

BASICPETTE

USER'S GUIDE

Multi-Volume Pipette Fixed Volume Pipette



AccuBioTech Co., Ltd.
Accurate, Reliable, Cost Effective

INTRODUCTION

Thank you for purchasing our BASICPETTE single channel pipette! You can benefit from the following features of our BASICPETTE:

- 1.BASICPETTE aspirates and dispense volumes of liquid precisely and safely.
- 2.BASICPETTE series pipettes include 5 models of multi-volume adjustable pipettes and 10 models of volume fixed pipettes, which can meet your basic volume needs.
- 3.The volume is set by turning the push-button. The push-button makes it easy and quick to set volumes.
- 4.A tip ejector button simplifies the discarding of the tip and makes the operation safe.
- 5.Each BASICPETTE is factory calibrated and carefully checked gravimetrically.

MODELS AND VOLUMES

Multi-Volume Adjustable Pipettes:

| | |
|--------------|------------------------------|
| ABT-BPA-25 | 5, 10, 15, 20, 25 |
| Model | 10, 20, 30, 40, 50 |
| ABT-BPA-50 | 50, 100, 150, 200, 250 |
| ABT-BPA-250 | 100, 200, 300, 400, 500 |
| ABT-BPA-500 | 200, 400, 600, 800, 1000 |
| ABT-BPA-1000 | 500, 1000, 1500, 2000, 2500 |
| ABT-BPA-2500 | 1000, 2000, 3000, 4000, 5000 |
| ABT-BPA-5000 | |

Volume Fixed Pipettes:

| | |
|--------------|-------------|
| ABT-BPF-5 | Volume (μl) |
| Model | 10 |
| ABT-BPF-10 | 20 |
| ABT-BPF-20 | 25 |
| ABT-BPF-25 | 50 |
| ABT-BPF-50 | 100 |
| ABT-BPF-100 | 200 |
| ABT-BPF-200 | 250 |
| ABT-BPF-250 | 500 |
| ABT-BPF-500 | 1000 |
| ABT-BPF-1000 | |

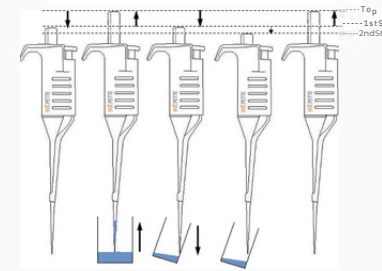
DESCRIPTION



Figure 1 (ABT-BPA-250 shown)

SETTING THE VOLUME

The volume of liquid to be aspirated is set by turning the push button. Turn the push button until the volume line pointing toward the required volume on the volume indicator. ALWAYS adjust the volume within the designated volume range.



GUIDELINES AND PRECAUTIONS

- 1.Liquid should NEVER enter the tip holder. To prevent this: -NEVER lay the pipette on its side with liquid in the tip; -NEVER turn the pipette upside down; -Press and release the push button slowly and smoothly.
- 2.Change the tip in the below cases: -Before aspirating a different liquid, sample or reagent; -If a droplet remains at the end of tip from the previous pipetting.
- 3.Pre-rinse the tip when: -A new tip is used; -You use the same tip with a higher volume; -Pipetting liquids with temperature different to the ambient temperature.
- 4.Water temperature and ambient conditions are stabilized at 20 °C ± 5 °C.
- 5.The pipette will produce accurate and precise measurements of liquid with density, viscosity and vapor pressure similar to water;

PERFORMANCE SPECIFICATIONS

When used in accordance with the instructions in this manual and with our tips, BasicPette will perform to the below specifications.

PIPETTING

- 1.Hold the pipette in one hand. With the other hand, turn the push button until the volume line points toward the desired volume.
- 2.Fit a new disposable tip to the tip holder. Press only enough to make a positive airtight seal, which avoids leaks or poor accuracy.
- PRECAUTIONS: a)The surfaces of lips, especially interior surface, must be clear, smooth and hydrophobic to avoid retention of liquid. Too much retention results in poor accuracy and reproducibility. b)The tip orifice must be the correct size.
- c)Tips are for a single application and they must not be cleaned for reuse.
- 3.Pre-rinse the tip by aspirating the first volume of liquid and then dispensing it back into the same vessel or to waste.
- 4.Press the push button to the FIRST STOP, which corresponds to the set volume of liquid. Holding the pipette vertically, immerse the tip into the sample to a depth of 2 -4 mm. Wait 2 - 3 seconds. Allow the push button to return slowly to the top position. DO NOT let it snap up. Then withdraw the tip from the liquid. You may wipe any droplets away from the outside of the tip using a medical wipe. If you do so, make sure not to touch the tip's orifice.
- 5.Place the tip end against the inside wall of the receiving vessel at an angle of 10 ° to 40 °. Press the push button slowly to the first stop. Wait 1 - 3 seconds. Then press the push button to the second stop, expelling the residual liquid in the tip. Withdraw the pipette from the vessel and release the push button slowly.
- 6.Press the tip ejector button to eject the tip.

Multi-Volume Adjustable Pipettes:

| | | ±% | S.D. |
|----------------|------|------|-------|
| ABT-BPA-25 | 5 | ±7.0 | S:5.0 |
| 5-25 (μl) | 15 | ±4.0 | 0 |
| | 25 | ±2.0 | ±2.5 |
| ABT-BPA-50 | 10 | ±4.0 | ±2.5 |
| 10-50 (μl) | 30 | ±2.0 | S:1.0 |
| | 50 | ±2.0 | 5 |
| ABT-BPA-250 | 50 | ±2.0 | <1.5 |
| 100-250 (μl) | 100 | ±1.5 | ±1.5 |
| | 250 | ±1.5 | S:1.0 |
| | 100 | ±1.5 | 0 |
| ABT-BPA-500 | 300 | ±1.5 | <1.0 |
| 100-500 (μl) | 500 | ±1.2 | S:1.0 |
| | 200 | ±1.5 | ±0.7 |
| ABT-BPA-1000 | 600 | ±1.2 | ±1.0 |
| 200-1000 (μl) | 1000 | ±1.0 | S:0.7 |
| | 500 | ±1.2 | S:0.6 |
| ABT-BPA-2500 | 1500 | ±1.0 | S:0.7 |
| 500-2500 (μl) | 2500 | ±0.8 | S:0.5 |
| | 1000 | ±1.0 | 5 |
| ABT-BPA-5000 | 3000 | ±0.8 | S:0.5 |
| 1000-5000 (μl) | 5000 | ±0.8 | S:0.5 |
| | | | <0.5 |

Volume Fixed Pipettes

| | | ±% | S.D. |
|--------------|------|------|-------|
| ABT-BPF-5 | 5 | ±7.0 | S:5.0 |
| ABT-BPF-10 | 10 | ±4.0 | <2.5 |
| ABT-BPF-20 | 20 | ±2.0 | <1.5 |
| ABT-BPF-25 | 25 | | S:1.0 |
| ABT-BPF-50 | 50 | ±2.0 | 5 |
| ABT-BPF-100 | 100 | ±1.5 | <1.5 |
| ABT-BPF-200 | 200 | ±2.0 | S:1.0 |
| ABT-BPF-250 | 250 | ±1.5 | 0 |
| ABT-BPF-500 | 500 | ±1.2 | ±1.0 |
| ABT-BPF-1000 | 1000 | ±1.0 | <1.0 |
| | | | S:0.7 |

WARRANTY

AccuBioTech Co., Ltd. Warrants the enclosed BASICPETTE against defects in material and manufacturing workmanship under normal use and service for a period of 12 months from the date of purchase. AccuBioTech Co., Ltd. Is not responsible for incidental damage resulting from physical shock, continuous exposure to corrosive reagents or technical handling not in accordance with the instructions described in the user's manual. For further details on this warranty, please contact your local AccuBioTech distributor.



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