

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.

Being a diagnostic laboratory, the first step in diagnosing a disease is to identify the organism that is causing the disease. The laboratory identifies various pathogenic bacteria, and fungi, as part of its diagnostic testing menu. The instrument currently in use, the MALDI Microflex LT system will be discontinued by the end of 2025. The laboratory will purchase a MBT **Sirius RUO System** with all associated attachments required for proper functioning.

Equipment

MBT Sirius RUO System

	MALDI Biotyper sirius / sirius one
Depth	28 inches
Width	20 inches
Height	42 inches
Weight (net)	165 pounds

Electrical requirements

Properly grounded dedicated A/C power branch circuit capable of providing typical 10 Amps @ 110 Volts / 60 Hz North American. Correct grounding of the electrical installation must be guaranteed by the customer.

Uninterruptible Power Supply (UPS):

- For MBT CA System, a UPS is required and included with the shipment. Two (2) separate outlets with an individual breaker for each outlet are required for this system.
- For MBT RUO System or MALDI-MS System w/o MBT application, a UPS is an optional add-on and not included with shipment. UPS is recommended for this system. Without UPS, 4 separate outlets with an individual breaker for each outlet are required to ensure that an individual instrument malfunction does not affect other system elements.

Circuit Breaker: The circuit breaker should have a minimum 10A protection.

BIOSPECS FOR MBT SIRIUS RUO SYSTEM

Grounding: Using the neutral wire as safety ground is not acceptable. The ground wire must be an isolated ground, carrying zero current except in the event of a fault.

Electro Magnetic Interference: The operating environment must be considered carefully, because electromagnetic interference such as NMR or radio transmitters may have a detrimental effect on MALDI-TOF system performance.

Heat dissipation: The instrument dissipates up to 400 Watts (1364 BTU/hr). The data system and the additional equipment also contribute significantly to the cooling load although the exact amount depends on the configuration

Support Plan

An additional 3-year extended warranty plan will be provided.

This will include:

- Access to the Technical Service Hotline 24/7, excluding 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

The MALDI Biotyper Sirius is the latest-generation MALDI-TOF mass spectrometry system for microbial identification.

The system offers a substantial improvement in both performance and sustainability:

- Next-generation electronics for faster processing and long-term platform support
- MBT smart beam™ Lifetime laser* (200 Hz) ensures rapid, high-throughput ID with reduced wear
- Positive/negative ion mode adds flexibility for expanded research and application development
- Integrated ion source cleaning and a high-capacity vacuum system minimize downtime and streamline maintenance
- Full software and database compatibility ensures a smooth transition with no workflow disruption

The Sirius system represents a future-ready investment that enhances system reliability, expands capabilities, and ensures continued support.

In order to be considered for this bid, the PB120 must be returned by June 20, 2025 4pm EST

The winning bidder must be registered in NJSTART prior to the issuance of a Purchase Order.

If you are awarded this procurement, be advised that a DPA packet must be completed that includes the following forms:

Information Sheet and Certification for DPA Transactions

State of New Jersey Standard Terms and Conditions and Waivered Contracts/Delegated Purchasing Authority Supplement to the State of New Jersey Standard Terms and Conditions

Ownership Disclosure Form

Disclosure of Investigation and Other Activities Involving Bidder Forms

Disclosure of Investments Activities in Iran Form

Source Disclosure Form

BIOSPECS FOR MBT SIRIUS RUO SYSTEM

MacBride Principles Certification Form

Vendor Certification and Political Form / Two Year Chapter 51 / Executive Order 117 Vendor Certification and Disclosure of Political Contribution Form

Affirmative Action Form

Delegated Purchasing Authority Terms and Conditions

Proof of NJ Business Registration (www.nj.gov/treasury/revenue/guiderequest.shtml) with the Division of Revenue and Enterprise Services (www.nj.gov/treasury/revenue/) – Provide a copy of Business Registration Certificate

Proof of Insurance (ACORD Form)

Chapter 271 Vendor Certification and Political Disclosure Form

Certification of Non-Involvement in Prohibited Activities in Russia or Belarus Pursuant to P.L. 2022.c3

Proof of Affirmative Action Compliance

All DPA Forms Packet Can be Located at

(www.nj.gov/treasury/purchase/forms/Waiver%20and%20DPA%20Contract%20Checklist.pdf)

[illegible]