

## Automation of Verogen's ForenSeq™ DNA Signature Prep Kit on the VERSA 1100 Gene Workstation

The ForenSeq™ DNA Signature Prep kit (Verogen Corporation) is designed for use in forensic DNA applications, offering all autosomal short tandem repeat (STR) markers, along with X, Y-STR's, and a wide array of single nucleotide polymorphisms such as iSNPs, aiSNPs, piSNPs – all with the power of next generation sequencing (NGS) / Massively Parallel Sequencing (MPS). For forensic investigators and coroners, this means a single streamlined protocol to make the best use of precious casework samples.

Automating the ForenSeq™ protocol on the VERSA 1100 Gene starts with samples post-amplification (must separate pre-amplification setup). The 1-96 samples are placed on the deck and protected from contamination by our HEPA filtration system and power slide door. Only after the enrich target setup step does the sample plate need to be handled for PCR cycling. Subsequent purify libraries, normalize libraries, and pool libraries steps require no handling of the sample plate- greatly reducing the possibility of human contamination, while increasing the reliability and reproducibility of your results.

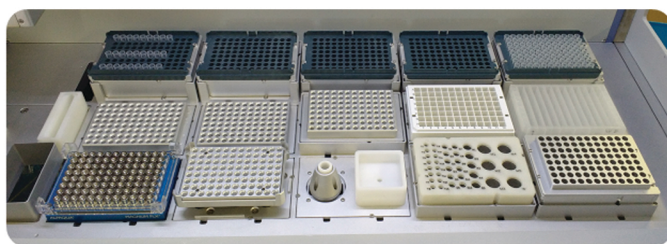
### FEATURES AND BENEFITS

- 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

Liquid Handling



VERSA Gene 1100 Workstation



ForenSeq™ DNA Signature Prep Deck Layout