Labotronics

Adjustable Volume Micro Pipette

LB-13AVP

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1. Introduction

Adjustable Volume Micro Pipette LB-13AVP is a portable and durable single-channel micropipette with a pipetting range of 5 to 50 µL and with an increment of 0.5 µL. It is autoclavable at 121℃under 1 bar pressure for 20 minutes. This pipette employs a spring-loaded design for easy maintenance of tip cones. The tip cones are constructed with chemical-resistant material for extended service life.

2. Features

1. Furnished with an intuitive digital display
2. Adheres to ISO 8655 standards for precise operation
3. Built with a dispensing head that can rotate smoothly
4. Offers easy calibration, cleaning, and maintenance
5. Enhanced with sealing performance of the tip cones
6. Equipped with a low-force tip ejector for easy pipetting
7. Features a volume adjustment push button for comfortable finger support

3. Specifications

Model No.	LB-13AVP
Volume range	5 to 50 µL
Increment	0.5 µL
Test volume	50 µL, 25 µL, 5 µL
Accuracy Error	± 0.3 µL, ± 0.225 µL, ± 0.1 µL ± 0.60 %, ± 0.90 %, ± 2.00 %
Precision Error	± 0.15 µL, ± 0.15 µL, ± 0.1 µL ± 0.30 %, ± 0.60 %, ± 2.00 %

4. Applications

Single Channel Adjustable Volume Micro Pipette is employed for accurate measurement and for transferring liquid samples within the microliter range. It finds applications in various fields including molecular biology, microbiology, immunology, cell culture, analytical chemistry, biochemistry, genetics and more.

5. Instrument Introduction

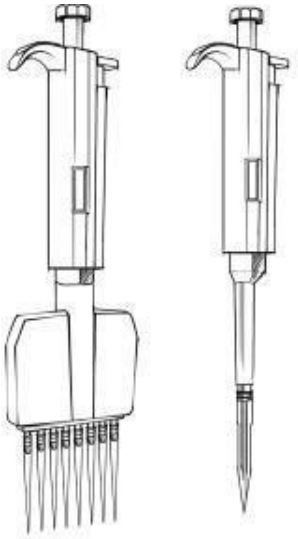

Figure-1

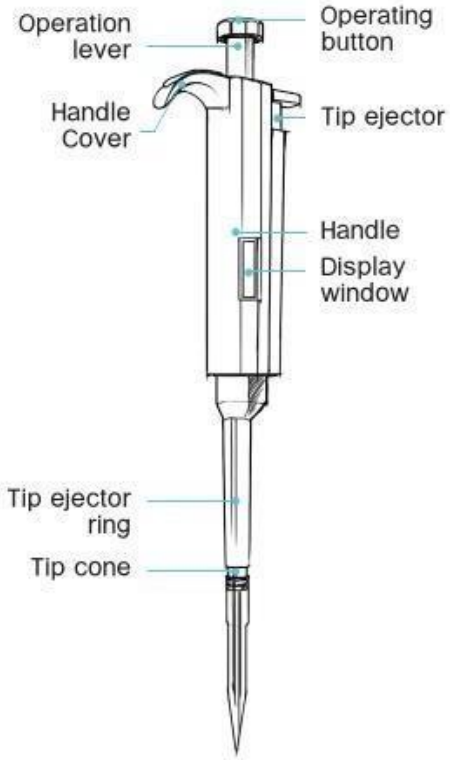

Figure-2

6. Installation

Mount the pipette holder

1) Clean the surface with alcohol and peel off the protective paper from the adhesive tapeof the holder.
2) Press the holder against the clean surface on the shelf and hang the pipette vertically on the holder.

7. Operations

1) Rotate the operating button to adjust the volume setting within the permissible range and check the set volume in the display window.
2) Press the tip tightly on the tip cone.

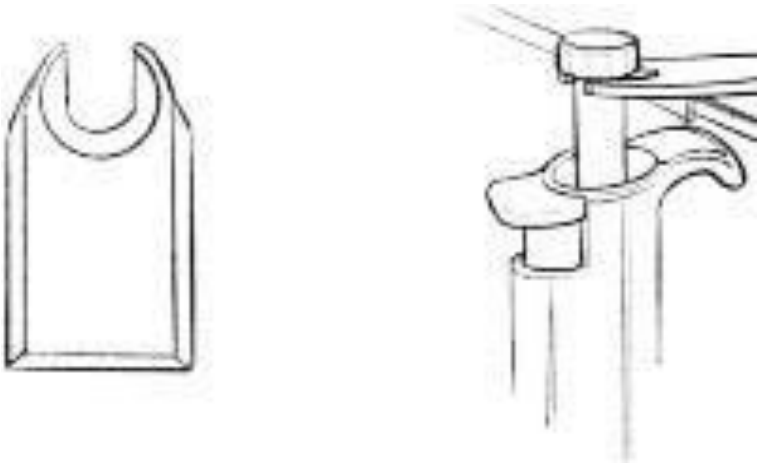

Figure-3

7.1 Forward pipetting

- Press the operating button on the first stop point.
- Immerse the tip 2-3mmm below the liquid surface gently.
- Slowly press the button to the starting position.
- Carefully withdraw the tip from the liquid, touching against the edge of the containerto remove excess liquid.
- Press the button on the first stop point to dispense the liquid.
- After a brief pause continue to press the button to the second stop point this step will empty the tip and ensure accurate liquid transfer.
- If necessary, replace the tip and continue pipetting.
- Press the ejector to remove and discard the tip.

7.2 Reverse pipetting

- Press the operating button to the second stop point immerse the pipette tip 2-3mmbelow the liquid surface and slowly release the button back to the starting position.
- Carefully withdraw the tip from the liquid touching the edge of the container to remove excess liquid.
- Gently press the button on the first stop point to dispense the liquid.
- Hold the operating button at the first stop; the liquid in the tip should not be includedin the delivery.

- Discard the excessive liquid along with the tip or return it to the original container.
- Keep the pipette, tip, and liquid at the same temperature.
- Press the tip tightly on the tip cone.
- Hold the pipette vertically with the tip immersed only millimeters below the liquid surface during aspiration or dispensing.
- Rinse the tip at least 5 times especially while operating viscous liquids or liquids with density different from water.
- Always control the operating button movement with your thumb to ensure consistency.