

MALDI-TOF MS

Request*
 Order*

*(please tick the corresponding field)

Anagnostec

Gesellschaft für Analytische Biochemie und Diagnostik mbH
Am Mühlenberg 11
D-14476 Potsdam OT Golm

Tel. +49 331 23 73 52 10
Fax +49 331 23 73 52 20
E-mail anagnostec@anagnostec.de
Homepage www.anagnostec.de

Your Details

Name/Address:

Tel. No.: Fax:

Date: E-mail:

Sample Information

Sample name:

Sample type:
(product of synthesis, extract, HPLC-fraction, plant cells, microbial biomass...)

The sample is in solution. ⇒ Concentration [mg/ml]:
Solvent used:
Sample buffer used:

The sample is not in solution. ⇒ Sample weight [mg]:
Suitable solvents:

The sample is purified or not purified.

The sample is toxic explosive hygroscopic
 sensitive to air sensitive to light harmless

Sample storage: RT 4 °C -20 °C -80 °C

At pH 2-3 the sample is stable or unstable.

Molecular weight (if known): Totals formula:

Mass range of interest: to Da

Standard provided? yes no
When yes, full description/totals formula:

Method of Measurement

- Only determination of molecular weight (natural products/quality control: **300-2.000 Da** in reflector mode)
- Only determination of molecular weight (microorganisms: **2.000-20.000 Da** in linear mode)
- Only determination of molecular weight (proteins: **10.000-100.000 Da** in linear mode)
- Fragmentation in the mass range to m/z=2.000 (only after consultation)
- Special measurements (only after consultation)

Notes/Questions

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Signature:

Note: Please note the demands on the samples given below.

Sample Preparation for MALDI-TOF Mass Spectrometry

Samples for MALDI-TOF analysis need to meet certain requirements for obtaining good spectra. The more careful you prepare samples (including early steps of isolation and preparation) the more likely a successful analysis will be. Here are some guidelines of which kind of treatment is advantageous for mass spectrometric analysis.

- Please do not use polyethylene glycol (PEG) and polypropylene glycol (PPG).
- The sample must be at low-salt (under 50 mmol) and if possible largely without buffer.
- The sample must be glycerol-free.
- When you send us bacteria grown on agar plates we also require a control sample of agar.
- When you send us mutants we also require the wild types as control sample.

For the MALDI-TOF mass spectrometry please send us bacteria grown on agar plates (colonies must be recognisable), more than 100 µg dry cells, more than 10 µl extract, pure substances in µg-quantities or other biological material (e.g. freeze-dried leafs, tissue).

For quantities of more than 10 samples please send us your sample names in the form of an Excel-table.