**Description of Equipment Need**

The New Jersey Department of Agriculture (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 The AHDL also has to be prepared at all times to be ready to perform testing in case of any disease outbreak scenarios. Testing is done in accordance with rules and regulations implemented by various regulatory agencies such as USDA, FDA, NAHLN, VETLIRN etc. following ISO standards, and includes molecular, serological, bacterial and virology testing.

The laboratory tests for antimicrobial sensitivity of various pathogenic bacteria as part of its diagnostic testing menu. The instrument currently in use, the SENSITITRE ARIS 2x, system will be discontinued by the end of 2025. The laboratory will purchase a SENSITITRE ARIS HQ system, with all associated attachments required for proper functioning.

**Equipment**

Thermo Scientific SENSITITRE ARIS HQ system

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 ± 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 at95°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

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 , the other piece of equipment required for operation is Thermo Scientific SENSITITRE AIM System

The space requirement for this instrument:

Benchtop should have the required depth of 29 in. and length

of 24 in.

• Clear height above bench should be 18 in.

• The bench should be capable of securely supporting the

instrument weight of 25 lbs

There should be a power outlet available providing power at

100-240 VAC 50-60 Hz\* (not to exceed +/- 10%)

\*110 VAC +/- 10% (US)

Instrument dimensions

Width: 11.3 in; 28.7 cm

Depth: 13.3 in; 33.8 cm

Height: 12.3 in; 31.2 cm

Weight 17.6 lbs

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

Main input frequency 47-63 Hz.

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

times)

**Support Plan**

*Additional 3-year extended warranty plan.*

This 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