

Pipette exercise

with a micropipette

Main parts of a micropipette

1. Plunger
2. Setting ring
3. Release button
4. Pipette tip



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Attention to prevent damage

- Single use of the pipette tip so that the different liquids do not mix
 - Don't turn the pipette upside-down
- Don't turn the setting ring (2.) over the volume range
- It has two stops/two points of resistance





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How to use a micropipette

- Set the desired volume by turning the setting ring (2.).
 - You don't need to adjust the volume during the experiment.
- Connect a sterile tip (4.) from the box and close the box immediately to keep the tips sterile





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Uptake of liquid

- Press down the plunger (1.) to the first stop
- Dip the tip in the fluid vertically
- Slowly release the plunger. (1.)
- When you take the tip (4) out of the tube, you have to wipe the tip off the side of the tube.

Make sure there are no bubbles in the tip!





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Release of liquid

- Lean the tip (4.) on the side of the tube
- Press down the plunger (1.) to the second stop
- Do not release plunger (1.) and take the tip (4.) out of the liquid
- Press the release button (3.) to take off the tip (4.) and put it into the waste box



Exercise to avoid problems

Homogenizing a sample:

- Homogenize by snipping
- Homogenize the liquid by pumping it in and out of the micropipette
- Get liquid to the bottom of the tube:
 - Tap the tip of the tube gently on the table. Now the drops should fall into the tip of the tube.

Pipetting exercise

- Take 3x 15 μ l water from the beaker and put it in the tube
- Collect the water at the bottom
- Take 3x15 μ l and put it back into the second tube.
- When tip is full after the third time, you have worked correctly.