

Pipette exercise

With the micropipette

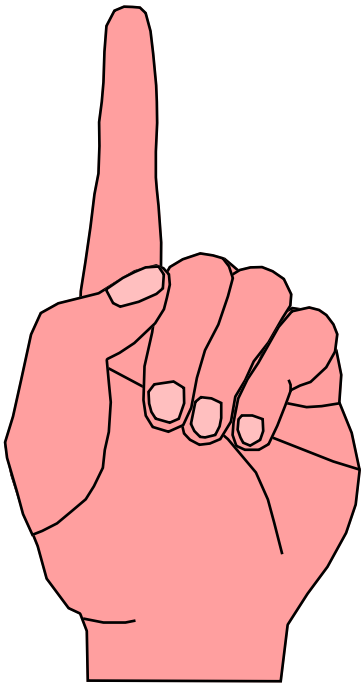


Main parts of a micropipette

- 1: Hub
- 2: Setting ring
- 3: Release button
- 4: Pipette tip



How to use a micropipette



Attention:

- Blue tips to blue pipettes and yellow tips to yellow pipettes!
- Use one tip only one time!
- Don't over turn the setting ring over the volume range
- Don't turn the pipette overhead

How to use a micropipette

- Set the wished volume by turning the settingring (2).
- Connect a sterile tip (4) from the tip box and close the box immediately to keep the tips sterile



How to use a micropipette

Uptake of liquid

- Press down the hub (1) to the first stop
- Dip the tip vertical in the fluid
- Slowly glide back the hub (1)
- By taking off the pipette tip (4) you have to wipe it off on the tube wall

No bubbles should be in the tip!



How to use a micropipette

Release of the liquid

- Lean the tip (4) on the tube wall
- Press down the hub (1) to the **second stop**
- Hold the hub (1) in the **second stop** down and take the tip (4) out of the liquid (4)
- Press the release button (3) to throw off the tip (4) in the waste box



Exercise to prevent usual experiment problems

Homogenizing a sample

Homogenize all drops to one liquid

- by snipping
- tapping on the table

Exercise

Exercise: **Pipette**

yellow pipette:

You have to pipette 20 μ l
3x of the homogenized
clear fluid from the
white tube into the
yellow tube and back

blue pipette:

You have to pipette
200 μ l 3x of the
homogenized blue fluid
from the white tube into
the green tube and back

Goal: All liquid from the white tube must move to the green tube and backwards.