

11

TIPS AND TRICKS

PIPETTING TECHNIQUES

11 helpful tips and tricks to make pipetting easier.

Wet your pipette before you begin.

Get your pipette ready by aspirating then expelling a sample liquid a minimum of 3 times before aspirating a sample for delivery.



3x



1

Asperate at the correct depth

Before aspirating, immerse the tip adequately below the meniscus.

Large volume pipettes (1-5 mL) should be immersed to 5-6 mm, while smaller volume pipettes should be immersed to 2-3 mm.



2

Pause one second after asperating



After asperating the sample, leave the tip still in the liquid for approximately 1 second.

3



Keep the Pipette verticle

Always keep pipette verticle during aspiration. Be careful not to touch the sides of the container.

4

Clean tip before proceeding with sample dispensing



5



Dispose residual sample material after dispensing sample

Touch the side of the container with the tip and dispense any residual sample material.

6

Ensure your plunger pressure and speed are consistent.

When using the plunger, ensure you are pressing it down and releasing it smoothly and consistently.

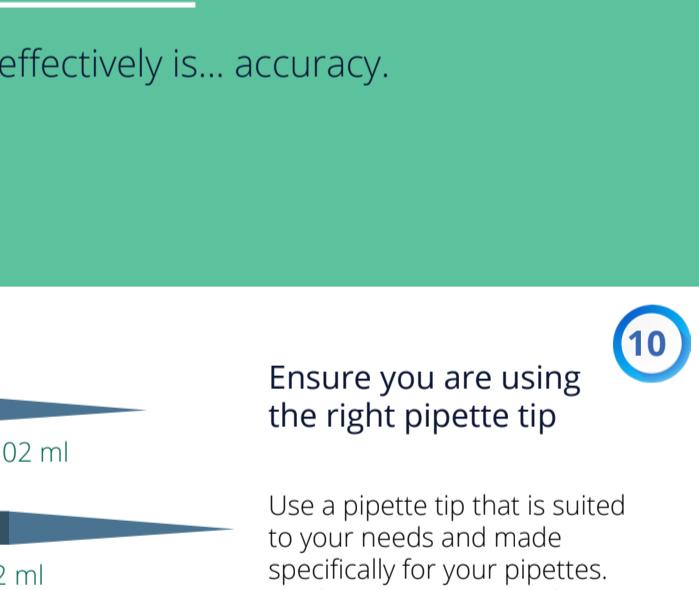
8



Select forward mode dispensing

Set the pipette to standard or forward mode and ensure it is not set on reverse mode.

7



8

Prevent heat transfer to the pipette

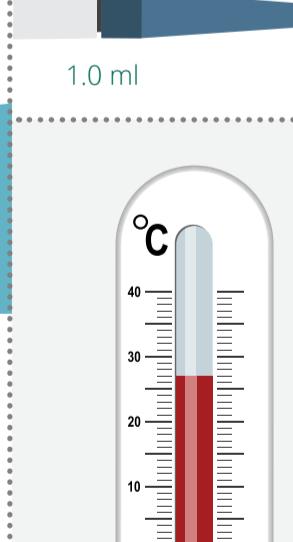
Always hold the pipette in a loose grip. When not in use, put it down or place on a pipette stand.



Wearing gloves will help to reduce the transfer of body heat to the pipette.

9

Ensure you are using the right pipette tip



10

Allow for ambient temperature Equilibrium



11

Before you proceed with pipetting, ensure liquids and equipment have reached equilibrium at an ambient temperature.

Finding the appropriate pipette.

Pipette with a volume range closest to the volume you plan to aspirate and dispense. Visit southernbiological.com to see our full pipette product range. Use the codes below to find the one that's right for you.

Volume	Code	Price
0.5-10 µl	G40.685	\$105.00
2-20 µl	G40.681	\$105.00
5-50 µl	G40.682	\$105.00
20-200 µl	G40.683	\$105.00
100-1000 µl	G40.686	\$105.00

