



VereType-E™

- **Speed**
Total time to results in 18-27 hrs
- **Comprehensive**
Tests for *E. coli* O157:H7, Big 6 STEC and *Salmonella* spp. in a single assay
- **Accurate**
Highly specific primers and probes; target probes are replicated on the microarray
- **Sensitive**
LOD within the range of 10^4 - 10^5 cfu/mL after enrichment
- **Mobile**
The VerePLEX™ Biosystem is designed to be portable
- **Easy-to-use**
The simple workflow allows for minimally trained or non-scientific personnel to run tests
- **Flexible and Scalable**
The 5 modules on the VerePLEX™ Biosystem can be randomly accessed - for higher throughput, up to 5 VerePLEX™ Biosystems can be configured as one unit

A Lab-on-Chip (LOC) platform that allows for simultaneous detection, differentiation and identification of *Escherichia coli* O157:H7, Big 6 Non-O157 Shiga toxin-producing *E. coli* as well as *Salmonella* spp.

Targets

Escherichia coli

- O157:H7
- O26
- O45
- O103
- O111
- O121
- O145
- Toxic gene *stx1A*
- Toxic gene *stx2A*
- Toxic gene *eae*
- Toxic gene *ycpe*
- Toxic gene *ehxA*

Salmonella spp.

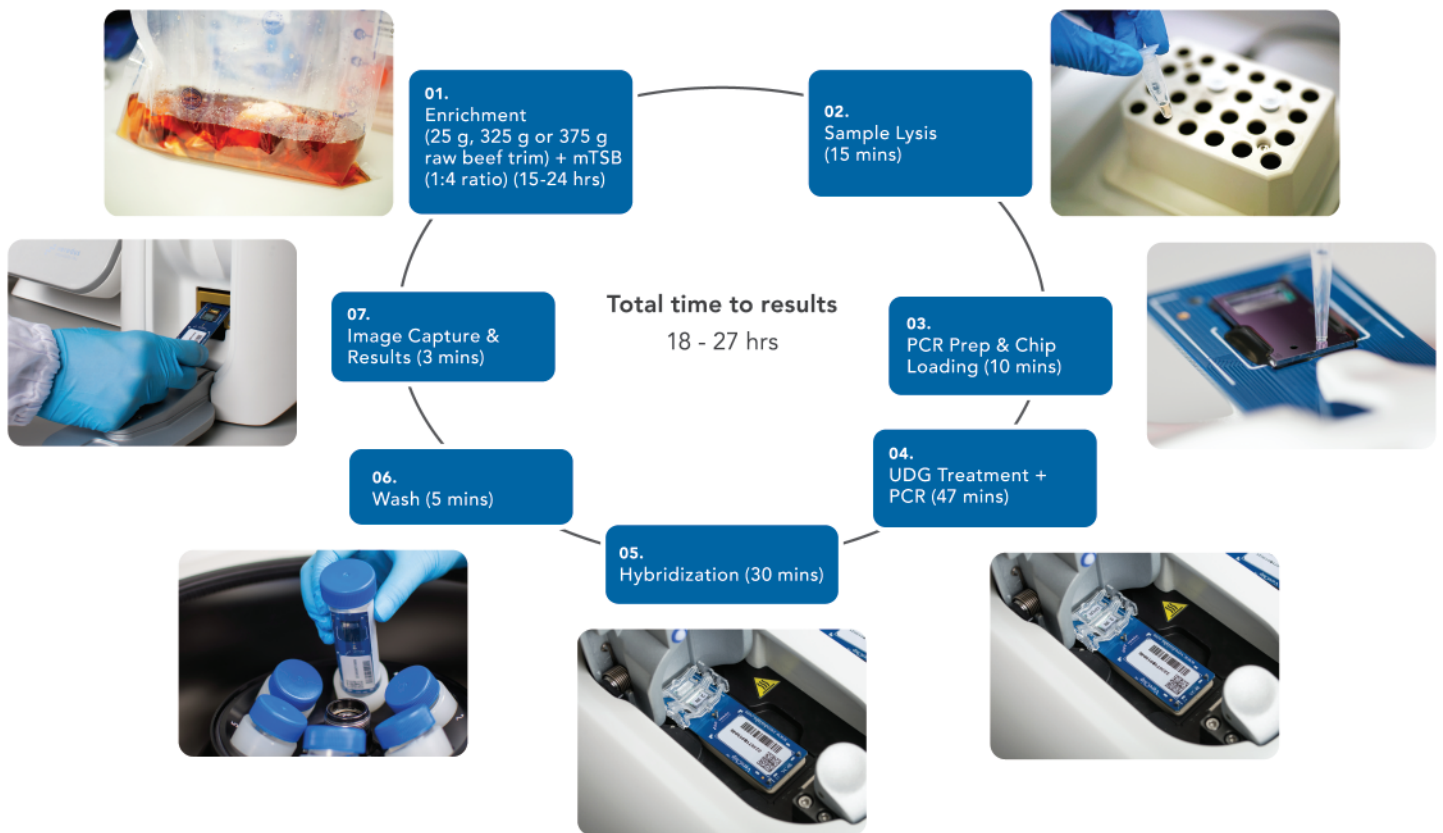
- Toxic genes *invA/ttr*

Sample Type

Raw beef trim



Workflow



Multiplexing Simplified

VerePLEX™ Biosystem

combines molecular biology, microfluidics and microelectronics to bring the future of diagnostics and surveillance to you today. The VerePLEX™ Biosystem, along with the VereChip™, is a breakthrough in innovation, integrating two powerful molecular biological technologies: PCR and Microarray.

Components:

- Temperature Control System (5 random access modules)
- Optical Reader
- Biosystem Software
- Barcode Reader
- Touch Monitor

