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
- \bullet Single channel pipettor (5.0–50 $\mu L)$ 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-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





A Total Solution You Can Trust



3M[™] Molecular Detection Assays and Matrix Control

- ► 3M[™] Molecular Detection Assay Salmonella
- ► 3M[™] Molecular Detection Assay *Listeria*
- ► 3M[™] Molecular Detection Assay *E. coli* 0157 (including H7)
- ► 3M[™] Molecular Detection Matrix Control

Ordering Information

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Catalogue Number	Description	Qty.
MDS100	3M™ Molecular Detection Instrument and Accessory Kit	1
Additional Accessories—Included in Accessory Kit		
MDSSLT	3M™ Molecular Detection Speed Loader Tray	1
MDSCBIN	3M™ Molecular Detection Chill Block Insert	1
MDSCBT	3M™ Molecular Detection Chill Block Tray	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

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.

Innovative Solutions

With more than 25 years of global experience in the food and beverage industry, 3M Food Safety offers a comprehensive range of products that provide consistent, reliable results.



3M Food Safety
3M Health Care Limited
3M House
Morley Street
Loughborough
Leicestershire LE11 1EP
Tel: 01509 613191
Fax: 01509 613087
Email: ukfoodsafety@mmm.com
Web: www.3M.com/foodsafety

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