



Pipette Tips Instructions

I. Product Application

Pipette tips are disposable laboratory consumables designed to be used in conjunction with micropipettes for the accurate and precise transfer of liquid volumes. They are intended for general laboratory applications, including molecular biology, cell culture, and analytical chemistry.

II. Product Features

1. Available with different packs: bulk, rack, refill. With filter or without filter.
2. Different volume available: 10ul/20ul/100ul/200ul/300ul/ 1000ul/1250ul/5ml/10ml
3. Made of polystyrene (PP) material.
4. DNase & RNase free, human DNA free

III. Instructions for Use

Step 1: Tip Attachment

Select the appropriate size tip for your pipette.

Insert the pipette shaft vertically into the tip.

Apply gentle downward pressure and twist slightly (a quarter turn) to ensure a secure, airtight seal.

Step 2: Pre-wetting (Recommended)

For maximum accuracy, especially with volatile liquids, aspirate and dispense the target liquid 2-3 times before the actual transfer. This saturates the air inside the tip with vapor, preventing evaporation loss during the actual measurement.

Step 3: Aspiration (Drawing Liquid)

Depress the plunger to the first stop.

Immerse the tip vertically into the liquid.

Slowly release the plunger to the resting position to aspirate the liquid. Wait 1 second after the plunger stops moving to ensure the full volume is drawn.

Step 4: Dispensing

Place the tip against the inner wall of the receiving vessel at an angle (10° - 45°).

Slowly depress the plunger to the first stop to dispense the liquid.

Pause for a second, then continue depressing the plunger to the second stop (blowout) to expel any residual liquid.

Withdraw the pipette tip along the vessel wall.

Step 5: Ejection

Press the tip ejector button on the pipette to discard the used tip into an appropriate waste container.

V. Precautions

1. **Aseptic conditions:** All operations must be performed under aseptic conditions to avoid cross-contamination.
2. **Single Use Only:** Pipette tips are designed for single use. Reusing tips can lead to cross-contamination and inaccurate volume delivery.
3. **Chemical Compatibility:** Standard polypropylene tips are resistant to many chemicals but may degrade with strong organic solvents (e.g., chloroform, phenol). Use chemically resistant tips if handling aggressive solvents.