

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 (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® XP with SP3, Vista™ with SP2, 7 or 8 (32 or 64-bit)
 - CPU: 2.0 GHz, RAM: 2 GB, HDD: 20 GB available disk space, 1024×768 Display, USB 2.0
- ▶ 8-channel pipettor for 20µL volume
- ▶ Single channel pipettor for 20µL volume
- ▶ Digital or analog dry block heater
– 2 block capacity
- ▶ Filter tips 20µL volume
- ▶ Partial immersion thermometer rated over 100°C or a probe for monitoring the heater block



Instrument specifications

Electrical specifications

Model MDS100	Specification
Voltage	24 V
Current	2.5 A

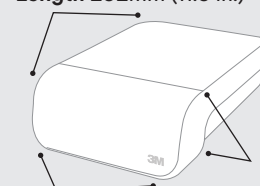
Power supply	Specification
Input voltage	100–240 V
Frequency	50/60 Hz
Maximum input current	1.5 A
Output voltage	24 V
Output current	2.5 A

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 matrix control

3M™ Enrichment media

- ▶ 3M Buffered peptone water broth (ISO)
- ▶ 3M Demi Fraser broth base
- ▶ 3M Fraser broth base

3M™ Sample handling

- ▶ 3M Enviro swabs – hydrated and dry
- ▶ 3M Hydrated-sponges, dry-sponges and sponge-sticks
- ▶ 3M Sample bags

Ordering information

Catalogue number	Description	Qty.
MDS100	3M™ Molecular Detection instrument and accessory kit	1
Additional accessories – included in accessory kit		
MDS5LT	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-recognised third-party agencies, including **AOAC® INTERNATIONAL** and **AFNOR Certification**, in addition to recognitions from government and regulatory organisations 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.

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