

Veriflow[®]

**LISTERIA
MONOCYTOGENES**

THE POWER OF **MOLECULAR DIAGNOSTICS**
IN THE PALM OF YOUR HAND[®]



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

PRODUCT DESCRIPTION

Veriflow[®] *Listeria monocytogenes*

(LM) 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[®] LM can be used for the presumptive and qualitative detection of *Listeria monocytogenes* from a variety of environmental and food matrices. The Veriflow[®] LM system eliminates the need for gel electrophoresis or fluorophore based detection of target amplification, and does not require complex data analysis. Veriflow[®] LM is the next generation in powerful diagnostic tools to help manufacturers and government regulators keep the global food supply safe.

RESULTS IN
24
HOURS



THE VERIFLOW[®] **ADVANTAGE**

- ✓ **QUICK AND EASY**
 - Reduces a traditional 96 hour detection time to **ONLY 24 hours**
 - NO DNA purification required
 - **1-step** enrichment for all environmental and food matrices
- ✓ **HIGH SENSITIVITY**
 - Targets a specific gene marker in *Listeria monocytogenes* that can detect as few as 10,000 CFU/ml of sample
- ✓ **SUPERIOR INCLUSIVITY AND EXCLUSIVITY**
 - 100% inclusivity rate
 - 100% exclusivity rate
- ✓ **AFFORDABLE AND ECONOMICAL**
 - Compact thermocycler greatly 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[®]

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RESEARCH INSTITUTE
LICENSE NUMBER 051304

INVISIBLE SENTINEL

LISTERIA MONOCYTOGENES TEST PROTOCOL

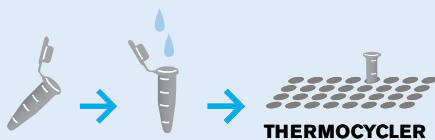
ENRICH After 24 hours enrichment, transfer 500 µl sample to provided 1.5 ml tube. Heat sample for 10 minutes, then allow to cool to room temperature.

START

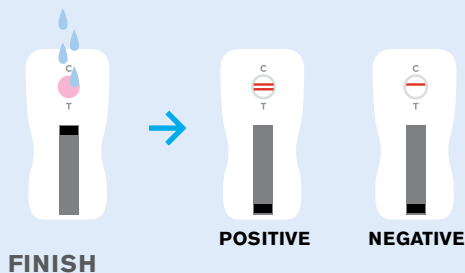


AMPLIFY Transfer 5 µl of heat inactivated sample into provided reagent tube. Place tube into thermocycler and run program.

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 or call our customer service team at 215-966-6118.

ITEM #	DESCRIPTION	SIZE
IS1002	Veriflow[®] LM Complete Test System Includes: Veriflow [®] LM Mastermix Reagents, Veriflow [®] LM Cassettes, 1.5 ml Sample Boil Tubes, Enhanced <i>Listeria</i> Broth	24 Tests
ISTC001	Invisible Sentinel Thermocycler The pre-programmed IS Thermocycler provides rapid cycling times with a small footprint.	1 Unit
IS1008	Veriflow[®] LM Assays Includes: Veriflow [®] LM Mastermix Reagents, Veriflow [®] LM Cassettes	24 Tests
IS0302	IS <i>Listeria</i> Broth (ISLB) Large	1 kg
IS0314	IS <i>Listeria</i> Broth (ISLB) Small	250 grams
IS0904	Veriflow[®]/PCR Loading Tray	1 Unit

