

The New Jersey Department of Agriculture (NJDA), Animal Health Diagnostic Laboratory (AHDL) requires a SENSITITRE ARIS HiQ System, which is an automated incubation and reading system designed for antimicrobial susceptibility testing (AST). It allows microbiology laboratories to achieve accurate MIC results, guiding targeted patient therapy and supporting antimicrobial stewardship.

Key features for SENSITITRE ARIS HiQ System include:

- **Capacity:** Accommodates up to 100 microtiter plates within a single instrument.
- **Automation:** Streamlines the testing process, reducing the need for manual intervention and retesting.
- **Broth Microdilution:** Utilizes the gold-standard method for MIC results, ensuring high accuracy.
- **User-Friendly Interface:** Integrated LCD touchscreen for easy operation and data interpretation.

The instrument currently in use, the SENSITITRE ARIS 2x system will be discontinued by the end of 2025. This system will not be supported by Thermo Scientific after 2025.

The role of a diagnostic laboratory to diagnosing a disease to identify and provide the susceptible pattern of the bacteria that is causing the disease. Antimicrobial susceptibility testing is vital for both individual patient care and public health. One of its primary purposes is to **guide the animal healthcare providers in selecting the most effective antibiotic to treat bacterial infections**. The laboratory identifies various pathogenic bacteria, as part of its diagnostic testing menu. The AHDL also must be always prepared to be ready to perform testing in case of any disease outbreak scenarios. The new **SENSITITRE ARIS HiQ System** would also enable AHDL to have a faster turnaround of sensitive/client reports for many bacteria as it can accommodate up to 100 microtiter plates within a single instrument.

The NJDA, Animal Health Diagnostics Laboratory provides diagnostics testing services to support disease control programs, health management and productivity of food and fiber producing animals, equine, fish, poultry, wildlife, companion animals and other pets. This would greatly enhance the service experience and significantly improve outcomes for AHDL's clients.

Equipment

Thermo Fisher Scientific SENSITITRE complete ARIS HiQ

Parameter Specifications

Instrument Dimensions

Width: 29.53 in

Depth: 28.94 in

Height: 44.31 in

Mains supply

voltage

100-240 VAC; 60 Hz (*110 VAC +/- 10%
US)

Mains voltages shall not exceed $\pm 10\%$

Main input

frequency

50-60 Hz.

Electrical safety class:

Class 1 (the power supply must have a
protective earth (ground) connection at
all times)

System capacity 100 Thermo Scientific™ Sensititre™
plates

Environmental

conditions

Indoor use only

Temperature: 68-86°F (20–30°C), when
incubating at 95°F (35°C)

Relative humidity: 5–80% noncondensing

Environmental pressure: 70–106 kPa

Operating altitude: up to 6,562 feet

Installation category II

Dissipated heat: 1706.071 BTU/hr

Noise generated 74 dB when reading a plate at maximum
noise level.

dB reading taken at the touchscreen
operating position.

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Find out more at [thermofisher.com](https://www.thermofisher.com)

Parameter Specifications

Operating temperature

Factory pre-set to 95±1°F

Length of operation

Continuous Power consumption

790 VA (Max)

Main fuse rating T10AH250V (5 mm x 20 mm)

Communications RS 232 – C DTE (not currently
configured)

USB 2.0 for communication connection
to Thermo Scientific™ Sensititre™
SWIN™ Software System

*110 VAC +/- 10% (US)

Associated with the ARIS HiQ, there will be:

- SWIN Software Epidemiology Module
- CONDITIONED UPS 1440VA,
- FREIGHT

Support Plan:

An additional 1-year extended warranty plan will be provided.

The contract level for this is SDGGOLD

Service will include:

- Access to the Technical Service Hotline 24/7, excluding Thermo Fisher Scientific Holidays
- Target FSE on-site response for corrective maintenance: ≤2 business days.
- Annual Preventative Maintenance Service, including PM parts/supplies
- Software/Firmware upgrades including labor, travel, and parts
- Corrective Maintenance Services, including travel and parts
- Access to loaner instruments, if needed (dependent on loaner availability)
- Applications Support: one Applications visit per contract year, up to three consecutive 8-hour business days on site