

# Pipette-60 Set

## Configuration and Principle

### 1. Composition

- |                  |                 |
|------------------|-----------------|
| 1) Pipette-60    | 1 pipette       |
| 2) Filtered Tip* | 4 X 96 tips/box |
- \* Do not reuse.

### Appearances



### 2. Size, weight, and materials

#### Pipette-60:

35 mm in diameter x 192 mm in length, approximately 26 grams, made of ABS resin

#### Filtered tips:

7.5 mm in diameter x 75 mm in length, approximately 1.0 gram/tip, made of PP resin

### 3. Operation principle

You can aspirate, dispense, and blow out liquid and eject tips by pressing a push-button of the pipette.

## Intended use

Pipette-60 is a micropipette equipped with a tip-ejector operated by the push-button. Basically, a pipetting volume is determined by the migration length of the button pushed down from the starting (top) position. All of the pipetting functions (aspirating, dispensing, and blowing-out liquid and ejecting of tips) can be operated by pressing the push-button.

## Specifications

Aspiration performance: 60.0  $\mu$ L  $\pm$  4.0%

#### Note:

- Data obtained when the distilled water was used at 20-25°C.
- Calibration tip, whose diameter at the end was narrow, was used.

## Storage and Duration of use

### 1. Storage

Store the Pipette-60 Set at 1-30°C.

### 2. Duration of use

Approximately 500 times of aspirating and dispensing

#### Note:

This data is based on the self-certification data of our company and this was tested under maintenance conditions predefined in the protocol.

## Precautions for use

### 1. General cautions

- 1) Read the instruction carefully before use.
- 2) In the initial use the passage of the button at the first step may not be smooth.
- 3) Refer to the manual for detailed handling of individual samples.
- 4) Approximately 500 times of aspirating and dispensing can be performed by the pipette-60, but further operation is not guaranteed.
- 5) Do not reuse tips.
- 6) Never hold the pipette horizontally when liquid is aspirated in the tip (e.g., placing the pipette on the bench with the tip containing liquid). Liquid may come into the pipette, which damages the pipette and cause contamination.

- 7) Do not use tips other than those distributed as accessories. Usage of tips from other companies may result in a loss of precision.

## Operation procedure and Operating conditions

### 1. Operation procedure

#### 1) Handling of the push-button (in 3 steps)

- (1) Push down the button from the top to the first step (and/or gently returning it to the top): aspirating and dispensing samples are performed by this stroke.
- (2) Push down the button further from the first step to the second step: residual liquid in the tip is discharged by this stroke (blowing-out).
- (3) Push down the button further from the second step to the final step: the tip is ejected by this stroke.

**Note: In the initial use the passage of the button at the first step may not be smooth.**

#### 2) Placement of the tip onto Pipette-60

Place tightly the accessory filtered tip onto the pipette.

Upon placement of the tip, hold the pipette with its end inserted into the tip vertically to the tip tray. Then press it firmly onto the tray to place the tip tightly.

**Note: Never aspirate liquid directly into the pipette without placing the tip.**

#### 3) Aspiration

- Push down the button to the first step.
- Keep the pipette almost vertical and immerse approximately 2 mm of the distal end of tip in the liquid.
- Gently return the push-button to the top.

**Note: Do not rapidly return the push-button to the top.**

- Confirm that the sample is aspirated up to the 60- $\mu$ L line of tip (see the arrow in the left figure).

**Note: Sample with high viscosity may not reach the 60- $\mu$ L line.**

#### 4) Dispensing the liquid

- Press down slowly the push-button to the first step and wait for 1-2 seconds in this position.
- Further press down the push-button to the second step and discharge the residual liquid completely.

#### 5) Disposal of the pipette and tips

Discard the pipette and tips after use as infectious wastes in accordance to the local regulation.

### 2. Operating ambient conditions

Ambient temperature: 15-30°C.

Relative humidity: 20-80%.

## Precautions in maintenance

### 1. Conditions in maintenance

#### <Cleaning of Pipette-60>

- 1) Wipe with a tightly-squeezed cloth which was immersed in the distilled water or in the aqueous solution of neutral detergent at a low concentration.
- 2) Cleaning papers wet with alcohol or 0.5% sodium hypochlorite solution can be also used.

### 2. Cautions and prohibitions in maintenance

- 1) Do not autoclave or expose products to the UV light for sterilization. Autoclaving or exposure to the UV light will deteriorate the products, which may leads to a loss of precision and breaking down of the products.
- 2) Do not immerse the products in alcohol or 0.5% sodium hypochlorite solution. These solutions come into the pipette, which may leads to a loss of precision and breaking down of the products.



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