

## Specification Sheet

# 3M™ Molecular Detection System

### 3M Molecular Detection System (MDS100) Components

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

### 3M Molecular Detection System Accessory Kit—Included with MDS100

- Chill Block Insert and Chill Block Tray
- 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—for use with a Double Dry Block Heater

### Additional System Requirements—Not provided by 3M

- Computer workstation and printer
  - Operating System: Microsoft® Windows® XP with SP3, Vista™ with SP2 or 7 (32 or 64-bit)
  - CPU: 2.0 GHz, RAM: 2 GB, HDD: 20 GB available disk space, 1024x768 Display, CD/DVD Drive, USB 2.0
- 8-channel pipettor (5.0–50 µL) and tips
- Single channel pipettor (5.0–50 µL) and tips
- Digital or analog dry block heater
  - 2 block capacity (39.1 x 20.3 x 8.9 cm)



## Instrument Specifications

### Electrical Specifications

Model MDS100	Specification
Voltage	24 V
Current	2.5 A

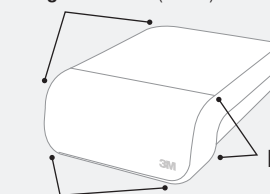
Power Supply	Specification
Input Voltage	100–240 V
Frequency	50/60 Hz
Maximum Input Current	1.5 A
Output Voltage	24 V
Output Current	2.5 A

### Environmental Operating Conditions

Environmental Condition	Operating Condition
Altitude	Max 2000 m
Operating Temperature	15°C–40°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")



Width 213mm (8.4")

Height 96mm (3.8")

Weight 4.3 Kg (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



## 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
MDSBIN	3M™ Molecular Detection Chill Block Insert	1
MDSGBT	3M™ Molecular Detection Chill Block Tray	1
MDSDDL	3M™ Molecular Detection Cap/Decap Tool—Lysis	1
MDSDDR	3M™ Molecular Detection Cap/Decap Tool—Reagent	1
Additional Accessories—Not included in Accessory Kit		
MDSHIN	3M™ Molecular Detection Heat Block Insert	1

## 3M™ Molecular Detection Assays and Matrix Control

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

## 3M™ Enrichment Media

- ▶ 3M Buffered Peptone Water Broth (ISO)
- ▶ 3M Modified *Listeria* Recovery Broth and Supplement

## 3M™ Sample Handling

- ▶ 3M Hydrated and Dry EnviroSwabs
- ▶ 3M Hydrated and Dry Sponges and Sponge-Sticks
- ▶ 3M Sample Bags

## Certifications and Validations

Studies to meet AOAC PTM/Official Method of Analysis and AFNOR NF ISO 16140 requirements are underway.

## End-to-End Solutions

With more than 25 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.



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