Microlab 600® Forensic Applications

When Time and Accuracy Matter, Use the Microlab 600

Faster Sample Preparation: Stop messing around with pipettes to prepare your samples. Use the Microlab 600 to improve your process flow when preparing samples for analysis.

"In our experience the sample preparation time is about twice as fast as using manual pipettes." — Houston Forensics Science Center

Eliminate Mistakes, Lock Down Methods

Pipettes can be problematic in any laboratory setting. Common problems include: significant variation between users, inconsistencies with different solution types, and performance variation at different elevations. These problems are eliminated with the Microlab 600. The Microlab 600 Advanced Version has features that will allow you to lock down your process, so even when under oath, you can be confident in your methodology.

Instructional Text

The instructional text feature can be found in the Custom Methods setting. This allows the user to see on-screen instructions for what will happen in each step. This way if an operator gets distracted they can simply read the screen and know what they are supposed to be doing, reducing error occurrences in their method.

User Accounts

The Microlab 600 allows laboratories to create user accounts. Each user account may be set to specific user capabilities. One user may be set as the administrator and is able to write methods, edit methods, run methods, and set other user permissions. Lab managers with less experienced employees can set user permissions for editing methods. Inexperienced users can be locked out of method editing.

Disposable Tip Hand Probe (DTHP)

If the sample preparation uses biological samples, such as bacteria or DNA, a disposable tip hand probe is the best instrument to prevent sample cross-contamination. This probe uses Hamilton Clicksure® tips and can aspirate sample volumes from 0.5–1,000 µL.
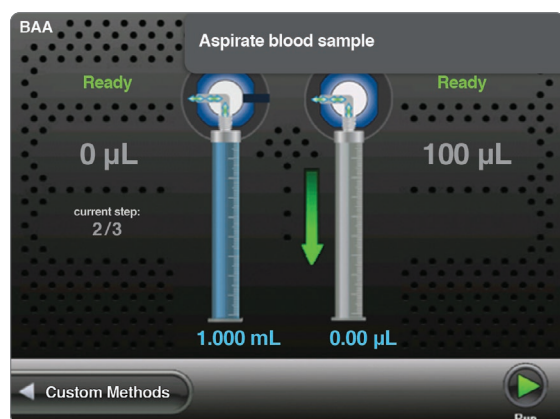

Figure 1: Instructional text

Log Files

Once user accounts are established, the log files can be turned on. This will keep track of everything that is done with the instrument and will automatically generate a log file. This log file includes user information, program information, configuration of the pump, etc. The log files may then be printed directly from the instrument using our Printer Kit (Cat. No. 89209-582) which directly connects to the instrument.

Barcode Ready

The Microlab 600 has the ability to work with a 2D barcode reader. This barcode reader can be used to scan a sample ID, rather than manually input information. If log files are turned on, then this information will also be recorded in the log file.

Figure 2: Printer Kit; Cat. No. 89209-582.

Reduced User-to-User Variation

The Microlab 600 is a semi-automated system and the parts of the process that are prone to errors are automated; however, the instrument still requires inputs to advance the method. In addition, methods can be saved as favorites and different users have the ability to access these files to run the program. The instrument performs all the work so it is not necessary to use a special technique. Once programmed, it can be handed off to a user after a brief training and they will get the same results as a more seasoned user. The instrument has an encoder that ensures the positioning of the syringe drive mechanism; this system guarantees a certainty level in liquid delivery previously not seen in forensic laboratories. Because of this, there will be reduced variations between users, as well or better than 99% accuracy.

Ordering Information

VWR Cat. No.	Description
89174-626	Advanced Microlab 600 Dual Syringe Diluter
89498-984	Advanced Microlab 600 DTHP Diluter
89209-582	Microlab Printer Kit
89498-988	Microlab 600 DTHP[1]
89174-710	Microlab 600 Upgrade Kit[2]

[1] This part may only be used with an Advanced instrument.
[2] This should only be purchased if working with an instrument with a basic controller.

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