

LaserToF LT3 Plus

BENCHTOP MALDI-ToF MS

SAI's LaserToF LT3 Plus is a completely automated, compact and versatile matrix assisted laser desorption ionisation time of flight (MALDI-TOF) mass analyser. The instrument is designed for the rapid and accurate analysis of a wide range of biomolecules such as peptides, proteins and oligonucleotides. The LT3 Plus is also suitable for the analysis of industrial polymers as used in the petroleum and chemical additive industries.

Key Features

- **Reflectron & Linear MALDI-TOF**
- **96 Well 1/4 Microtitre Plate**
- **Pulsed Extraction**
- **Simple Operation**
- **Sample Viewing Camera**
- **Attractive Pricing**
- **Small Footprint**



Mass Spectrometer

- Advanced acquisition and control electronics
- High stability and easy calibration for optimum precision for a wide range of measurements
- Fast electron multiplier detector system as standard for linear operation
- Fast microchannel plate detector system as standard for reflectron operation
- High gain, large dynamic and linear range to improve the system performance
- Detectors have long lifetime and low maintenance

Data System

Hardware

Windows PC including:

- 2 Gbytes of RAM
- High capacity hard disk drive
- CD-ROM drive
- 19" flat screen colour monitor.
- Network connection

Software

Full control of all MS parameters,

- Data acquisition and data reduction program
- Automated sequence programming for batch operation
- Database search of peptide map data
- The system comes network ready

Specifications

Resolution

Reflectron >10,000 (FWHM)

Linear >2,500 (FWHM)

Mass Accuracy

External calibration <100 ppm RMS

Internal calibration <20 ppm RMS

Mass Range

> 500,000 Da.

Sensitivity

Less than 1 fmol

Laser

Type Pulsed UV 337nm(nitrogen)

Vacuum System

Pumping is provided by 2 high efficiency air cooled turbomolecular pumps coupled to an oil free diaphragm backing pump that is built into the same footprint.

Services

Power: 220-250V, 4.5 A, single phase
or 110V, 9A single phase

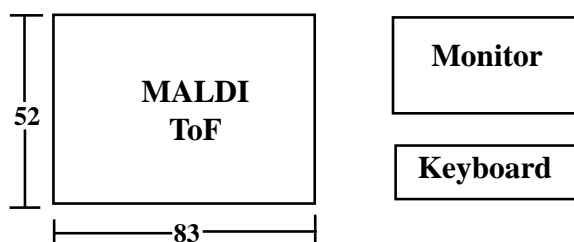
Environment: Temperature range from 15-27°C

Dimensions: 83 x 52 x 150 cm (W x D x H)

Weight: Approx. 170 Kilos

Services: Electricity only. No water required

Layout



Local Representative