

## Electronic Repeating Pipette Quick Reference Guide

### Product No. 595024

#### 1. General Description

For easy reference for the operation of the Electronic Repeating Pipette.

#### 2. Detailed/Additional Instructions

For detailed instructions and information on operation, safety, limitations, exclusions, and warranty, please see the manufacturer's operating manual provided with the pipette.

#### 3. Materials Required

Electronic Repeating Pipette  
Disposable syringe tips

#### 4. Notes and Precautions

Disposable syringe tips are available in both encoded and non-encoded formats. Encoded tips allow the electronic repeating pipette to determine the capacity of the tip inserted. Use of non-encoded tips requires the user to select the correct capacity immediately after insertion.

- Appropriate tip size is determined by desired dispensing volume. Recommended tip sizes for various dispensing volumes are listed below:

Dispensing Volume	Recommended Capacity Tip
25 µL – 50 µL	2.5 mL
50 µL – 150 µL	5.0 mL
0.25 mL – 1.0 mL	12.5 mL
1.0 mL or greater	50.0 mL*

\*adaptor required (supplied with tips by tip manufacturer)

- Do not use the same disposable tip for multiple reagents. Use of the same tip with multiple reagents will result in contamination of the reagents and the microtiter plate or test tubes used in the assay. If a tip, which had previously been used for one reagent, is inserted into another reagent, immediately discard the tip and the reagent it was inserted into. For example, if the tip used for the antibody solution is inadvertently inserted into the conjugate solution, both the tip and the conjugate solution should be discarded and a new tip and new bottle of conjugate solution should be used to complete the assay. Use of reagents or tips which have been cross-contaminated in this way will adversely affect kit performance and may produce inaccurate results.
- Tips can be re-used for multiple assays **for the same reagent only**. If re-using tips, each tip should be clearly labeled with the solution it is used with. Tips should be stored so that the portion of the tip, which comes into contact with the solution, does not come into contact with other tips or any laboratory surfaces, which may cause contamination.
- Washing previously used tips for re-use with other reagents is not recommended, due to the high likelihood of tips and reagents becoming contaminated and adversely affecting assay performance.
- The repeating pipette display will automatically turn off after 3 minutes of inactivity. To turn off the display manually, or to turn the display on, press ENTER.

#### 5. Procedure

To dispense antibody, conjugate, color, or stop solutions using the electronic repeating pipette:

- 5.1 Slide the appropriate size disposable syringe tip laterally into back of the repeating pipette.

- 5.2 Push the locking lever into the down position over the base of the tip (a distinct clicking sound will be heard as the lever is moved into the correct position).
- 5.3 If using an encoded tip, the tip size will be automatically determined and shown briefly on the display. If using a non-encoded tip, the capacity of the last tip used will be shown on the display (flashing). Use the up or down buttons located below the display to scroll to the correct tip size. Once the correct tip size is shown, press ENTER.
- 5.4 The volume to be dispensed will then be displayed. To change the dispensing volume, press MENU ("VOL" will appear below the numerical volume), and then use the up or down buttons located below the display to scroll to the correct dispensing volume, then press ENTER. The display will then show the selected dispensing volume, "000" (indicating that no solution is in the tip), and "▲" (indicating that the pipette is ready to aspirate liquid into the tip).

*Note: the aspirate "▲" and dispense "▼" indicators are shaded in three segments. This indicates the speed with which the pipette will aspirate or dispense: one shaded segment indicates slow aspirating and dispensing, two shaded segments indicates moderate aspirating and dispensing, and three shaded segments (fully shaded triangle) indicates fastest aspirating and dispensing. To change aspirating or dispensing speeds, press and hold MENU until "SPE" is displayed, then use the up or down buttons located below the display to scroll to the desired aspirating speed and press ENTER, then use the up or down buttons located below the display to scroll to the desired dispensing speed and press ENTER.*

- 5.5 Place the tip into the solution to be dispensed and press the button on the back of the repeating pipette once. The solution will then be drawn into the tip until tip capacity is reached or until the button on the back of the pipette is pressed a second time. The dispense "▼" icon will then be displayed below the number of aliquots which are contained in the tip for dispensing.

*Note: if the tip fills to capacity, a small amount of solution will be automatically dispensed. This will not occur if the button on the back of the pipette is pressed to interrupt filling.*

- 5.6 To dispense the desired volume of solution, press the button on the back of the pipette once for each aliquot required.

*Note: dispensing two to three aliquots of the solution back into the bottle before adding reagents in an assay is highly recommended, as this will allow any air, which may have been drawn into the tip to be cleared from the tip and ensure accurate volumes of the solution are pipetted into the assay.*

- 5.7 When all of the solution has been dispensed from the tip (the step counter will display "000"), place the tip into the solution and press the button on the back of the pipette twice to refill the tip and continue dispensing. If finished dispensing, or to empty the tip at any time, place the tip into the solution container (not in contact with the solution) and press the down button located below the display (the display will show "E" and the dispense icon "▼" will flash). Press the button on the back of the pipette to fully empty the tip.

*Note: the tip must be completely empty before removal. Attempting to remove the tip when it is not in the lowest (completely empty) position may damage the repeating pipette.*

- 5.8 Remove the completely empty tip by sliding the locking lever into the up position (a distinct clicking sound will be heard as the lever is moved into the correct position), then slide the tip out of the pipette.

*Note: If the tip is not fully emptied when the lever is moved into the up position, the pipette may sound an alarm (beeping three times) and an error will be shown on the display. If the alarm sounds, **do not attempt to remove the tip**. Move the lever back into the down position, place the tip into the solution container (not in contact with the solution), press ENTER, then press the button on the back of the pipette to completely empty the tip before removing.*

5.9 Discard or store the tip for later use (see Notes and Precautions, above, if storing for later use).

**6. For ordering or technical assistance contact:**

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