

Introduction to Micropipetting



Learning Objectives

- Identify the different parts of the micropipette
- Properly use a micropipette

What is Micropipetting?



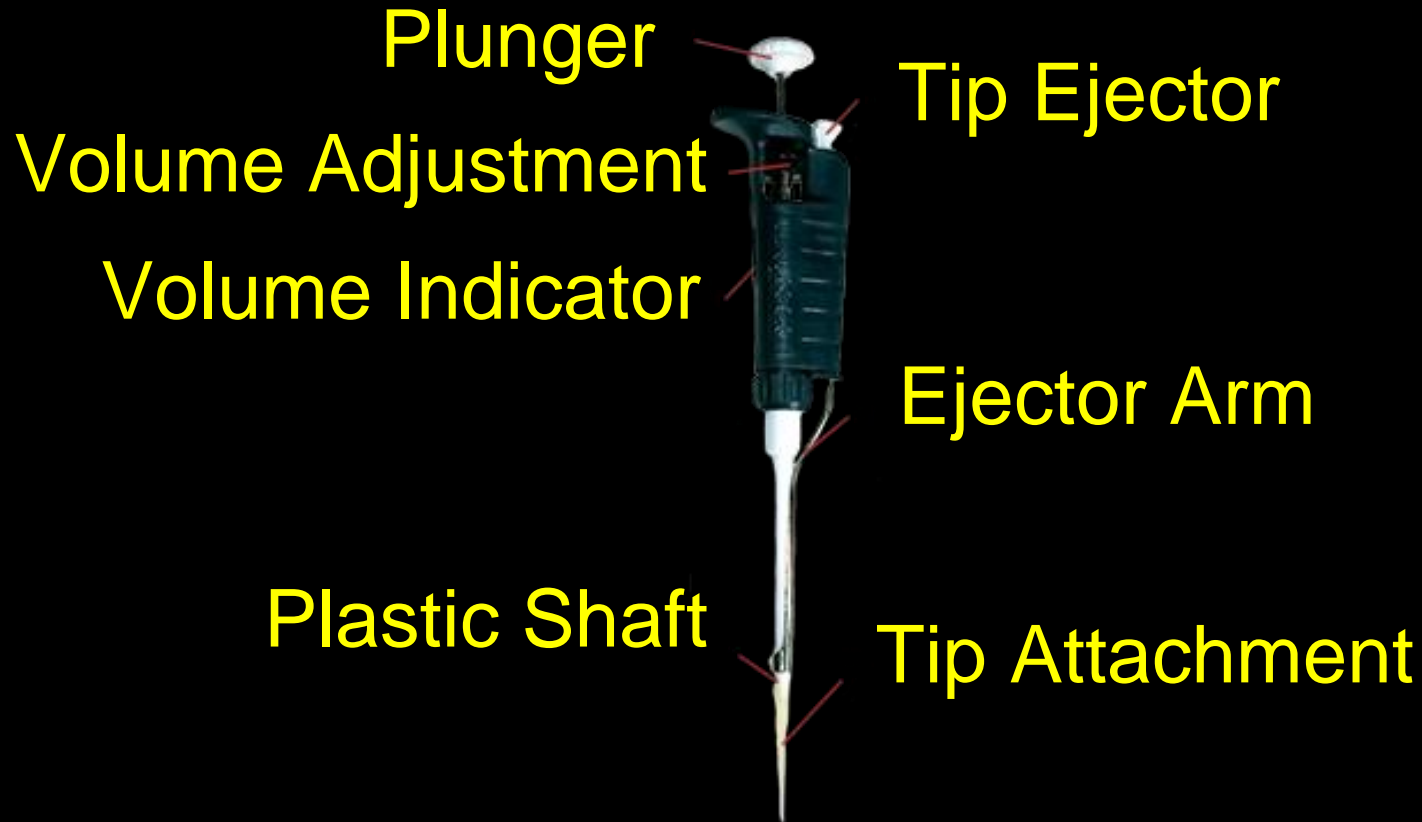
Measuring and transferring small volumes of liquids.

What is a Micropipette?



A laboratory tool used to transport a measured amount of liquid.

Parts of a Micropipette



Setting the Volume



Filling and Dispensing

The diagram illustrates the forward pipetting technique. On the left, a hand holds a pipette over a beaker, dispensing liquid. On the right, a close-up shows the hand operating the pipette button, with three points marked: 'Starting point' at the top, 'First point' in the middle, and 'Second point' at the bottom. A blue box at the bottom contains the text: 'Step 3: Take the pipette to the receiving vessel and dispense the liquid by gently pressing the operating button to the first point. After a second, apply more pressure on the first point and press the button to the second point.' The Accumax logo and 'Accuracy at Maximum' are in the top left. A navigation bar with icons is at the bottom right.

Accumax
Accuracy at Maximum

Pipetting

Pipetting techniques

Starting point

First point

Second point

Forward pipetting

Step 3: Take the pipette to the receiving vessel and dispense the liquid by gently pressing the operating button to the first point. After a second, apply more pressure on the first point and press the button to the second point.

YouTube

Using a Micropipette



Steps for Micropipetting

1. Twist dial to desired volume
2. Add disposable pipette tip
3. Press plunger to first stop
4. To retrieve liquid, slowly release plunger
5. To transfer liquid, press plunger past first stop to second stop
6. Keep plunger down as you remove pipette
7. Eject tip