

TECHNICAL DATA SHEET

ALab™ Mi-Pette Mechanical Pipette

Single-channel · 8-channel · 12-channel · fully autoclavable · 0.1–10000 µL



ALab™ Mi-Pette Mechanical Pipette

The ALab™ Mi-Pette (single-channel units shown). Image shown for reference.

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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

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SECTION I

Product Overview

The ALab™ Mi-Pette is a new generation colorful, fully autoclavable adjustable pipette in single-channel, 8-channel and 12-channel versions. It has a comfortable grip that reduces repetitive strain injuries (RSI) in the hands, color-coded identification, RFID wireless functionality (data chip reading, customizable) and a density adjustment function.

It can be sterilized through high-temperature and high-pressure autoclaving, or UV sterilization. Single-channel: nine volume ranges (0.1–10000 µL); 8-channel and 12-channel: four ranges each (0.5–300 µL).

SECTION II

Core Advantages

- **Ergonomic Design** — comfortable grip, reduces RSI in the hands
- **RFID Wireless Functionality** — data chip reading function (customizable)
- **Autoclavable** — high-temperature, high-pressure autoclaving or UV sterilization
- **Color-Coded Identification** — colored cap design distinguishes volumes
- **Density Adjustment Function** — more accurate pipetting of complex liquid samples
- **Fine volume adjustment** — micro scale and pointer for coarse and fine tuning

SECTION III

Specifications

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

Specifications	
Brand	ALab™ by ACS Material
Model	Mi-Pette
SKU #	ALMIPT00
Product Type	Fully Autoclavable Adjustable Pipette (single-channel, 8-channel & 12-channel)
Single-channel	Nine volume ranges, 0.1–10000 µL
8-channel	Four volume ranges, 0.5–300 µL
12-channel	Four volume ranges, 0.5–300 µL
Sterilization	Autoclaving (high-temperature, high-pressure) or UV sterilization
Data chip	RFID wireless functionality (customizable)

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

Single-channel Adjustable Volume Pipettes						
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	±0.06	±2.5	±0.05	±2.0
		1.25	±0.06	±5.0	±0.05	±4.0
		0.25	±0.06	±25	±0.05	±20
0.5–10	0.01	10	±0.12	±1.2	±0.08	±0.8
		5	±0.12	±2.4	±0.08	±1.6
		1	±0.12	±12	±0.08	±8.0
2–20	0.02	20	±0.2	±1.0	±0.1	±0.5
		10	±0.2	±2.0	±0.1	±1.0
		2	±0.2	±10	±0.1	±5.0
5–50	0.05	50	±0.5	±1.0	±0.25	±0.5
		25	±0.5	±2.0	±0.25	±1.0
		5	±0.5	±10	±0.25	±5.0
10–100	0.1	100	±0.8	±0.8	±0.3	±0.3
		50	±0.8	±1.6	±0.3	±0.6
		10	±0.8	±8.0	±0.3	±3.0
20–200	0.2	200	±1.6	±0.8	0.6	±0.3
		100	±1.6	±1.6	0.6	±0.6
		20	±1.6	±8.0	0.6	±3.0
100–1000	1	1000	±8	±0.8	±3	±0.3
		500	±8	±1.6	±3	±0.6
		100	±8	±8.0	±3	±3.0

Single-channel Adjustable Volume Pipettes (continued)						
Volume range (μL)	Increment (μL)	Test volume (μL)	Systematic error (μL)	Systematic error (%)	Random error (μL)	Random error (%)
500-5000	5	5000	±40	±0.8	±15	±0.3
		2500	±40	±1.6	±15	±0.6
		500	±40	±8.0	±15	±3.0
1000-10000	10	10000	±60	±0.6	±30	±0.3
		5000	±60	±1.2	±30	±0.6
		1000	±60	±6.0	±30	±3.0
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	±0.24	±2.4	±0.16	±1.6
		5	±0.24	±4.8	±0.16	±3.2
		1	±0.24	±24	±0.16	±16
5-50	0.05	50	±1	±2.0	±0.4	±0.8
		25	±1	±4.0	±0.4	±1.6
		5	±1	±20	±0.4	±8.0
10-100	0.1	100	±1.6	±1.6	±0.6	±0.6
		50	±1.6	±3.2	±0.6	±1.2
		10	±1.6	±16	±0.6	±6.0
30-300	0.2	300	±4.8	±1.6	±1.8	±0.6
		150	±4.8	±3.2	±1.8	±1.2
		30	±4.8	±16	±1.8	±6.0
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	±0.24	±2.4	±0.16	±1.6
		5	±0.24	±4.8	±0.16	±3.2
		1	±0.24	±24	±0.16	±16
5-50	0.05	50	±1	±2.0	±0.4	±0.8
		25	±1	±4.0	±0.4	±1.6
		5	±1	±20	±0.4	±8.0
10-100	0.1	100	±1.6	±1.6	±0.6	±0.6
		50	±1.6	±3.2	±0.6	±1.2
		10	±1.6	±16	±0.6	±6.0
30-300	0.2	300	±4.8	±1.6	±1.8	±0.6
		150	±4.8	±3.2	±1.8	±1.2
		30	±4.8	±16	±1.8	±6.0

Scope of delivery

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

SECTION IV

Applications

The Mi-Pette offers an ergonomic grip, color-coded identification, RFID wireless functionality (customizable), a density adjustment function, replaceable labels, a rotatable push button cap and a fine volume adjustment design; it can be sterilized through autoclaving or UV sterilization.

Product value: a fully autoclavable adjustable pipette in single-channel, 8-channel and 12-channel versions with ergonomic design and fine volume adjustment. Confirm the channel configuration and volume range before ordering.

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