**Product Description**

The 3M™ Molecular Detection Assay *Listeria monocytogenes* is a breakthrough in *L. monocytogenes* testing for the food and beverage industry. An innovative solution that is fast, cost effective and easy to use without sacrificing sensitivity or specificity. The 3M Molecular Detection Assay *Listeria monocytogenes* is used with the 3M™ Molecular Detection System for the rapid and specific detection of *L. monocytogenes* in enriched food and environmental samples.

The 3M Molecular Detection Assays use isothermal amplification of nucleic acid sequences with high specificity, efficiency and rapidity. Bioluminescence is used to detect the amplification. Presumptive positive results are reported in real-time while negative results are displayed after the assay is completed.

Our system offers minimal sample transfer post-enrichment making your pathogen testing simpler and faster.

- Step 1 — Enrich
- Step 2 — Lyse
- Step 3 — Amplify and Detect

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**Benefits**

- Molecular accuracy with excellent specificity and sensitivity to help reduce the number of repeat tests
- Streamlined workflow to increase lab efficiency and technician productivity
- Real-time results to help you make critical decisions faster

**Features**

- Detects 1–5 CFU of *L. monocytogenes* per sample
- Simultaneous amplification and detection process that is complete in 75 minutes
- Positive samples identified as early as 15 minutes
- Flexibility to test 1 to 96 samples in each run
- Incorporate other assays in the same run using the same protocol
- Only two transfer steps after enrichment
- Ready-to-use and pre-dispensed reagents
- Unique color coded assay tubes by organism type
- Closed-tube system to reduce risk of amplicon contamination in the lab

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**Testing for *Listeria monocytogenes*** is a critical component of food safety programs. Foodborne disease caused by *L. monocytogenes* can result in significant adverse health conditions with a high mortality rate. Foods that have been associated with outbreaks of *L. monocytogenes* include ready-to-eat (RTE) meat and poultry, raw and smoked fish and other seafood, raw milk and soft cheeses made from raw milk, and raw vegetables.

In order to reduce outbreaks related to *L. monocytogenes*, a comprehensive farm-to-table approach to food safety is necessary. Farmers, industry, food inspectors, retailers, food service workers and consumers are all critical links in the food safety chain. Faster and more accurate testing methods are needed as traditional microbiology methods are cumbersome and may take more than four days to get results.
Kit Details
Tests Per Kit: 96
Contents:
  • Color-Coded Reagent Tubes
  • Pre-Dispensed and Ready-To-Use Lysis Solution
  • Caps
  • Reagent Control
  • Negative Control
Storage Conditions: 2–8°C (shelf-life dated on label)

Certifications and Validations
• AOAC® Performance Tested™ (Certificate #051401)

Sample Enrichment
The 3M™ Molecular Detection Assay *Listeria monocytogenes* uses Demi Fraser Broth Base and Fraser Broth Base for the enrichment of *L. monocytogenes* in a variety of food and environmental samples. Please refer to the 3M Molecular Detection Assay *Listeria monocytogenes* Product Instructions for detailed information, including scope and specific protocols for validated methods.

Do not use Demi Fraser Broth Base containing Ferric Ammonium Citrate (FAC), either already in the broth base or as an added supplement, when using the 3M Molecular Detection Assay *Listeria monocytogenes*.

3M™ Molecular Detection System Matrix Control
The 3M Molecular Detection System uses continuous amplification by a unique, high fidelity DNA polymerase that makes our system less prone to matrix interference. To assist with your verification process, we offer the 3M™ Molecular Detection Matrix Control to check for sample inhibition. 3M recommends using the Matrix Control during validation periods when adopting the 3M method or testing new or unknown matrices.

Ordering Information

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