume (Ex) at the reference temperature of 20 °C.

Calibration conditions

Ambient temperature Min. 0 °C Max. 0 °C

Relative humidity % Hr % Hr Pressure Presión atm. mbar

Maintenance: Before calibration, seals (references 101003 and 25737) and piston have been replaced, and burette glass has been cleaned.

Traceability

Standard equipment used Balance

BAL01 AT201 - 5 decimal places balance

VAL-T50

Burette drive Water temperature **TER 144** 0,1 °C resolution Ambient conditions REG05 (air Temp, rH)

2419109811 Class III water

The measured volume has been calculated conform to ISO/TR 20461:2023.

The traceability of measurements are refered to laboratories accredited by ILAC signatories accreditation

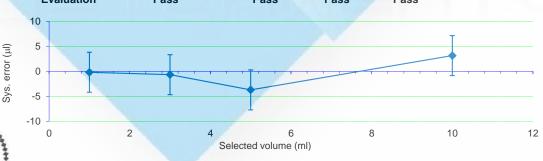
bodies or national laboratories EURAMET signatories.

Uncertainty

The reported expanded measurement uncertainty is stated as the standard measurement uncertainty multiplied by the coverage factor k such that the coverage probability corresponds to approximately 95 %

Calibration results (after maintenance)

Burette stroke	10%	30%	50%	100%		- 100
Selected volume	1	3	5	10	ml	
Water temperature	19,8	19,8	19,8	19,8	°C	
Measured volume	999,8	2999,3	4996,3	10003,1	μl	
Systematic error	-0,2	-0,7	-3,7	3,1	μΙ	
Measurement uncertainty	4,0	4,0	4,0	4,0	μl	
Random error	0,36	0,18	0,42	0,13	μl	
Max. Permissible Sys. Error	20	20	20	20	μl	
Max. Permissible Random Error	7	7	7	7	μl	
Evaluation*	Pass	Pass	Pass	Pass		





Evaluation and permissible errors from ISO 8655-3:2022. According with this norm, uncertainty is not taken into account.

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Technician: P.Cuenca Remarks: ---