



The Choice of the USDA

Primary detection method used by the USDA FSIS for the detection of *Salmonella*, *Listeria monocytogenes*, *Listeria* spp. and *Salmonella* Enteritidis/*Salmonella* Typhimurium.

Salmonella, *Listeria monocytogenes*, *Listeria* spp. and *Salmonella* SE/ST are a continuous threat to food production, processing facilities and consumers around the world. After performance evaluations against other methods, the USDA's Food Safety and Inspection Service has selected the Neogen® Molecular Detection System as the primary method of detection for these four highly pathogenic organisms.

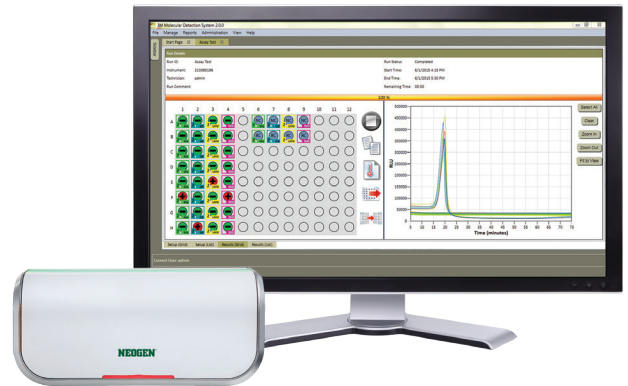
- Neogen Molecular Detection Assay 2 - *Salmonella*¹
- Neogen Molecular Detection Assay 2 - *Listeria monocytogenes*²
- Neogen Molecular Detection Assay 2 - *Listeria* spp
- Neogen Molecular Detection Assay 2 - *Salmonella* Enteritidis/Typhimurium



Make critical decisions faster

Align your *Salmonella*, *Listeria monocytogenes*, *Listeria* spp. and *Salmonella* Enteritidis/*Salmonella* Typhimurium testing to USDA FSIS methodology with the Neogen Molecular Detection System

- Easy as: 1 enrich > 2 test > 3 results
- Next day results, with presumptive positives identified in as little as 15 minutes
- Combines technologies, including isothermal DNA amplification and bioluminescence detection
- Single post-enrichment assay protocol
- Compact instrument design fits easily in a workspace
- Helps ensure that you are aligning your testing methods to the updated FSIS pathogen reduction performance standards for beef, pork and poultry. The most recent performance standards can be accessed through the USDA Food Safety and Inspection Service's Directives and Notices³.



Reliable Information You Can Trust

- Unique color change indicator for greater control during lysis step
- Fewer steps in pathogen testing
- Uses isothermal amplification of nucleic acid sequences with high specificity, efficiency and rapidity
- Positive samples identified as early as 15 minutes
- Flexibility to test 1 to 96 samples in each run
- Ability to incorporate other assays in the same run using the same protocol
- Only two transfer steps after primary enrichment
- Ready-to-use and pre-dispensed reagents
- Real-time results to help you make critical decisions faster



Learn more at: info.neogen.com/MDS

LAMP Technology makes the difference

The Molecular Detection System features Loop-Mediated Isothermal Amplification (LAMP) technology — an advancement in pathogen testing innovation that's robust, efficient, sensitive and specific. In contrast, DNA-based pathogen detection systems commonly use PCR technology (Polymerase Chain Reaction).

The USDA Food Safety and Inspection Service's Microbiology Laboratory Guidebook (MLG) has been updated to reflect 2021 DNA-based methods for pathogen detection, including Neogen Loop-Mediated Isothermal Amplification (LAMP) technology.

¹ United States Department of Agriculture Food Safety and Inspection Service Microbiology Laboratory Guidebook 4.14

² United States Department of Agriculture Food Safety and Inspection Service Microbiology Laboratory Guidebook 8.13

³ USDA Food Safety and Inspection Service Directives and Notices <https://www.fsis.usda.gov/policy/directives-notice>

