

TECHNICAL DATA SHEET

ALab™ dTrite Electronic Burette

Bottle-top electronic burette • 0.01–99.99 mL • 10 µL resolution • 10 mL maximum piston lift • 16 speed levels • built-in magnetic stirrer • Quality Control: ISO 8655



ACS Material ALab™ dTrite Electronic Burette

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ACS MATERIAL, LLC

959 E Walnut St., Suite 100
Pasadena, CA 91106, USA

Phone +1 (866) 227-0656

Fax +1 (781) 518-0284

contact@acsmaterial.com

Revision Date **08/28/2026**

SECTION I

Product Overview

The ALab™ dTrite Electronic Burette is a bottle-top electronic burette for titration. The volume range is 0.01–99.99 mL at 10 µL resolution, with a maximum piston lift of 10 mL stated as a separate specification. Electronic motor control reduces the repetitive manual effort of operation. Speed: 16 levels. Burette and magnetic stirrer functions are combined, and the control type is external control, including the stirrer and the burette program. The external control panel allows operation without directly handling the burette assembly, which helps reduce disturbance during titration, and a large LCD shows operating parameters. Quality Control: ISO 8655; accuracy is specified at 10 mL, 5 mL and 1 mL (Section III).

SECTION II

Core Advantages

- Burette and stirrer combined — burette and magnetic stirrer functions in one system, with the control type covering both
- Electronic motor control — reduces the repetitive manual effort of operation; speed: 16 levels
- 10 µL resolution — a 0.01–99.99 mL listed volume range, with volume accuracy specified at 10 mL, 5 mL and 1 mL
- External control panel and large LCD — operation without directly handling the burette assembly, helping reduce disturbance during titration

SECTION III

Specifications

Technical data

Specifications	
Type	Bottle-top electronic burette
Volume Range	0.01–99.99 mL
Max. Piston Lift	10 mL
Resolution	10 µL
Volume Accuracy	Specified at 10 mL, 5 mL and 1 mL — see the table below
Speed	16 levels
Magnetic Stirrer / Display	Built-in magnetic stirrer · large LCD showing operating parameters
Control Type	External control, including the stirrer and the burette program
Operating Temperature Range	15 °C–40 °C
Quality Control	ISO 8655
Dimensions · Weight · Power	Confirm at quotation

Volume accuracy — specified volumes	
10 mL	Relative error $R = 0.2\%$ · coefficient of variation $CV = 0.07\%$
5 mL	Relative error $R = 0.2\%$ · coefficient of variation $CV = 0.1\%$
1 mL	Relative error $R = 1\%$ · coefficient of variation $CV = 0.5\%$

R is relative error and CV is coefficient of variation. The three volumes are specified individually and the values are not interchangeable: at 1 mL the relative error is 1% and the coefficient of variation 0.5%. Accuracy is specified only at 10 mL, 5 mL and 1 mL. Do not interpolate or extrapolate between these points.

Scope of delivery

- External control configuration and cables: confirm at quotation
- Bottle thread and adapters: confirm at quotation
- dTrite electronic burette with magnetic-stirrer functionality: ACS sales unit 1
- Reagent bottle and receiving flask: confirm at quotation
- Power supply: confirm at quotation
- Options and spare parts: confirm at quotation

SECTION IV

Applications

Typical applications for the ALab™ dTrite Electronic Burette include:

- Bottle-top titration in analytical chemistry
- Food industry laboratories
- Water analysis
- Titration workflows where burette delivery and magnetic stirring are combined in one system

Product value: a 0.01–99.99 mL listed volume range at 10 µL resolution with a 10 mL maximum piston lift, accuracy specified at 10 mL, 5 mL and 1 mL, 16 speed levels, combined burette and magnetic stirrer functions, an external control panel with large LCD, and ISO 8655 quality control.

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