Simplify your pathogen testing. Amplify your confidence.
One protocol. Fewer steps. Better results.

3M™ Molecular Detection System

Be confident in the knowledge that your pathogen testing process is accurate and reliable with the 3M Molecular Detection System. Save time and labor costs with ready-to-use reagents, a single protocol for all pathogens and same- or next-day results. Plus, with a space-saving instrument able to test for multiple types of pathogens simultaneously, the 3M Molecular Detection System helps you increase productivity, release products quickly and protect your business — and your bottom line.
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 results as pathogen DNA is detected.
Advanced technology. Simplified.

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)

Get better results when you need them with the next generation of 3M Molecular Detection Assays. Using advanced technologies — isothermal DNA amplification and bioluminescence detection — to overcome the limitations of older PCR and antibody-based 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.

Lysis Solution Tubes

- Advanced chemistry based on 3M nanotechnology
- Color-change process control for increased confidence
- No reagent preparation required
**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.

Run all assays simultaneously for increased productivity

Compact design fits in any lab

Test up to 96 samples per run for high throughput

3M™ Molecular Detection Instrument

A small device can have a big impact on your bottom line. 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.
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. So you can know and go.

- Simple data entry increases efficiency
- Positive samples identified in as little as 15 minutes
- Custom reports and LIMS compatibility for enhanced data management
- Operate up to four instruments simultaneously
Support you can count on.

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.