

TECHNICAL DATA SHEET

ALab™ Hipette Mechanical Pipette

Single-channel · 8 / 12 / 16-channel · fully autoclavable · color-coded · 0.1–10000 µL



ALab™ Hipette Mechanical Pipette

The ALab™ Hipette (8-, 12- and 16-channel versions shown). Image shown for reference.

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Revision Date **10/16/2026**

SECTION I

Product Overview

The ALab™ Hipette is a fully autoclavable manual adjustable colorful pipette in single-channel, 8-, 12- and 16-channel versions: lightweight, with a light press force and minimal tip-ejection effort.

The entire pipette can be autoclaved and can also be disinfected with UV light. Single-channel: ten models (0.1–10000 µL); 8- and 12-channel: five ranges each; 16-channel: two ranges.

SECTION II

Core Advantages

- **Color Coding** — different colored caps for different volume ranges
- **4-Digit Display** — high accuracy and clear volume readings
- **Elastic Nozzle Function** — a light touch attaches the tips securely
- **Volume Lock Design** — prevents accidental changes in volume
- **Autoclavable** — entire pipette autoclavable; UV disinfection; easy to disassemble
- **Ergonomic Design** — light press force, comfortable finger rest and handle

SECTION III

Specifications

Technical data — single-channel • 8-channel • 12-channel • 16-channel

Specifications	
Brand	ALab™ by ACS Material
Model	Hipette
SKU #	ALHIPT00
Product Type	Fully Autoclavable Manual Adjustable Colorful Pipette (single-channel, 8-, 12- and 16-channel)
Sterilization	Autoclaving (high-temperature, high-pressure) or UV disinfection
Display	4-digit display
Calibration reference	ISO 8655-2

Volume range and accuracy — single-channel • 8-channel • 12-channel • 16-channel

Single-channel Adjustable Volume Pipettes (10 models, covering 0.1µL~10mL)						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
0.1–2.5	0.002	2.5	±0.04	±1.4	±0.02	±0.7
		1.25	±0.03	±2.5	±0.02	±1.5
		0.25	±0.03	±12.0	±0.02	±6.0
0.5–10	0.01	10	±0.10	±1.0	±0.04	±0.4
		5	±0.08	±1.5	±0.04	±0.8
		1	±0.03	±2.5	±0.02	±1.8
2–20	0.02	20	±0.20	±1.0	±0.06	±0.3
		10	±0.12	±1.2	±0.06	±0.6
		2	±0.10	±5.0	±0.03	±1.5
5–50	0.05	50	±0.45	±0.9	±0.15	±0.3
		25	±0.35	±1.4	±0.20	±0.8
		5	±0.15	±3.0	±0.08	±1.6
10–100	0.1	100	±0.80	±0.8	±0.20	±0.2
		50	±0.50	±1.0	±0.15	±0.3
		10	±0.30	±3.0	±0.10	±1.0
20–200	0.2	200	±1.20	±0.6	±0.40	±0.2
		100	±1.00	±1.0	±0.30	±0.3
		20	±0.50	±2.5	±0.14	±0.7
30–300	0.2	300	±1.80	±0.6	±0.60	±0.2
		150	±1.50	±1.0	±0.45	±0.3
		30	±0.75	±2.5	±0.21	±0.7
100–1000	1	1000	±6.00	±0.6	±2.00	±0.2
		500	±5.00	±1.0	±1.00	±0.2
		100	±3.00	±3.0	±0.60	±0.6
500–5000	5	5000	±30.00	±0.6	±10.00	±0.2
		2500	±15.00	±0.6	±7.50	±0.3
		500	±12.00	±2.4	±3.00	±0.6

Single-channel Adjustable Volume Pipettes (10 models, covering 0.1µL~10mL) (continued)						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
1000~10000	10	10000	±60.00	±0.6	±20.00	±0.2
		5000	±40.00	±0.8	±10.00	±0.2
		1000	±30.00	±3.0	±6.00	±0.6
8-channel Adjustable Volume Pipettes						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
0.5~10	0.01	10	±0.20	±2.0	±0.12	±1.2
		5	±0.20	±4.0	±0.125	±2.5
		1	±0.10	±10.0	±0.06	±6.0
5~50	0.05	50	±0.60	±1.2	±0.30	±0.6
		25	±0.50	±2.0	±0.30	±1.2
		5	±0.25	±5.0	±0.20	±4.0
10~100	0.1	100	±1.00	±1.0	±0.50	±0.5
		50	±0.60	±1.2	±0.50	±1.0
		10	±0.40	±4.0	±0.25	±2.5
20~200	0.2	200	±2.00	±1.0	±1.00	±0.5
		100	±1.50	±1.5	±0.80	±0.8
		20	±0.80	±4.0	±0.40	±2.0
30~300	0.2	300	±3.00	±1.0	±1.50	±0.5
		150	±2.25	±1.5	±1.20	±0.8
		30	±1.20	±4.0	±0.60	±2.0
12-channel Adjustable Volume Pipettes						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
0.5~10	0.01	10	±0.2	±2.0	±0.12	±1.2
		5	±0.2	±4.0	±0.125	±2.5
		1	±0.1	±10.0	±0.06	±6.0
5~50	0.05	50	±0.6	±1.2	±0.3	±0.6
		25	±0.5	±2.0	±0.3	±1.2
		5	±0.25	±5.0	±0.2	±4.0
10~100	0.1	100	±1.0	±1.0	±0.5	±0.5
		50	±0.6	±1.2	±0.5	±1.0
		10	±0.4	±4.0	±0.25	±2.5
20~200	0.2	200	±2	±1.0	±1	±0.5
		100	±1.5	±1.5	±0.8	±0.8
		20	±0.8	±4.0	±0.4	±2.0
30~300	0.2	300	±3	±1.0	±1.5	±0.5
		150	±2.25	±1.5	±1.2	±0.8
		30	±1.2	±4.0	±0.6	±2.0
16-channel Adjustable Volume Pipettes						
Volume range (µL)	Increment (µL)	Test volume (µL)	Systematic error (µL)	Systematic error (%)	Random error (µL)	Random error (%)
1~20	0.01	20	±0.40	±2.0	±0.2	±1.0
		10	±0.40	±4.0	±0.2	±2.0
		2	±0.16	±8.0	±0.1	±5.0
5~100	0.1	100	±1.00	±1.0	±0.6	±0.6
		50	±0.60	±1.2	±0.4	±0.8
		10	±0.30	±3.0	±0.2	±2.0

Scope of delivery

- **Standard configuration:** one ALab™ Hipette of the selected configuration and volume range, or pipette set.
- **Additional items:** specify separately in the quotation. The TDS lists the product specifications, not the standard packing list.

SECTION IV

Applications

The HiPette offers color coding, a volume lock design, a 4-digit display and an elastic nozzle function for multi-channel pipetting; the entire pipette can be autoclaved or disinfected with UV light.

Product value: a fully autoclavable manual adjustable pipette with color coding, volume lock and a 4-digit display. Confirm the channel configuration and volume range before ordering.

Revision Date: 10/16/2026

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