



smartfleX MALDI-TOF MS System

- Get reliable answers to essential questions. Instantly.

smartfleX MALDI-TOF MS System



smartfleX

Bruker's latest member of the benchtop MALDI-TOF family, the smartfleX, features both positive and negative ion mode allowing to access the full analyte space while spanning a wide mass range.

The intuitive operation of the smartfleX will establish a higher productivity instantly. Your routine applications such as quality control or compound mass verification can be mastered with this conveniently silent MALDI system.

The entry level MALDI-TOF system with built-in 30 years of MALDI experience.

Continuous operation by design

Bruker's proprietary and proven long lifetime smartbeam laser running at up to 200 Hz enables faster analysis of samples.

Push-button instrument maintenance within minutes without breaking the vacuum for maximized uptime. 100% tool-free.

Most simple-to-use MALDI-TOF in a true benchtop design

It has never been easier to generate meaningful MS data from your precious samples. A workflow-oriented software interface guides the user through spectra acquisition and downstream data processing.

Large variety of MALDI targets to match your needs

1/4-MTP sized targets for convenient throughput:

Re-usable target plates:

Steel targets:

MSP 96 target polished steel BC # 8280800

MSP 96 target ground steel BC # 8280799

Anchor chip target

MSP AnchorChip™ 96 BC # 8280823

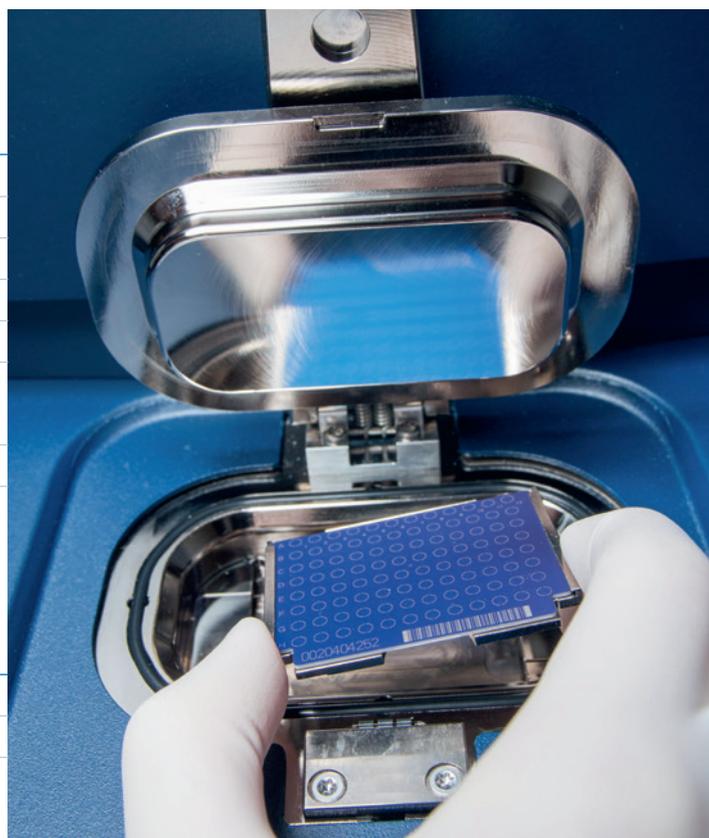
Disposable target plates:

Biotarget 96 # 1840375

smartfleX MALDI-TOF MS System Dimensions

L x W x H: 500 x 710 x 1070 mm

Weight: 75 kg

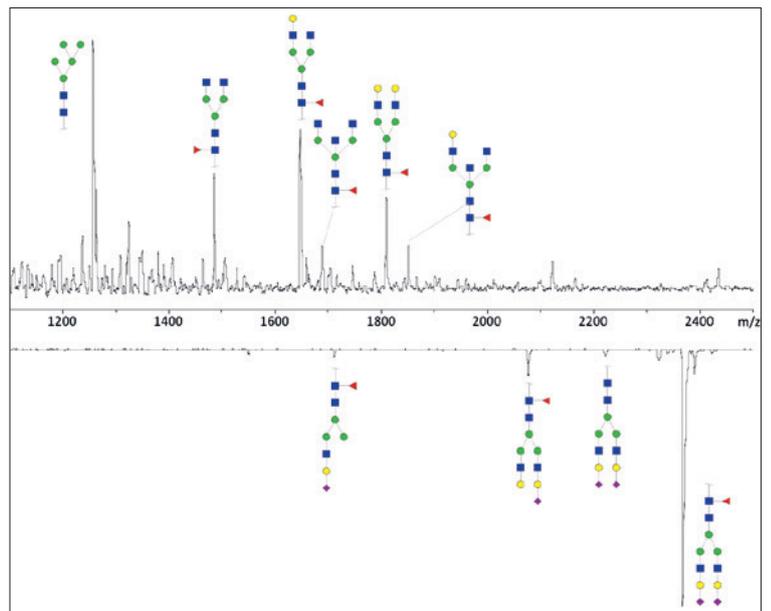


Get the full picture: tackle the entire analyte space

Seamless polarity switching controlled by the software

The smartfleX provides access to the complete MALDI analyte space in positive and negative ion mode for analysis of a broad variety of samples. Solve your daily challenges quickly with instant answers.

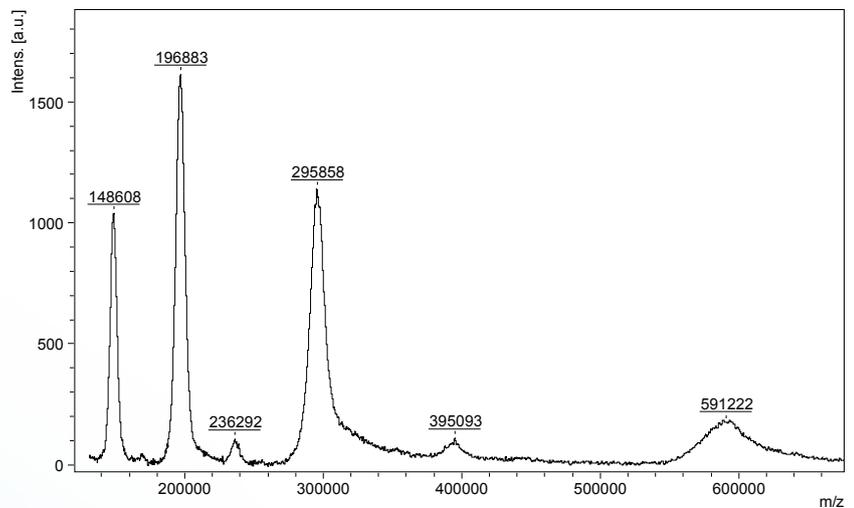
Glycan analysis needs both ionization modes to reveal the entire complexity.



Neutral glycans are detected in positive mode whereas acidic glycans can only be detected in negative mode.

Wide mass range

The smartfleX supports QC applications and is well suited for fast molecular weight determinations in your routine applications whilst addressing a wide mass range.



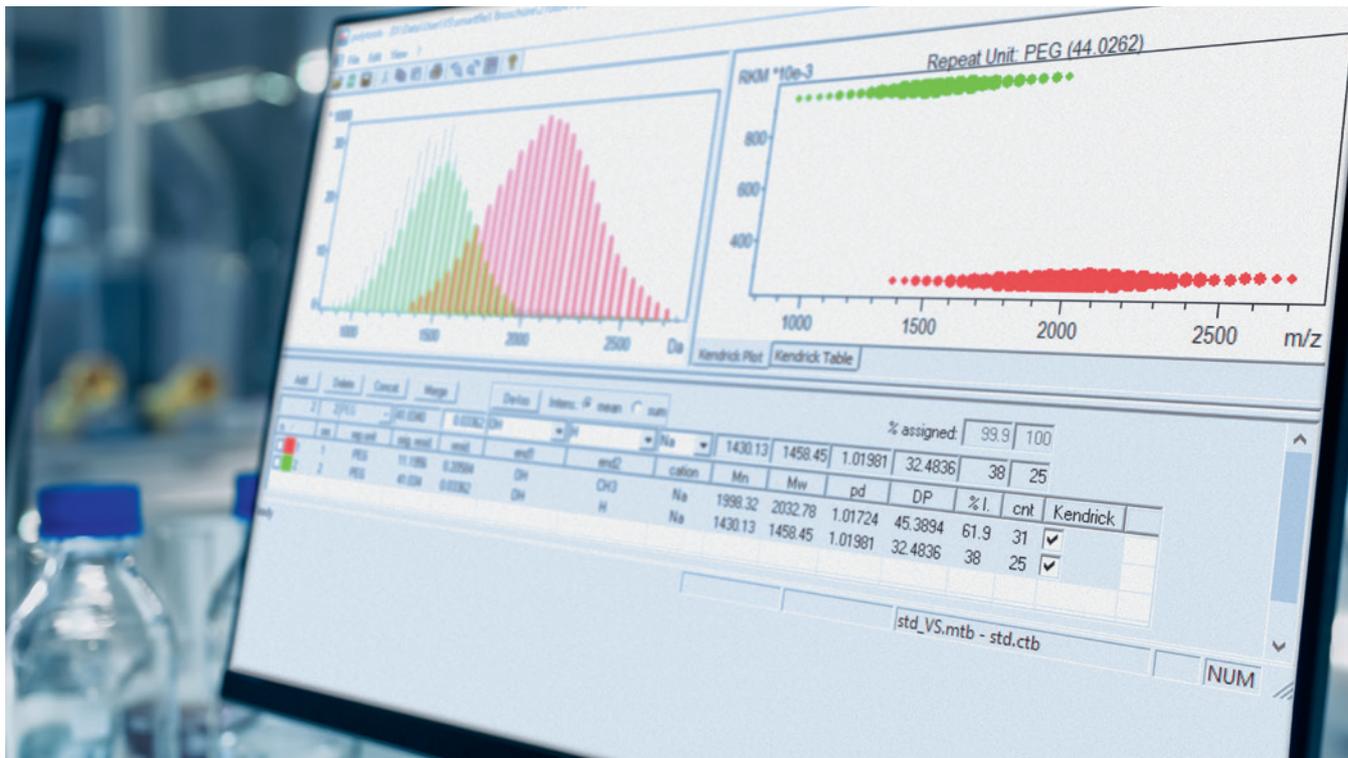
MALDI-TOF positive mode spectrum of polystyrene 550 kDa

Automated polymer analysis

Polymer QC with the smartfleX

Seamless data analysis with PolyTools software allows for efficient determination of polymer characteristics. PolyTools automatically calculates Mn, Mw and end groups. A variety of result displays, including Kendrick

mass plots, facilitate convenient spectra interpretation. Parameter sets can be easily customized for specific polymers enabling recurring routine QC batch analysis.

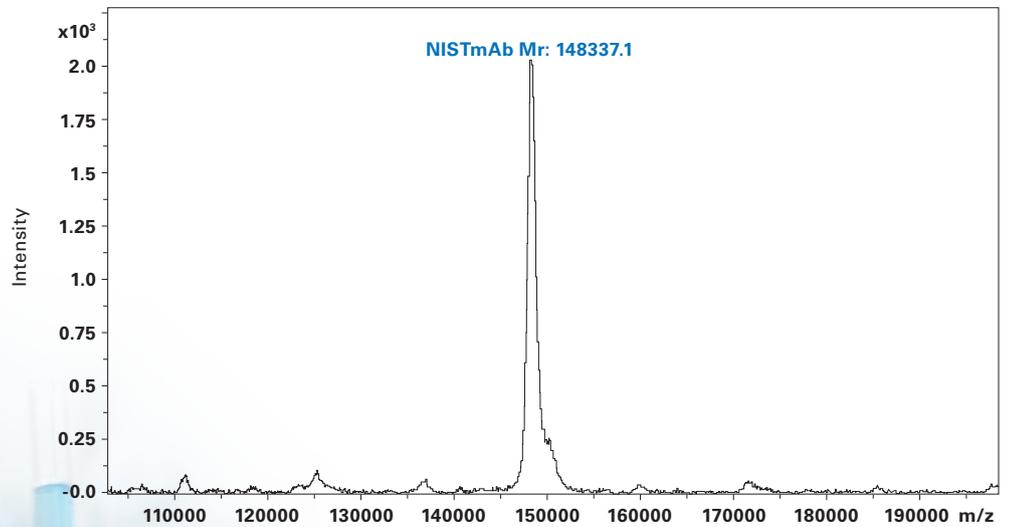


Analysis of a PEG mixture in PolyTools: the spectrum as well as the plot of the remainders of Kendrick Mass show the presence of the two distributions corresponding to PEG and mPEG.

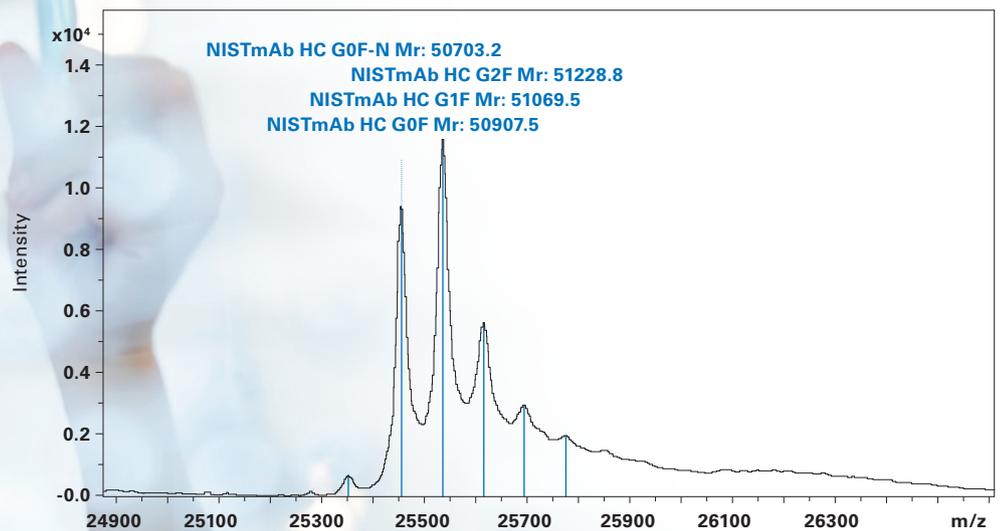
Quality control applications

Production of therapeutic proteins like monoclonal antibodies can be quickly monitored using the smartfleX. Minutes of sample preparation followed by seconds of

data acquisition will get the answers you need regarding protein mass and sample purity.



MALDI spectrum of intact antibody



Glycoprofile analysis of the [NISTmAb HC]₂⁺ calculated in BioPharma Compass





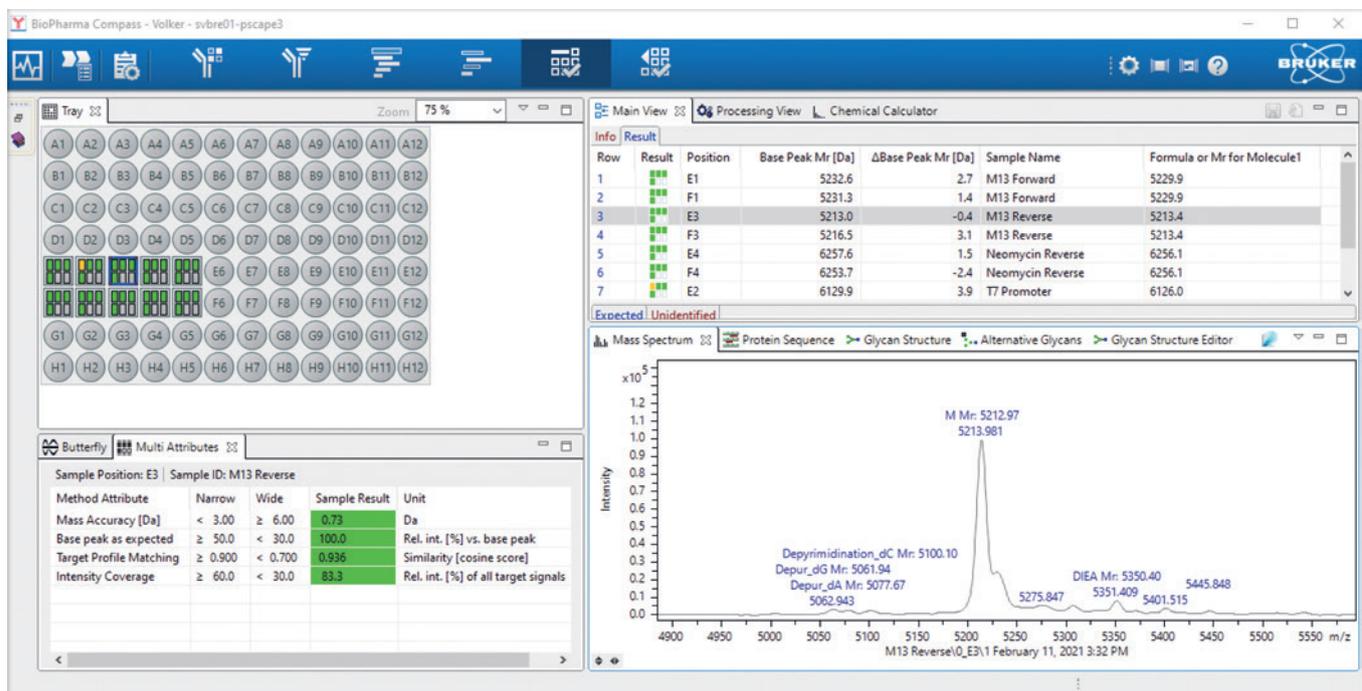
Quality control made fast and easy

Analysing hundreds or thousands of samples a day is a challenge QC laboratories face. Incoming goods need to be checked, a variety of compound classes such as peptides, proteins, oligonucleotides or lipids need to be addressed. With the smartfleX QC has never been easier. Compound molecular weights are verified instantly and multiple critical quality attributes (QCAs) can be automatically assessed and reported using a traffic light report to accelerate data analysis in the BioPharma Compass software.

Productivity at your hands

The ¼-MTP sized targets with 96 spots allow for seamless QC adaptation to your microtiter plate-based workflows.

Combined fast target plate exchange and low downtime due to ion source cleaning with a dedicated IR laser allows for even quicker analyses - all geared towards higher productivity for your lab.



Oligonucleotide QC result representation in BioPharma Compass

Bruker's MALDI-TOF Solutions

Simple, Straightforward and Specific



Video: [MALDI-TOF Process](#)

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