

How to Use a Micropipette

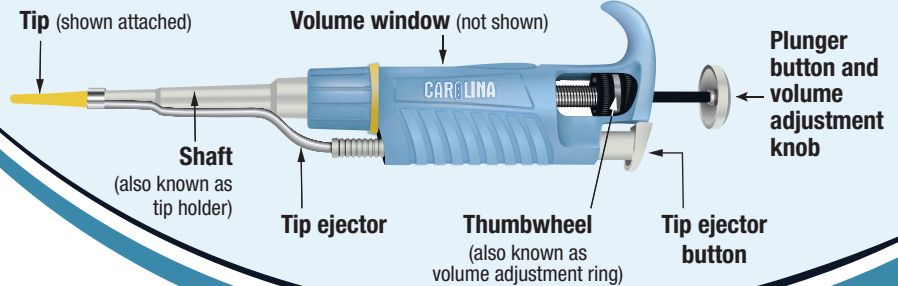


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Micropipette Structure & Function

Micropipettes transfer small volumes of liquids in microliters (μL), which are 1/1000th of a milliliter (mL)!

The name of a micropipette represents the maximum volume it can transfer. For example, a P20 can transfer up to 20 μL and a P1000 can transfer up to 1000 μL .

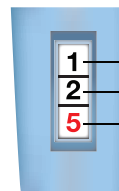


► How to set volume

Turn the micropipette plunger button or thumbwheel to adjust the volume shown on the volume window.



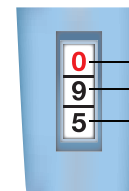
► Read the volume window from top to bottom



How to read a P20

1 Tens place
2 Ones place
5 Tenths place

The pictured pipette reads 12.5 μL .

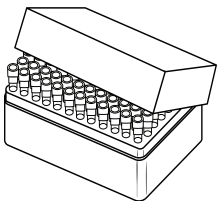


How to read a P1000

0 Thousands place
9 Hundreds place
5 Tens place

The pictured pipette reads 950 μL .

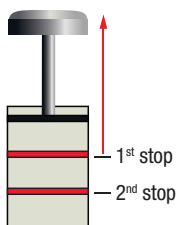
Ready to pipette?



Attach a tip.

~~P20 > 20 μL~~
~~P1000 > 1000 μL~~

Never set beyond maximum volume.

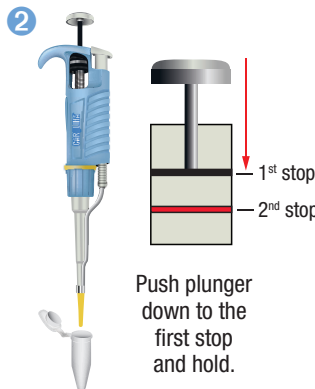


The plunger button has 2 stops. Know which stop to use and when.

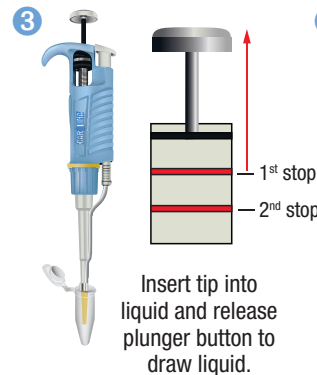
Drawing (aspirating) liquid:



Set desired volume and attach a tip.



Push plunger down to the first stop and hold.

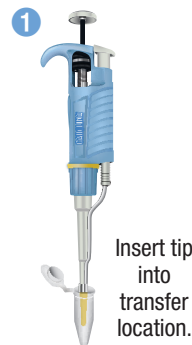


Insert tip into liquid and release plunger button to draw liquid.

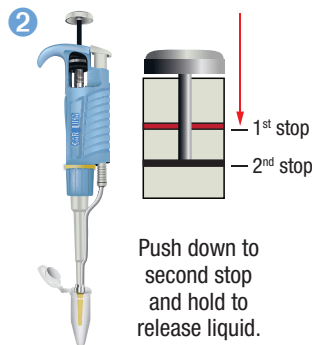


Remove pipette. You are now ready to transfer liquid.

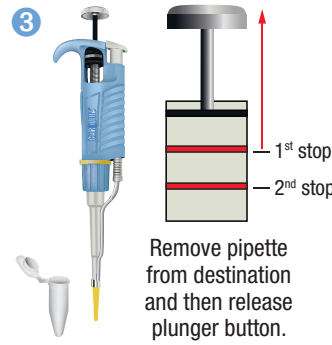
Releasing (dispensing) liquid:



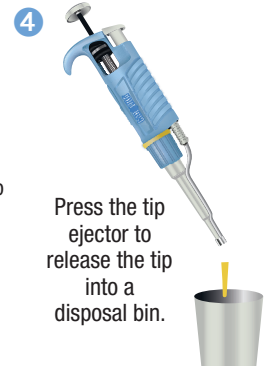
Insert tip into transfer location.



Push down to second stop and hold to release liquid.



Remove pipette from destination and then release plunger button.

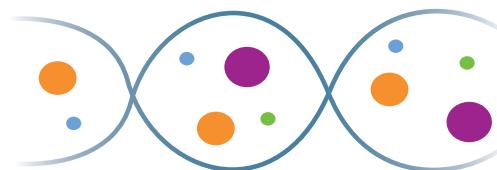


Press the tip ejector to release the tip into a disposal bin.

Practice your skills

Fill each of the bubbles (right) with the labeled volumes. Correct pipetting will create a droplet that is approximately the same size as the bubbles. (Note: Place a transparency over this handout to perform the activity.)

● 2 μL ● 5 μL ● 15 μL ● 20 μL



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