



Science.
Applied to Life.™

3M Food Safety

Our family of products keeps your family safe.

3M™ Molecular Detection System





Safety every step of the way.

3M™ Molecular Detection System

It's a long, complicated journey from family farm to family dinner. The actions you take and the decisions you make along the way could affect consumers and families around the world. Be confident that your pathogen testing process with the 3M™ Molecular Detection System is accurate and reliable. Save time and labor costs with ready-to-use reagents, a single protocol for all pathogens and same- or next-day results. Plus, with its space-saving design and ability to test for multiple types of pathogens simultaneously, it helps you increase productivity and release products quickly so you can protect consumers, your business and your bottom line.

Three steps to reliable results.

1. Set it up

Power up the system, launch the software and enter your data. Transfer enriched samples to the pre-filled lysis tubes.

2. Run the test

Heat and cool the lysis tubes. Add the sample lysate to the reagent tubes.

3. Get results

Press start, load the instrument and walk away. Monitor real-time presumptive results as pathogen DNA is detected.



Innovation that evolves.



Lysis Solution Tubes

- ▶ Advanced chemistry based on 3M nanotechnology
- ▶ Color-change process control for increased confidence in process reaction
- ▶ No reagent preparation required

3M™ Molecular Detection Assays

3M Molecular Detection Assay 2 — *Salmonella*

3M Molecular Detection Assay 2 — *Listeria*

3M Molecular Detection Assay 2 — *Listeria monocytogenes*

3M Molecular Detection Assay 2 — *E. coli* O157 (including H7)

3M Molecular Detection Assay 2 — *Cronobacter*

3M Molecular Detection Assay 2 — *Campylobacter*

3M Molecular Detection Assay 2 — STEC Gene Screen (*stx*)

3M Molecular Detection Assay 2 — STEC Gene Screen (*stx* and *eae*)

Get cutting-edge technology that evolves to meet your needs with the next generation of 3M Molecular Detection Assays. Our portfolio of products is constantly growing — so when the market changes, we're there with the latest technology.

Using isothermal DNA amplification and bioluminescence detection to overcome the limitations of older systems, these assays detect as low as 1 CFU of target pathogen per sample even in the most challenging sample matrices. Ready-to-use reagents minimize the chance for error, a color-change process control gives you increased confidence and a streamlined workflow reduces technician time by 30%. It's easy to learn, easy to use and easy to implement.

By continuously developing and adapting our platform, we help keep your process safe in the dynamic pathogen detection industry — today and in the future.

Salmonella



E. coli O157
(including H7)



Listeria



Listeria
monocytogenes



Cronobacter



Campylobacter



STEC Gene Screen
(*stx*)



STEC Gene Screen
(*stx* and *eae*)



Assay Reagent Tubes

- ▶ Color-coded by organism for easy identification
- ▶ Six primers and robust *Bst* DNA polymerase for high sensitivity and specificity
- ▶ Detects 1-5 CFU of target pathogen per sample
- ▶ Single assay protocol improves productivity



Small and powerful.

3M™ Molecular Detection Instrument

A small device can have a big impact on your lab's performance. Featuring a compact footprint that fits in any lab, a solid design with no moving parts and automatic diagnostics at start-up, this affordable instrument requires minimal maintenance. And with a high capacity of 96 samples and the flexibility to run all assays simultaneously, you can maximize your output.



- ▶ Compact design fits in any lab
- ▶ Test up to 96 samples per run for high throughput
- ▶ Run all assays simultaneously for increased productivity

Make critical decisions faster.

3M™ Molecular Detection Software

When you're making important choices that could impact businesses and public health, you need software that's intuitive and powerful. The 3M Molecular Detection Software gets you results when you need them — along with a user-friendly interface for quick setup and real-time results for faster decisions.



- ▶ Simple data entry increases efficiency
- ▶ Presumptive positive samples identified in as little as 15 minutes
- ▶ Custom reports and LIMS compatibility for enhanced information management
- ▶ Operate up to four instruments simultaneously
- ▶ Easy-access online software updates

Committed to protecting your brand.

In this business, trust is everything. That's why 3M Food Safety continues to pursue method validations from internationally recognized third-party agencies, such as AOAC® INTERNATIONAL and NF VALIDATION by AFNOR Certification, in addition to recognitions from government and regulatory organizations worldwide.



Global experience. Local support.

Protecting the world's food supply is a big responsibility — but you don't have to do it alone. We've got people to support you locally by providing technical expertise and exceptional service. It's our job to help you mitigate risk and improve operations — every lot, every shift, every day.

To learn more about how the 3M™ Molecular Detection System can help simplify your pathogen testing, contact your local 3M representative or visit 3M.com/foodsafety/MDA2.



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