

TECHNICAL DATA SHEET

ALab™ MicroPette Plus Fully Autoclavable Mechanical Pipette

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



ALab™ MicroPette Plus Fully Autoclavable Mechanical Pipette

The ALab™ MicroPette Plus (single-, 8- and 12-channel versions shown). Image shown for reference.

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SECTION I

Product Overview

The ALab™ MicroPette Plus is a fully autoclavable mechanical pipette in adjustable single-channel, fixed volume, 8-channel and 12-channel versions, withstanding 121 °C and 1 ATM without pre-treatment.

After autoclaving allow a 12 hour cooling and drying period; grease the piston and rubber seals every 10 cycles.

SECTION II

Core Advantages

- **Autoclavable** — 121 °C, 1 ATM, no pre-treatment
- **Spring Loaded Tip Cones** — easy cleaning and maintenance
- **Calibration** — easy calibration and maintenance
- **Rotating Head** — dispensing head rotates
- **Sealing Tip Cone** — high sealing performance
- **Formats** — fixed and adjustable; 8 and 12 channel

SECTION III

Specifications

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

Specifications	
Brand	ALab™ by ACS Material
Model	MicroPette Plus
SKU #	ALMCPPO0
Product Type	Fully Autoclavable Mechanical Pipette
Sterilization	Fully autoclavable: 121 °C, 1 ATM; no pre-treatment needed

Volume range and accuracy — single-channel • fixed volume • 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	0.05	2.5	±0.0625	±2.50	±0.05	±2.00
		1.25	±0.0375	±3.00	±0.0375	±3.00
		0.25	±0.03	±12.00	±0.015	±6.00
0.5–10	0.1	10	±0.1	±1.00	±0.08	±0.80
		5	±0.075	±1.50	±0.075	±1.50
		1	±0.025	±2.50	±0.015	±1.50
2–20	0.5	20	±0.18	±0.90	±0.08	±0.40
		10	±0.12	±1.20	±0.1	±1.00
		2	±0.06	±3.00	±0.04	±2.00
5–50	0.5	50	±0.3	±0.60	±0.15	±0.30
		25	±0.225	±0.90	±0.15	±0.60
		5	±0.1	±2.00	±0.1	±2.00
10–100	1	100	±0.8	±0.80	±0.15	±0.15
		50	±0.5	±1.00	±0.2	±0.40
		10	±0.3	±3.00	±0.15	±1.50
20–200	1	200	±1.2	±0.60	±0.3	±0.15
		100	±0.8	±0.80	±0.3	±0.30
		20	±0.6	±3.00	±0.2	±1.00
50–200	1	200	±1.2	±0.60	±0.3	±0.15
		100	±0.8	±0.80	±0.3	±0.30
		50	±0.5	±1.00	±0.2	±0.40
100–1000	5	1000	±6	±0.60	±2	±0.20
		500	±3.5	±0.70	±1.25	±0.25
		100	±2	±2.00	±0.7	±0.70
200–1000	5	1000	±6	±0.60	±2	±0.20
		500	±3.5	±0.70	±1.25	±0.25
		200	±1.8	±0.90	±0.6	±0.30
500–5000	50	5000	±25	±0.50	±7.5	±0.15
		2500	±15	±0.60	±7.5	±0.30
		500	±3.5	±0.70	±1.5	±0.30
1000–5000	50	5000	±25	±0.50	±7.5	±0.15
		2500	±15	±0.60	±7.5	±0.30
		1000	±7	±0.70	±3	±0.30
1000–10000	100	10000	±60	±0.60	±20	±0.20
		5000	±60	±1.20	±15	±0.30
		1000	±30	±3.00	±6	±0.60
Fixed Volume Pipettes						
Volume range (μL)	Increment (μL)	Test volume (μL)	Systematic error (μL)	Systematic error (%)	Random error (μL)	Random error (%)
5	-	5	±0.065	±1.3	±0.06	±1.2
10	-	10	±0.08	±0.8	±0.08	±0.8
20	-	20	±0.12	±0.6	±0.1	±0.5

Fixed Volume Pipettes (continued)						
Volume range (μL)	Increment (μL)	Test volume (μL)	Systematic error (μL)	Systematic error (%)	Random error (μL)	Random error (%)
25	-	25	±0.125	±0.5	±0.075	±0.3
50	-	50	±0.25	±0.5	±0.15	±0.3
100	-	100	±0.5	±0.5	±0.3	±0.3
200	-	200	±0.8	±0.4	±0.4	±0.2
250	-	250	±1.0	±0.4	±0.5	±0.2
500	-	500	±1.5	±0.3	±1.0	±0.2
1000	-	1000	±3.0	±0.3	±2.0	±0.2
2000	-	2000	±6.0	±0.3	±3.0	±0.15
5000	-	5000	±15	±0.3	±7.5	±0.15
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	0.1	10	±0.15	±1.50	±0.15	±1.50
		5	±0.125	±2.50	±0.125	±2.50
		1	±0.04	±4.00	±0.04	±4.00
5–50	0.5	50	±0.5	±1.00	±0.25	±0.50
		25	±0.375	±1.50	±0.25	±1.00
		5	±0.15	±3.00	±0.1	±2.00
10–100	1	100	±0.8	±0.80	±0.3	±0.30
		50	±0.5	±1.00	±0.4	±0.80
		10	±0.3	±3.00	±0.2	±2.00
20–200*	0.1	200	±1.4	±0.70	±0.5	±0.25
		100	±1.0	±1.00	±0.5	±0.50
		20	±0.6	±3.00	±0.32	±1.60
30–300*	0.2	300	±2.1	±0.70	±0.75	±0.25
		150	±1.5	±1.00	±0.75	±0.5
		30	±0.9	±3.00	±0.48	±1.60
50–300	5	300	±2.1	±0.70	±0.75	±0.25
		150	±1.5	±1.00	±0.75	±0.50
		50	±0.75	±1.50	±0.4	±0.80
100–1000	10	1000	±10	±1.00	±3	±0.30
		500	±10	±2.00	±2.5	±0.50
		100	±5	±5.00	±1	±1.00
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	0.1	10	±0.15	±1.50	±0.15	±1.50
		5	±0.125	±2.50	±0.125	±2.50
		1	±0.04	±4.00	±0.04	±4.00
5–50	0.5	50	±0.5	±1.00	±0.25	±0.50
		25	±0.375	±1.50	±0.25	±1.00
		5	±0.15	±3.00	±0.1	±2.00
10–100	0.1	200	±1.4	±0.70	±0.5	±0.30
		100	±1.0	±1.00	±0.5	±0.80
		20	±0.6	±3.00	±0.32	±2.00
20–200*	0.2	300	±2.1	±0.70	±0.75	±0.25
		150	±1.5	±1.00	±0.75	±0.50
		30	±0.9	±3.00	±0.48	±1.60
30–300*	1	100	±0.8	±0.80	±0.3	±0.30
		50	±0.5	±1.00	±0.4	±0.80
		10	±0.3	±3.00	±0.2	±2.00
50–300	5	300	±2.1	±0.70	±0.75	±0.25
		150	±1.5	±1.00	±0.75	±0.50
		50	±0.75	±1.50	±0.4	±0.80

Scope of delivery

- **Standard configuration:** one ALab™ MicroPette Plus of the selected 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

A fully autoclavable mechanical pipette with spring loaded tip cones, a rotating dispensing head and easy calibration.

Fixed and adjustable formats, 8 and 12 channel options; confirm the configuration and volume range before ordering.

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