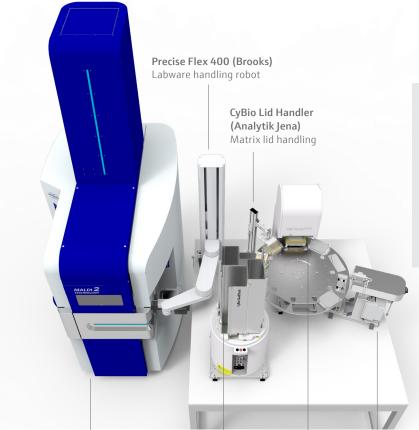
Automated High Throughput Screening uHTS MALDI Sample Preparation





The Perfect MALDI-MS Solution

Analytik Jena and Bruker collaborated to develop a liquid handling automation solution for drug discovery screening. This solution combines the label-free detection capabilities of mass spectrometry with automated uHTS MALDI sample preparation. It enables ultra-high throughput screening with the integrated MS System timsTOF MALDI PharmaPulse® from Bruker.



Why our solution is unique and unavoidable

- True ultra-high throughput capability: Enables screening of 1.000.000 samples/week, and even more
- Unique process: Outstanding analysis results due to on-target washing (desalting)
- Excellent sample quality: Small assay volume and homogenous spot precision

timsTOF MALDI PharmaPulse® (Bruker) Mass spectrometer CyBio QuadStack (Analytik Jena) Storage MALDI sample plates CyBio Active Dryer (Analytik Jena) Sample spot dryer

CyBio Well vario 1536 (Analytik Jena) Multichannel pipettor

The label-free screening process with the integrated MS system timsTOF MALDI PharmaPulse® from Bruker enables reading rates of up to 3 wells per second at ultimate assay specificity and sensitivity.

Up to 1536 matrix and sample transfers onto MALDI target plates can be performed in parallel using the flexible Analytik Jena platform. This process enables high-throughput MALDI plate preparation in less than 10 minutes.

Analytik Jena's Automated High-Throughput MALDI Preparation

The automation specialists from Analytik Jena have developed an automated solution to increase throughput, assay robustness and reliability of MALDI-TOF sample preparation.



MALDI Studio: Advanced Workflow Programming

The Analytik Jena MALDI Studio programming software is the new way to program your MALDI sample preparation workflow. Due to an intuitive user interface and flexible protocols, an efficient workflow creation is guaranteed.



Easy Workflow Creation

- Predefined process templates for quickstart
- Full flexibility to edit liquid handling steps
- Visualization of parameter settings and workflow steps



Generate Job List for Created Workflows



Define Specific Batch Size and Plate Positions



Define General Labware Parameters and Disk Layout



Your Choice: Possible Levels of Automation

Based on your needs, the sample preparation configuration for your process can be tailored individually.



- Stand-alone workstation for sample preparation
- Available as a module for integration into robotics systems
- Prepares one ready-to-measure sample plate at a time



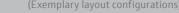
- Advanced stand-alone sample preparation
- Available as a module for integration
- Adds automated source and target plate storage for batch operation



- MS interface for automated plate loading and unloading
- Includes customizable plate storage
- For use with spatially separated sample preparation



- Fully automated MALDI workflow from sample preparation to MS result
- High process autonomy for ultra-high throughput screening
- Integration of additional functional components upon request



Your Partner in Automation Solutions

Analytik Jena Automation stands for laboratory automation equipment tailored to the processes and needs of our customers. Whether lab bench automation or a fully integrated solution, we support you to increase the quality, efficiency and reliability of your laboratory processes.



Our automation specialists will be happy to advise you on your projects.

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