AUTOMATING PCR PREP WITH FLOWBOT® ONE

With many advanced features to optimize liquid handling in a PCR protocol, flowbot® ONE enables effective, yet intuitive, lab processes. Here's why it's a preferred choice for the different steps in PCR preparation.

Reagent dispensing

In reagent dispensing, the high accuracy of flowbot® ONE ensures consistent and precise volumes across multiple samples, giving correct results and highly reproducible experiments with minimum effort. To keep temperature sensitive reagents safe and cool, flowbot ONE also has an integrated coldplate.

Master mix preparation

Dispensing the master mixes evenly across a PCR 96/384 well plate is optimized with the flowbot® ONE feature 'contact aspiration'.

Serial dilutions & Normalization

By normalizing or diluting samples, you can ensure that each reaction starts with a known and consistent amount of template DNA or RNA. To optimize these processes, the flowbot® ONE carries a pre-programmed template and features like reusing tips, prewetting and mixing to improve the concentration accuracy and template programs.

Sample preparation

Sample preparation on flowbot® ONE is made as secure and accurate as possible with features like automatic liquid level detection, prewetting & mixing and bottom touch.

Key Software Features

Contact aspiration
The pipette tip touches the bottom of your source during aspiration, allowing you to utilize the entire volume. This is great if you are working with very small volumes of liquid.

Liquid level detection
The flowbot® ONE can detect the liquid levels itself. That frees you from making the calculations and programming them in the software, and functions as a quality control.

Prewetting and mixing
This feature allows you to mix liquid in both the source and the target in multiple heights. That's an effective way of homogenizing the solutions both before and after dispensing them into the master mix.

Bottom touch
In bottom touch, the pipette tip touches the bottom of your target when dispensing, preventing viscous reagents from sticking to the tip and causing inaccuracies in the sample.

Reuse tips
Reduce the amount of used plastic/resources.

Template programs
For normalization and dilution of samples. All you have to do is add your steps, volumes and concentrations. Easily adjust programs with the no code drag-and-drop protocol designer.

Book your free demo today to see what flowbot® ONE can do for you: **Flow-robotics.com/book-a-demo**

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