

## Pipetting Protocol

**Types of Pipettes** – Following Images show the types of Pipettes available in the Lab



**Fig 1.** 0.5-10 uL Pipette – Eppendorf Brand



**Fig 2.** 20-200 ul Pipette – Fisherbrand



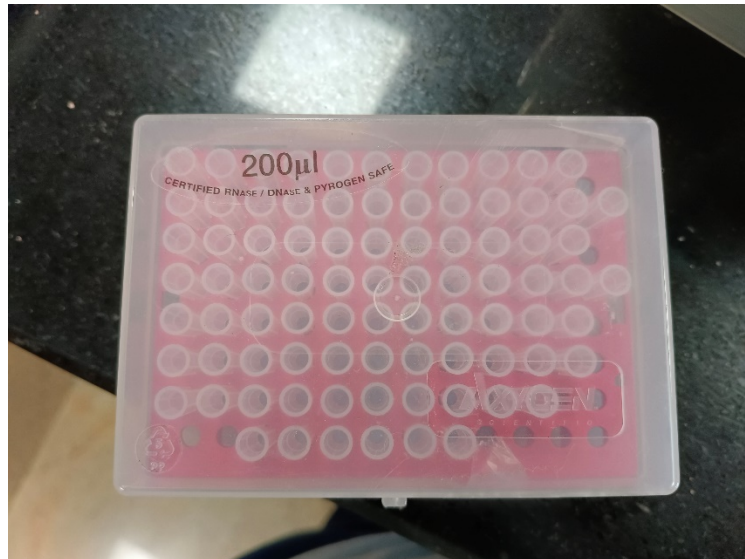
**Fig 3.** 100-1000 uL pipette - Thermo

### Handling Procedure

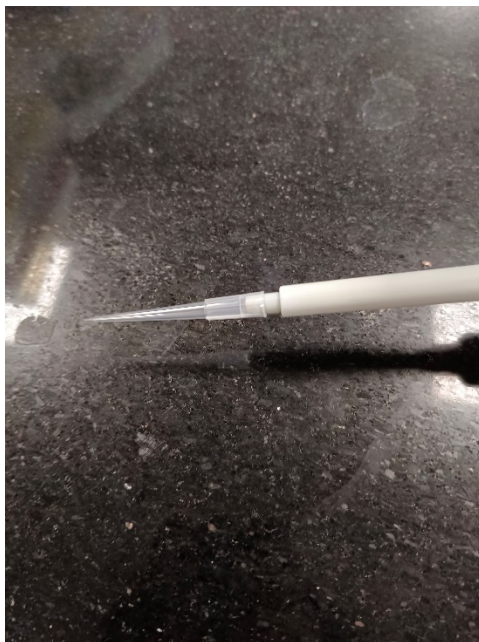
1. First you insert the pipette tip of the definite size.  
Sizes available – See the images below



**Fig 4.** 1000uL Pipette Tip

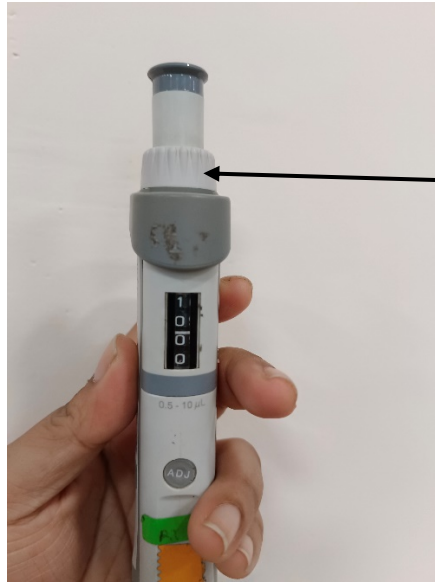


**Fig 5.** 200uL Pipette Tip – Useful for 10-100uL, 2-20uL as well as 20-200uL Pipettes



**Fig 6 and 7.** Pipette tips

2. Setting the parameters – Set the desired volume by rotating the dials



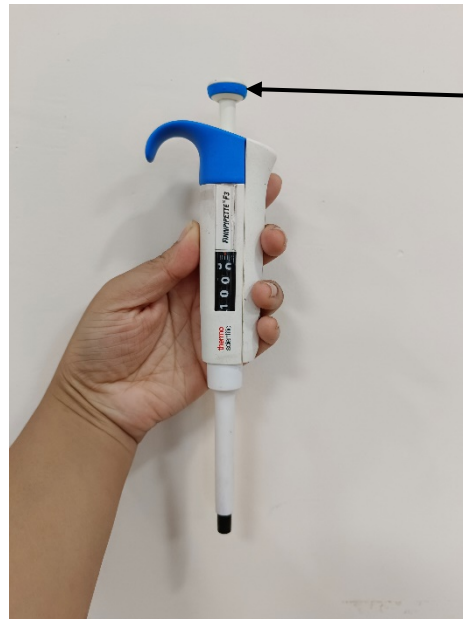
Rotating Dial for  
Eppendorf Brand

**Fig 8.**



Rotating Dial for  
Fisherbrand

**Fig 9.**

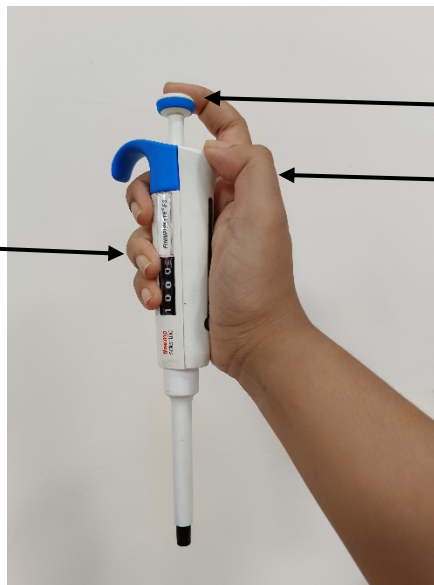


Rotating Dial for Thermo

**Fig 10.**

***Note** – Rotate the dials slowly so that the spring inside it does not break.*

3. Holding the pipette – The image shows the holding position

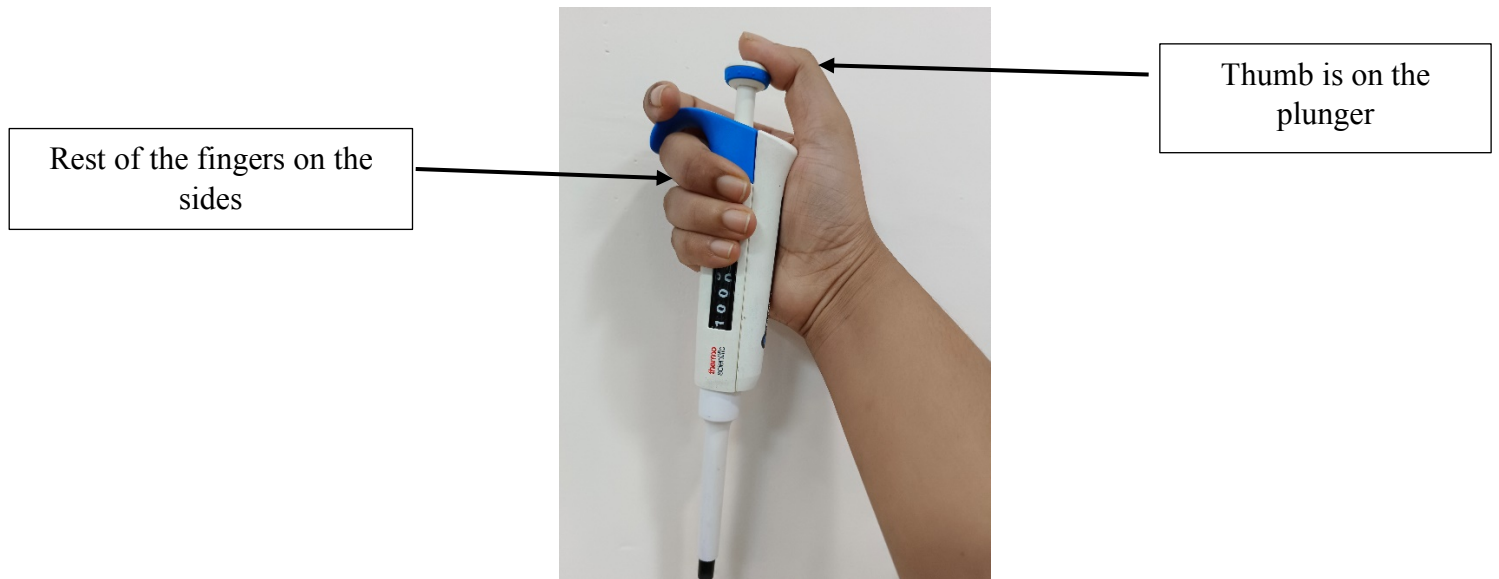


Index Finger is on the Plunger

Thumb is on the side

Rest of the fingers on the sides

**Fig 11.**



**Fig 12.**



**Fig 13.** Similarly for left hand using index finger

*Note – Evolutionary your index finger has more controlling power than the thumb. So, for less error, it is better to control the plunger with your index finger. You will feel the pressure of the plunger better while pushing.*

4. Push the plunger until the first stop.
5. Pipette out the desired solution.
6. Then release it using the second stop by hard pressing the plunger.
7. Then rotate the dials to the highest release i.e., for 10 uL the dial should be at 100, for 200 uL the dial should be at 200, and for 1000 uL the dial should be at 1000.