

Pipettes

TopPette-Mechanical Pipettes

Features for TopPette:

- * Light weight, ergonomic, low force design
- * Digital display clearly reads volume setting
- * The pipettes cover volume range of 0.1µl to 10ml
- * Easy to calibrate and maintain
- * The lower part is autoclavable
- * Design helps avoid repetitive strain injuries

Features for Multi-channel TopPette:

- * 8 and 12 channel pipettes are available for standard 96-well plate
- * Dispensing head rotates ensures optimum pipetting convenience
- * Individual piston/tip cone assemblies allow easy repair and maintenance
- * Compound material tip cone design allows visual seal verification
- * Universal pipette tips can be used



MicroPette Mechanical Pipettes

Features for MicroPette:

- * Light weight, ergonomic, low force design
- * Digital display clearly reads volume setting
- * The pipettes cover volume range of 0.1µl to 10ml
- * Easy to calibrate and maintain
- * The lower part is autoclavable
- * Design helps avoid repetitive strain injuries
- * Manufactured from innovative materials

Features for multi-channel MicroPette:

- * 8 and 12 channel pipettes are available for standard 96-well plate
- * Dispensing head rotates for optimum pipetting convenience
- * Individual piston and tip cone assemblies allow easy repair and maintenance
- * Compound material tip cone design allows visual seal verification
- * Universal pipette tips can be used



MicroPette Plus Autoclavable Pipette

Fully Autoclavable:

The MicroPette plus pipettes can be fully autoclaved at 121°C, 1 atm for less than 20 mins. The pipettes can be autoclaved without special preparations. After autoclaving the pipette must be cooled down and dried over 12 hours.

Features for MicroPette plus:

- * Fully autoclavable
- * Light weight, ergonomic, low force design
- * Digital display clearly reads volume setting
- * The pipettes cover volume range of 0.1µl to 10ml
- * Easy to calibrate and maintain
- * Design helps avoid repetitive strain injuries
- * Manufactured from innovative materials

Features for multi-channel MicroPette plus:

- * 8 and 12 channel pipettes are available for standard 96-well plate
- * Individual piston and tip cone assemblies allow easy repair and maintenance
- * Compound material tip cone design allows visual seal verification
- * Universal pipette tips can be used
- * Dispensing head rotates for optimum pipetting convenience



Note: It is recommended to check the performance of the pipette after each autoclaving. It is also recommended to grease the piston and seal of the pipette after each 10 autoclaving.

Technical Parameters:

TopPette Mechanical Pipettes/ MicroPette Mechanical Pipettes / MicroPette Plus Autoclavable Pipettes (Adjustable and Fixed Volume)

Single-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume(μl)	Maximum Permissible Systematic Error		Maximum Permissible Random Error	
0.1-2.5μl	0.05μl	2.5	2.50%	0.0625μl	2.00%	0.05μl
		1.25	3.00%	0.0375μl	3.00%	0.0375μl
		0.25	12.00%	0.03μl	6.00%	0.015μl
0.5-10μl	0.1μl	10	1.00%	0.1μl	0.80%	0.08μl
		5	1.50%	0.075μl	1.50%	0.075μl
		1	2.50%	0.025μl	1.50%	0.015μl
2-20μl	0.5μl	20	0.90%	0.18μl	0.40%	0.08μl
		10	1.20%	0.12μl	1.00%	0.1μl
		2	3.00%	0.06μl	2.00%	0.04μl
5-50μl	0.5μl	50	0.60%	0.3μl	0.30%	0.15μl
		25	0.90%	0.225μl	0.60%	0.15μl
		5	2.00%	0.1μl	2.00%	0.1μl
10-100μl	1μl	100	0.80%	0.8μl	0.15%	0.15μl
		50	1.00%	0.5μl	0.40%	0.2μl
		10	3.00%	0.3μl	1.50%	0.15μl
20-200μl	1μl	200	0.60%	1.2μl	0.15%	0.3μl
		100	0.80%	0.8μl	0.30%	0.3μl
		20	3.00%	0.6μl	1.00%	0.2μl
50-200μl	1μl	200	0.60%	1.2μl	0.15%	0.3μl
		100	0.80%	0.8μl	0.30%	0.3μl
		50	1.00%	0.5μl	0.40%	0.2μl
100-1000μl	5μl	1000	0.60%	6μl	0.20%	2μl
		500	0.70%	3.5μl	0.25%	1.25μl
		100	2.00%	2μl	0.70%	0.7μl
200-1000μl	5μl	1000	0.60%	6μl	0.20%	2μl
		500	0.70%	3.5μl	0.25%	1.25μl
		200	0.90%	1.8μl	0.30%	0.6μl
1000-5000μl	50μl	5000	0.50%	25μl	0.15%	7.5μl
		2500	0.60%	15μl	0.30%	7.5μl
		1000	0.70%	7μl	0.30%	3μl
2-10ml	0.1ml	10ml	0.60%	60μl	0.20%	20μl
		5ml	1.20%	60μl	0.30%	15μl
		2ml	3.00%	60μl	0.60%	12μl

Note: 2~10ml is not available for micropette plus autoclaveable pipettes.

8-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume(μl)	Maximum Permissible Systematic Error		Maximum Permissible Random Error	
0.5-10μl	0.1 μl	10	1.50%	0.15μl	1.50%	0.15μl
		5	2.50%	0.125μl	2.50%	0.125μl
		1	4.00%	0.04μl	4.00%	0.04μl
5-50μl	0.5μl	50	1.00%	0.5μl	0.50%	0.25μl
		25	1.50%	0.375μl	1.00%	0.25μl
		5	3.00%	0.15μl	2.00%	0.1μl
50-300μl	5μl	300	0.70%	2.1μl	0.25%	0.75μl
		150	1.00%	1.5μl	0.50%	0.75μl
		50	1.50%	0.75μl	0.80%	0.4μl
12-channel Adjustable Volume Pipettes						
Volume Range	Increment	Test Volume(μl)	Maximum Permissible Systematic Error		Maximum Permissible Random Error	
0.5-10μl	0.1 μl	10	1.50%	0.15μl	1.50%	0.15μl
		5	2.50%	0.125μl	2.50%	0.125μl
		1	4.00%	0.04μl	4.00%	0.04μl
5-50μl	0.5μl	50	1.00%	0.5μl	0.50%	0.25μl
		25	1.50%	0.375μl	1.00%	0.25μl
		5	3.00%	0.15μl	2.00%	0.1μl
50-300μl	5μl	300	0.70%	2.1μl	0.25%	0.75μl
		150	1.00%	1.5μl	0.50%	0.75μl
		50	1.50%	0.75μl	0.80%	0.4μl
Fixed Volume Pipettes						
Volume Range	Increment	Test Volume(μl)	Maximum Permissible Systematic Error		Maximum Permissible Random Error	
5μl	/	5μl	1.3%	0.065μl	1.2%	0.06μl
10μl	/	10μl	0.8%	0.08μl	0.8%	0.08μl
20μl	/	20μl	0.6%	0.12μl	0.5%	0.1μl
25μl	/	25μl	0.5%	0.125μl	0.3%	0.075μl
50μl	/	50μl	0.5%	0.25μl	0.3%	0.15μl
100μl	/	100μl	0.5%	0.5μl	0.3%	0.3μl
200μl	/	200μl	0.4%	0.8μl	0.2%	0.4μl
250μl	/	250μl	0.4%	1.0μl	0.2%	0.5μl
500μl	/	500μl	0.3%	1.5μl	0.2%	1.0μl
1000μl	/	1000μl	0.3%	3.0μl	0.2%	2.0μl
2000μl	/	2000μl	0.3%	6.0μl	0.15%	3.0μl
5000μl	/	5000μl	0.3%	15μl	0.15%	7.5μl

Levo Plus Pipette Filler

Features:

- * Volume range of 0.1-100ml
- * One-handed operation
- * Light weight, ergonomic design
- * Efficient lithium-ion battery offers long runtime on each charge
- * Low battery alarm
- * Powerful motor fills a 25ml pipette within 5 seconds
- * Integral and replaceable 0.45um filter
- * Large LCD display
- * Eight speeds are available for aspirating and dispensing liquid



Technical Parameters:

Item No.	7033110100
Aspirate Speeds	25mL<5s (6 shift)
Dispense Speed	Motor (6 shift)/Gravity
Battery	Lithium-Ion
Battery Working Time	8 hours of intermittence use
Charging Time	Approx 2 hours
Pipette	Glass or Plastic Pipette(0.1-100ml), Pasteur Pipettes
Filter	0.45 µm Hydrophobic

Ordering information:

Cat No.	Descriptions
70331100100	Levo Plus with AC adapter, spare 0.45um filter and wall stand, Euro plug
	Levo Plus with AC adapter, spare 0.45um filter and wall stand, North-America plug
	Levo Plus with AC adapter, spare 0.45um filter and wall stand, UK plug
Standard accessories	
17400032	Levo Plus charger
17000205	Levo Plus Lithium battery
17000103	Filter 0.45um, 1pc/pk

Electronic Pipette

Features:

- * A motor drive digital control pipette with multifunction Pipetting, Mixing, Stepper and Dilution.
- * 2 buttons handle all operation and setting.
- * Light weight, ergonomic design, small body dimension for easy handling that guarantees fatigue free pipetting.
- * High accuracy, high performance stepper motor assures precision and repeatability and eliminates manual pipetting errors.
- * A wide range of pipetting modules for selection.
- * Adjustable speeds for aspiration and dispensing.
- * Li-ion battery and two charging mode enable longer operation time.
- * Self calibration – By link it to a PC and a balance with USB connector, user can calibrate pipette by himself. No need to send it to the third party for calibration.



Technical Parameters:

Volume Range	Increment	Test Volume	Inaccuracy		Imprecision	
		µL	µL	%	s.d.*µL	CV*%
0.5-10µL	0.01µL	10	±0.10	±1.0	0.05	0.5
		1	±0.035	±3.5	0.03	3.0
5-50µL	0.1µL	50	±0.40	±0.8	0.15	0.3
		5	±0.15	±3.0	0.125	2.5
30-300µL	1µL	300	±1.8	±0.6	0.6	0.2
		30	±0.9	±3.0	0.21	0.7
100-1000µL	5µL	1000	±6.0	±0.6	2.0	0.2
		100	±3.0	±3.0	0.6	0.6

*s.d. = Standard Deviation *CV = Coefficient of Variation

Pipette Stand

The linear and round stands have been designed to fit perfectly of BIOBASE Pipette range, TopPette, MicroPette and MicroPette Plus Autoclavable Pipettes. The stands are convenient to hold up 6 pipettes both of single and multi-channel.



The round stand can rotate smoothly and comfortably hold up to 6 pipettes



The linear stand can hold of single and multi-channel pipettes up to 6

Ordering Information:

Cat. No	Descriptions
703000084	Round stand holds up to 6 pipettes, fit of TopPette, MicroPette and MicroPette Plus
703000085	Linear stand holds up to 6 pipettes, fit of TopPette, MicroPette and MicroPette Plus

Dispenser

DispensMate Bottle-Top Dispenser

Features:

- * Excellent chemical resistance
- * Fully autoclavable at 121°C
- * Easy to clean and maintain
- * Made of PTFE, FEP, BSG, PP
- * Four ranges of bottle-top dispenser cover a volume range from 0.5ml to 50ml
- * The optional flexible discharge tube with safety handle permits fast and precise dispensing
- * Vapor pressure Max. 500mbar, viscosity max. 500mm²/s, temperature max. 40°C, density max. 2.2g/cm³
- * DispensMate plus is supplied with S40, GL32, GL38, GL25, GL28 sized adapters



Technical Parameters:

Volume Range	Graduation	A _s ±	CV≤
0.5-5ml	0.1ml	0.5% 25μl	0.1% 5μl
1.0-10ml	0.2ml	0.5% 50μl	0.1% 10μl
2.5-25ml	0.5ml	0.5% 125μl	0.1% 25μl
5.0-50ml	1.0ml	0.5% 250μl	0.1% 50μl

A = Accuracy; CV = Coefficient of variation.

Ordering Information:

Cat. No.	Volume Range
7012100101	0.5-5ml
7032100002	1-10ml
7032100003	2.5-25ml
7032100004	5-50ml

Cat. No.	Volume Range
Standard Accessories	
17000069	S40, Adapter, 45/40mm
17400017	GL32, Adapter, 45/32mm
17400018	GL38, Adapter, 45/38mm
17400019	GL25, Adapter, 32/25mm
17400020	GL28, Adapter, 32/28mm
17400021	Filling tube (m)
17400073	Discharge tube (m)
Optional Accessories	
17400037	Reagent Bottle (Brown, 1L)

Electronic Bottle-Top Dispenser



Features:

- * Motor operation minimizes the grip force.
- * Electronic control decreases the repetitive strain injury.
- * Remote control panel prevents manual disturbance during operation.
- * Two dispensing modes.
- * Dispenser.
- * Stepper function.

Technical Parameters:

Model	DFlow
Item No.	7012300001
Volume Range	0.01~99.99ml, Max piston lift is 10ml, resolution is 10μl
Volume Accuracy	R=0.2% CV=0.07%
Operating Temperature Range	10°C~30°C
Quality Control	DIN EN ISO 8655
Contro Type	External control, including the stirrer and the burette program