

3M Molecular Detection System (MDS100) Components

- Instrument
- Instrument Pluggable Heater
- Speed Loader Tray
- Power Cord and USB Cable
- Safety Sheet/Installation Guide

3M Molecular Detection System Accessory Kit — Included with MDS100

- Chill Block Insert
- Cap/Decap Tool — Lysis
- Cap/Decap Tool — Reagent
- Empty Lysis Tube Rack
- Empty Reagent Tube Rack

3M Molecular Detection System — Additional Accessories

- Heat Block Insert (150 × 96 × 58mm/5.9 × 3.8 × 2.3 in.)
– For use with a 2 block capacity dry block heater

Additional System Requirements — Not Provided by 3M

- Computer workstation* and printer
 - Operating System: Microsoft® Windows® 7 or 8 (32 or 64-bit) or 10 (64-bit)
 - CPU: 2.0 GHz, RAM: 2 GB, HDD: 20 GB available disk space, 1024×768 Display, USB 2.0
- 8-channel pipettor (5.0–50µL) and tips
- Single channel pipettor (5.0–50µL) and tips
- Digital or analog dry block heater
 - 2 block capacity

***Operating System:** Microsoft® Windows® 7 (32- or 64-bit), Microsoft® Windows® 8 (32- or 64-bit) or Windows® 10 (64-bit);
CPU: 2.0 GHz Intel Pentium 4 or similar processor;
RAM: 2 GB (3 GB recommended); **HDD:** 20 GB available disk space; 1024 × 768 Display; USB 2.0. Internet connection needed to download Molecular Detection System Software.



Instrument Specifications

Electrical Specifications

Model MDS100	Specification
Voltage	24 V
Current	2.5 A

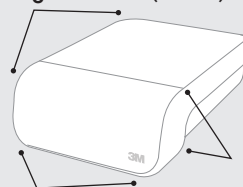
Power Supply	Specification
Input Voltage	100–240 V
Frequency	50/60 Hz
Maximum Input Current	1.5 A
Output Voltage	24 V
Output Current	2.5 A

Environmental Operating Conditions

Environmental Condition	Operating Condition
Altitude	Max 2000m
Operating Temperature	15°C–35°C
Storage Temperature	-10°C–60°C
Relative Humidity	30–80% non-condensing
Pollution Degree	2
Installation (Overvoltage Category)	II
Indoor use only	

Dimensions

Length 292mm (11.5 in.)



Width 213mm (8.4 in.)

Height 96mm (3.8 in.)

Weight 4.3kg (9.5 lb.)

External Connectors

USB 2.0 type B connector
Male 2.1mm ID 5.5mm OD Jack

A total solution you can trust.



3M™ Molecular Detection Assays

- ▶ 3M Molecular Detection Assay 2 – *Salmonella*
- ▶ 3M Molecular Detection Assay 2 – *E. coli* O157 (including H7)
- ▶ 3M Molecular Detection Assay 2 – *Listeria*
- ▶ 3M Molecular Detection Assay 2 – *Listeria monocytogenes*
- ▶ 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*)
- ▶ 3M Molecular Detection Matrix Control

3M™ Enrichment Media

- ▶ 3M Buffered Peptone Water Broth (ISO)
- ▶ 3M Demi Fraser Broth Base
- ▶ 3M Fraser Broth Base

3M™ Sample Collection

- ▶ 3M Enviro Swabs
- ▶ 3M Hydrated-Sponges, Dry-Sponges and Sponge-Sticks
- ▶ 3M Sample Bags



Ordering Information

Catalog Number	Description	Qty.
MDS100	3M™ Molecular Detection Instrument and Accessory Kit	1
Additional Accessories — Included in Accessory Kit		
MDSSTL	3M™ Molecular Detection Speed Loader Tray	1
MDSCBIN	3M™ Molecular Detection Chill Block Insert	1
MDSCDL	3M™ Molecular Detection Cap/Decap Tool — Lysis	1
MDSCDR	3M™ Molecular Detection Cap/Decap Tool — Reagent	1
Additional Accessories — Not Included in Accessory Kit		
MDSHBIN	3M™ Molecular Detection Heat Block Insert	1

Certifications and Validations

3M Molecular Detection Assays have been validated by internationally-recognized third-party agencies, including AOAC® INTERNATIONAL and AFNOR Certification, in addition to recognitions from government and regulatory organizations in countries around the world. Visit us at 3M.com/foodsafety/MDA2 for detailed information.

End-to-End Solutions

With more than 30 years of global experience in the food and beverage industry, 3M Food Safety offers a full line of products that work together for consistent, reliable results.



3M Food Safety
3M Center, Building 275-5W-05
St. Paul, MN 55144-1000 USA

1-800-328-6553
3M.com/foodsafety/MDA2

3M Canada
Post Office Box 5757
London, Ontario N6A 4T1
Canada

1-800-364-3577

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