

# 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 – Required Accessory (Sold Separately MDSHBIN)

- 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® 10 or 11 Pro
  - Microsoft® SQL Server 2019
  - Intel i5 or Similar Processor; 16 GB RAM
  - 500 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

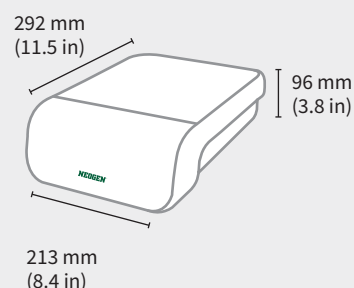
| Model MDS100 | Specification |
|--------------|---------------|
| Voltage      | 24 V          |
| Current      | 2.5 A         |

| 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 (MDA)

- MDA 2 - *Salmonella*
- MDA 2 - *Salmonella* Enteritidis/*Salmonella* Typhimurium
- MDA 2 - Quantitative *Salmonella*
- MDA 2 - *E. coli* O157 (including H7)
- MDA - *Listeria* Right Now™
- MDA 2 - *Listeria monocytogenes*
- MDA 2 - *Listeria* spp.
- MDA 2 - *Cronobacter*
- MDA 2 - *Campylobacter*
- MDA 2 - STEC Gene Screen (*stx*)
- MDA 2 - STEC Gene Screen (*stx* and *eae*)
- Molecular Detection Matrix Control
- Right Now™ Matrix Control

## Neogen Enrichment Media

- Buffered Peptone Water Broth (ISO)
- Demi Fraser Broth
- LESS Plus Broth
- Neogen *Campylobacter* Enrichment Broth

## Neogen Sample Collection

- Enviro Swabs
- Swab Sampler
- Hydrated-Sponges, Dry-Sponges, and Sponge-Sticks
- Environmental Scrub Sampler
- Enrichment Pouches

## Certifications and Validations

Neogen MDA 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](http://info.neogen.com/MDS)



## Ordering Information

| Description                                      | SKU     | Qty |
|--------------------------------------------------|---------|-----|
| Neogen Molecular Detection System                |         |     |
| Molecular Detection Instrument and Accessory Kit | MDS100  | 1   |
| Accessories Required – Not Included in Kit       |         |     |
| Molecular Detection Heat Block Insert            | MDSHBIN | 1   |
| Accessories Included in Kit                      |         |     |
| Molecular Detection Speed Loader Tray            | MDSSLT  | 1   |
| Molecular Detection Chill Block Insert           | MDSCBIN | 1   |
| Molecular Detection Cap/Decap Tool – Lysis       | MDSCDL  | 1   |
| Molecular Detection Cap/Decap Tool – Reagent     | MDSCDR  | 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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