

# Veriflow<sup>®</sup>

**E. COLI O157:H7**

THE POWER OF **MOLECULAR DIAGNOSTICS**  
IN THE PALM OF YOUR HAND<sup>®</sup>

INNOVATIVE MOLECULAR DETECTION  
FOR FOOD SAFETY MADE **SIMPLE,**  
**ACCESSIBLE, AND AFFORDABLE**

## PRODUCT DESCRIPTION

### **Veriflow<sup>®</sup> E. coli O157:H7**

(O157:H7) represents a new, ultra sensitive and user-friendly class of diagnostics: Molecular Flow-Based Detection. The patented vertical-flow technology allows for the sensitivity of real-time PCR tests, but with the ease of use associated with lateral flow assays. The result is an effective and rapid system that minimizes sample preparation, speeds time to results, and provides easy to interpret data for the end user.

Veriflow<sup>®</sup> O157:H7 can be used for the presumptive and qualitative detection of *E. coli* O157:H7 from a variety of food matrices. The Veriflow<sup>®</sup> O157:H7 system eliminates the need for gel electrophoresis or fluorophore based detection of target amplification, and does not require complex data analysis. Veriflow<sup>®</sup> O157:H7 is the next generation in powerful diagnostic tools to help manufacturers and government regulators keep the global food supply safe.

RESULTS IN  
**18**  
HOURS



## THE VERIFLOW<sup>®</sup> **ADVANTAGE**

- ✓ **QUICK AND EASY**
  - Reduces a traditional 120 hour detection time to **ONLY 18 hours**
  - NO DNA purification required
  - **1-step** enrichment for all food matrices
- ✓ **HIGH SENSITIVITY**
  - Target amplification of multiple conserved gene markers from *E. coli* O157:H7 provides for superior sensitivity
- ✓ **SUPERIOR INCLUSIVITY AND EXCLUSIVITY**
  - 100% inclusivity rate
  - 100% exclusivity rate
- ✓ **AFFORDABLE AND ECONOMICAL**
  - Compact thermocycler reduces equipment footprint
  - Elimination of complex systems reduces capital equipment costs by as much as 80% without sacrificing operational efficiency and accuracy
  - Ease of use relieves need for highly trained personnel to run the system

**INVISIBLE SENTINEL<sup>®</sup>**

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PERFORMANCE TESTED  
**AOAC**  
RESEARCH INSTITUTE  
LICENSE NUMBER 121401

# INVISIBLE SENTINEL

*E. COLI* O157:H7 TEST PROTOCOL

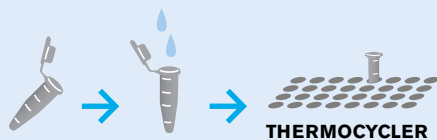
**ENRICH** After 18 hours enrichment, transfer 500 µl sample to provided 1.5 ml tube. Heat sample for 10 minutes, then allow to cool to room temperature.

## START

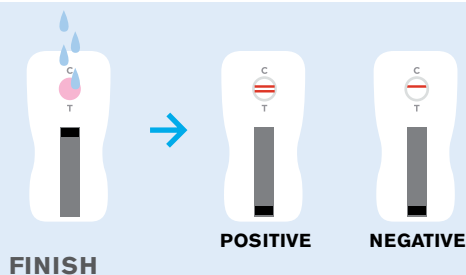


**AMPLIFY** Transfer 5 µl of heat inactivated sample into provided reagent tube. Place tube into thermocycler and run program.

## 90 MINUTE AMPLIFICATION



**DETECT** Remove reagent tube from thermocycler. Dispense reagent tube contents onto test cassette window. Wait 3 minutes and retract test cassette to reveal test results. One line indicates a negative result, two lines indicate a positive result.



## ADVANTAGES OF THE FIRST

### VERTICAL FLOW-BASED MOLECULAR TECHNOLOGY

#### Advantages Over Lateral Flow Technology

- Yields results in 3 minutes post sample addition
- Eliminates back-flow reducing false positive rate
- Provides higher sensitivity resulting in lower limit of detection
- Detects molecular signatures allowing for higher specificity

#### Advantages Over RT-PCR Technology

- No ambiguous results –one line negative, two lines positive
- No DNA purification or cumbersome sampling steps
- Minimal Training
- Easy deployment

## ORDERING INFO

For more information, please visit us online at [www.invisiblesentinel.com](http://www.invisiblesentinel.com) or call our customer service team at 215-966-6118.

ITEM #	DESCRIPTION	SIZE
IS1006	<b>Veriflow® O157:H7 Complete Test System</b> Includes: Veriflow® O157:H7 Mastermix Reagents, Veriflow® O157:H7 Cassettes, 1.5 ml Sample Boil Tubes, mBPW or mTSB	24 Tests
ISTC001	<b>Invisible Sentinel Thermocycler</b> The pre-programmed IS Thermocycler provides rapid cycling times with a small footprint.	1 unit
IS1019	<b>Veriflow® O157:H7 Assays</b> Includes: Veriflow® O157:H7 Mastermix Reagents, Veriflow® O157:H7 Cassettes	24 tests
IS0321	<b>IS Modified Buffered Peptone Water (IS mBPW) Large</b>	1 kg
IS0323	<b>IS Modified Tryptic Soy Broth (IS mTSB) Large</b>	1 kg
IS0904	<b>Veriflow®/PCR Loading Tray</b>	1 Unit

