

## Automation of Promega's Differex™ & DNA IQ™ System on the VERSA 1100 Gene Workstation

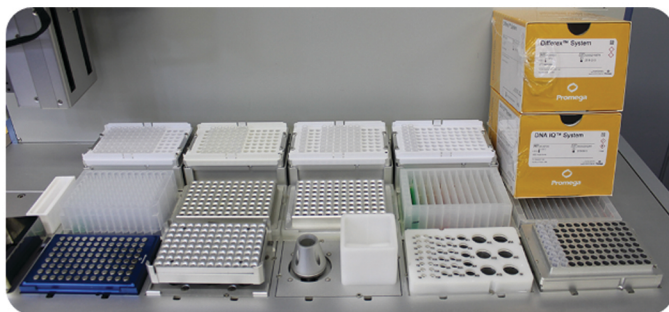
Differential digestion is used in many crime labs to separate sperm DNA and non-sperm DNA, including epithelial DNA of female victim from sexual assault cases. The unique power of DNA evidence compared to other forensic evidence has led to a huge increase in demand of analysing sexual assault kits (SAK), causing sample backlogs.

Automating Differex™ System (Promega Corporation) on our VERSA 1100 Gene provides a simple and accurate method for separating male and female fractions of a sample, making it possible to analyze samples more quickly and efficiently while reducing human errors. VERSA's proprietary modules such as ReagentDrop and 96-Tip Aspirator will streamline the protocol, eliminate sample cross-contamination, and reduce tip waste.

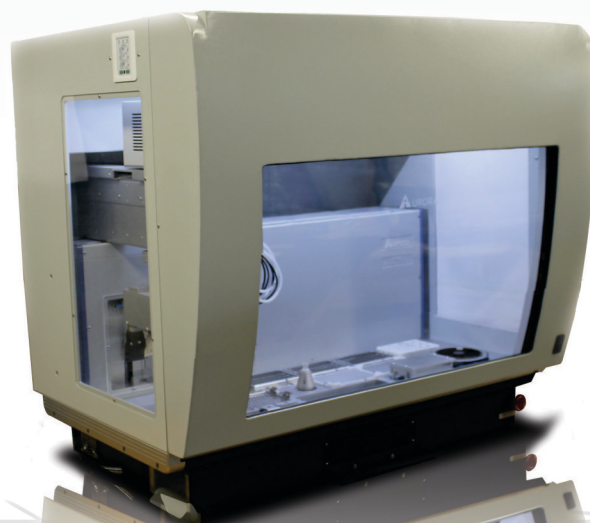
Separated DNA can be extracted using DNA IQ™ System (Promega Corporation) for downstream short tandem repeat (STR) analysis. VERSA 1100 Gene can also automate DNA IQ™ System with the same configuration minimizing hands-on time and error rate.

### FEATURES AND BENEFITS

- Magnetic Bead Vortex – ensures homogeneous distribution of beads
- ReagentDrop – dispenses bulk reagents such as water and washing buffer without the use of tips
- 96-Tip Aspirator – removes wastes from entire plate at once without the use of tips
- Heater/Shaker – incubate sample up to 95 degrees and re-suspend beads with one module
- Plate Cooler – keeps temperature sensitive reagents in 4 degrees
- Plate Gripper – transfers sample plates between magnetic blocks and other modules



Differex™ & DNA IQ™ System Deck Layout



VERSA Gene 1100 Workstation