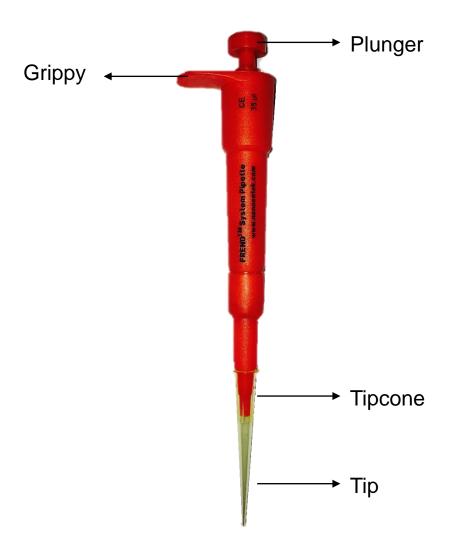


Quick Operation Manual



NanoEnTekInc.

FREND mini-pipette



General Description

This fixed-volume micropipette is a medical device for dispensing fixed volume of liquid.

General Setting and Operation

- ✓ Put a compatible tip to the 'tip cone'.
- ✓ The pipette is now ready for pipetting.
- ✓ It is highly recommended to understand and practice the 'plunger' operation which has two stops.
- ✓ For the first stop operation, depress the 'plunger' gently until it stops by itself (never depress the 'plunger' with jerk). Give a pause at this stage and then depress the 'plunger' further down applying little force to achieve the second stop.

***Tips:** Press plunger slowly. You may feel the first stop better. Continuous practice will improve your pipetting skill. You may slow down a speed of pipetting for better accuracy.

Ready Position

First Stop

Second Stop







Reverse Pipetting Technique

- 1. Depress the 'plunger' all the way to the second stop, dip the tip in the solution.
- 2. Release the 'plunger' slowly to all the way up.
- 3. Depress the 'plunger' to the first stop. Required amount of liquid is dispensed.
- 4. Discard the liquid remaining in the tip.



Second Stage



Ready Position



First Stage



Release sample from pipette to tube

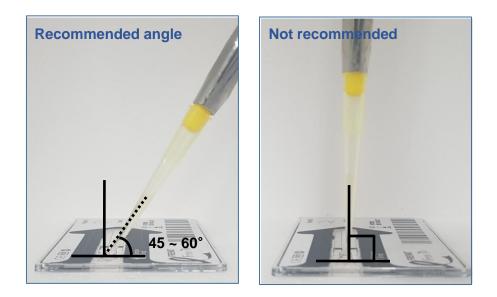
1. When releasing all of sample from pipette, end of tip touches on the tube inside wall.



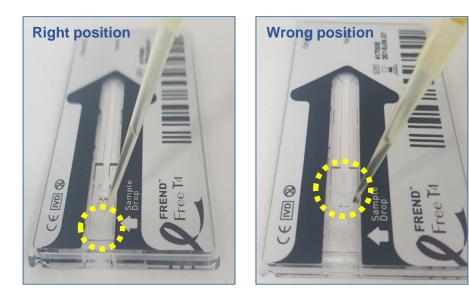
2. Before releasing your thumb from the plunger, remove pipette and tip from the tube

Sample drops on Cartridge

1. Recommended Position of Pipette



2. Find right inlet for sample loading.



Preparations

Free T4





Testosterone

35uL X 2



From Sample

- 1. Depress the 'plunger' to the second stop, dip the tip in the sample.
- 2. Release the plunger all the way up
- 3. Gently depress the plunger to the first stop into the pretreatment tube.
- 4. Repeat 1 more time

From Sample

- 1. Depress the 'plunger' to the second stop, dip the tip in the sample.
- 2. Release the plunger all the way up
- 3. Gently depress the plunger to the first stop into the pretreatment tube.
- 4. Repeat 1 more time

Vitamin D



From Sample

- 1. Depress the 'plunger' to the second stop, dip the tip in the sample.
- 2. Release the plunger all the way up
- 3. Gently depress the plunger to the first stop into the dilution tube.
- 4. Discard the tip.

From Dilution tube (with a new tip)

- 1. Depress the 'plunger' to the second stop, dip the tip in the dilution tube.
- 2. Release the plunger all the way up
- 3. Gently depress the plunger to the first stop into the pretreatment tube.
- 4. Repeat 1 more time

FREND™ Free T4

Quick operation manual



FREND™ Testosterone

Quick operation manual



FREND™ Vitamin D

Quick operation manual

