

Product Description

MALDI Biotyper® sirius

MALDI Time-of-Flight Mass Spectrometer

Bruker part number: # 1865142

Used in following MALDI Biotyper (MBT) IVD solution package:

1890112 MALDI Biotyper sirius IVD System



A powerful linear mode benchtop Time-of-Flight Mass Spectrometer equipped with self-cleaning microScout™ MALDI Ion Source, smartbeam™ Laser with 200 Hz repetition rate, FlashDetector™ system and PAN™ wide mass range focusing.

- MALDI Ion Source with integrated self-cleaning procedure in less than 15 minutes
- TOF-Analyzer for Linear mode
- TOF-Analyzer for Positive and Negative Ion mode*
- Small footprint
- WhisperMode™ for silent operation
- Industrial hardened vertical design

A. Self-cleaning microScout™ MALDI Ion Source

- Gridless microScout MALDI Ion Source with integrated source cleaning; for target plates (54mm x 36mm) with exact dimensions of 1/4 microtiter plate
- Automated ion optics cleaning in minutes based on laser irradiation (patent granted)
- 3rd generation proprietary PAN pulsed ion extraction technology for high mass accuracy and unmatched resolution spectra across an extended mass range
- Patented 200 Hz Bruker smartbeam Laser including variable power attenuator and UV optics
- Manually operated sample inlet system

B. High Performance Time-of-Flight Mass Analyzer

- Linear TOF-Analyzer for positive and negative ion detection*
- Ultra-stable electronics for TOF-Analyzer, detector and ion source fully enable 200 Hz data acquisition rate
- High capacity vacuum system including vacuum measurement and control unit: 260 l/sec turbo-molecular pump (or better) combined with maintenance-free diaphragm pump
- Saturation-free FlashDetector technology providing highest dynamic range, mass resolution and accuracy
- Fast, high-performing 500 MS/s digitizer plug-in board

* negative ion mode for RUO, not for use in clinical diagnostic procedures

C. Data system:

- PC Workstation with 3.5 GHz Single-CPU-Quad-Core-processor (or better), 16 GB RAM, 2 x 2 TB hard disks, Ethernet connection for external networks
- Optical Bluray drive
- ≥ 24" flat screen colour monitor or better
- Windows™ 7 Pro 64-bit operating system or better
- Remote Service capability via 128-bit SSL-security web connection



D. Applications Software:

- MALDI Biotyper Compass with modular software architecture allows for application tailored solutions
 - Support of microorganism identification workflows
 - Following MBT Compass modules are available as options:
 - MBT Explorer Module (for creation or extension of reference libraries)
 - MBT Subtyping Module (for differentiation of selected closely related species)
 - MBT Sepsityper Module (for positive blood culture workflow)
 - MBT STAR-BL Module (for beta-lactamase susceptibility testing)
 - MBT Satellite Module (for remote project creation)
 - Released for Windows™ 7 or better operating system
- MALDI Biotyper Compass IVD-Upgrade with modular software architecture allows for application tailored solutions
 - Support of microorganism identification workflows in clinical diagnostic procedures
 - Following MBT Compass IVD modules are available as options:
 - MBT Sepsityper IVD Module (for positive blood culture workflow)
 - MBT STAR-BL IVD Module (for beta-lactamase susceptibility testing)
 - MBT Satellite IVD Module (for remote project creation)

E. Set of User manuals (on DVD) in local languages

F. Installation

G. Familiarization upon installation

H. 1-year warranty

I. MALDI Biotyper training course included