

Neogen® Molecular Detection System

Molecular Detection System (MDS100) Components

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

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

Molecular Detection System – Additional Accessories

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

Additional System Requirements – Not Provided by Neogen

- Minimum Computer/Server Requirements:
 - Microsoft™ Windows™ 8.1 (32- or 64-bit), or Microsoft™ Windows™ 10 (Ultimate, Professional, and Enterprise editions)
 - Microsoft™ SQL Server 2008; Microsoft™ SQL Server 2012, 2014, 2016 and 2017
 - 2.0 GHz Intel™ Pentium™ 4 or similar/faster processor
 - 2 GB RAM (4 GB size recommended)
 - 20 GB free hard disk space
 - 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



Instrument Specifications

Electrical Specifications

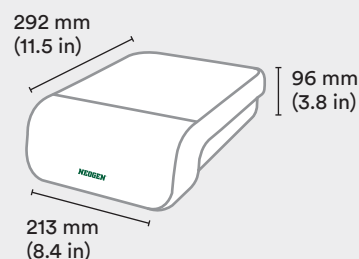
Model MDS100	Specification
Voltage	24 V
Current	2.5 A

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



Weight:
4.3kg (9.5 lb)

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

A total solution you can trust

Neogen Molecular Detection Assays 2 (MDA 2)

- MDA 2 - *Salmonella*
- MDA 2 - *E. coli* O157 (including H7)
- MDA 2 - *Listeria*
- MDA 2 - *Listeria monocytogenes*
- MDA 2 - *Cronobacter*
- MDA 2 - *Campylobacter*
- MDA 2 - STEC Gene Screen (*stx*)
- MDA 2 - STEC Gene Screen (*stx and eae*)
- Molecular Detection Matrix Control

Neogen Enrichment Media

- Buffered Peptone Water Broth (ISO)
- Demi Fraser Broth Base

Neogen Sample Collection

- Enviro Swabs
- Hydrated-Sponges, Dry-Sponges, and Sponge-Sticks

Certifications and Validations

Neogen MDA 2 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 info.neogen.com/MDS



Ordering Information

Description	Cat. No.	Qty.
Neogen Molecular Detection System		
Molecular Detection Instrument and Accessory Kit	MDS100	1
Additional Accessories – Included in Accessory Kit		
Molecular Detection Speed Loader Tray	MDSSTLT	1
Molecular Detection Chill Block Insert	MDSCBIN	1
Molecular Detection Cap/Decap Tool – Lysis	MDSCDL	1
Molecular Detection Cap/Decap Tool – Reagent	MDSCDR	1
Additional Accessories – Not Included in Accessory Kit		
Molecular Detection Heat Block Insert	MDSHBIN	1

End-to-end Solutions

With more than 40 years of global experience in the food and beverage industry, Neogen offers a full line of products that work together for consistent, reliable results.



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FS00391_0523