

Automation. Integration. Throughput.

timsTOF

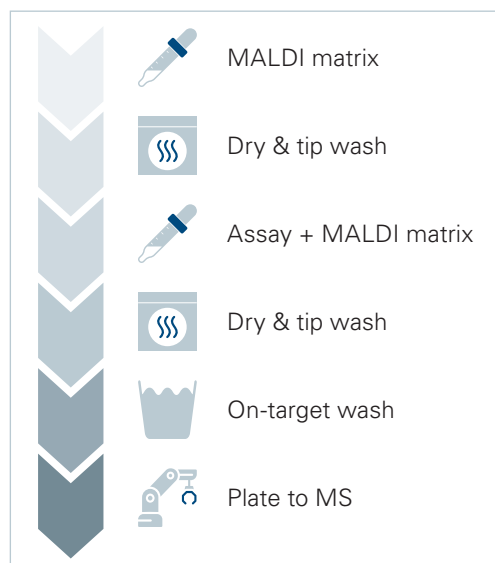
End-to-end workflow support for label-free high-throughput screening accelerating drug discovery

Innovation with Integrity

Deliver high-quality leads at improved screening efficiency in early drug discovery

Screening 10 to 100,000s compounds per day from ever-expanding compound libraries makes a key part of the drug discovery process. As such, high-performance uHTS and HTE techniques are in greater demand than ever.

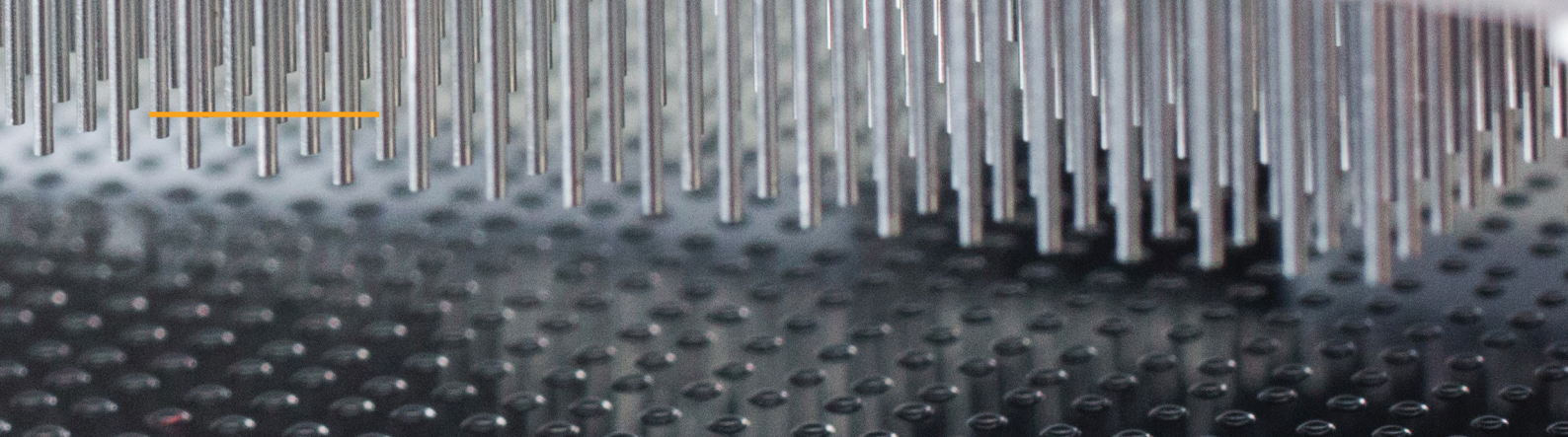
Integrating **Bruker's timsTOF MALDI PharmaPulse®** solution for ultrafast mass-spectrometry based assay read-out with a high-throughput MALDI preparation and automation platform, e.g. **Analytik Jena CyBio Well Vario 1536**, provides seamless **end-to-end workflow support** for label-free uHTS / HTE improving the efficiency in early drug discovery by enhancing lead quality.



CyBio Well Vario 1536

analytikjena
An Endress+Hauser Company

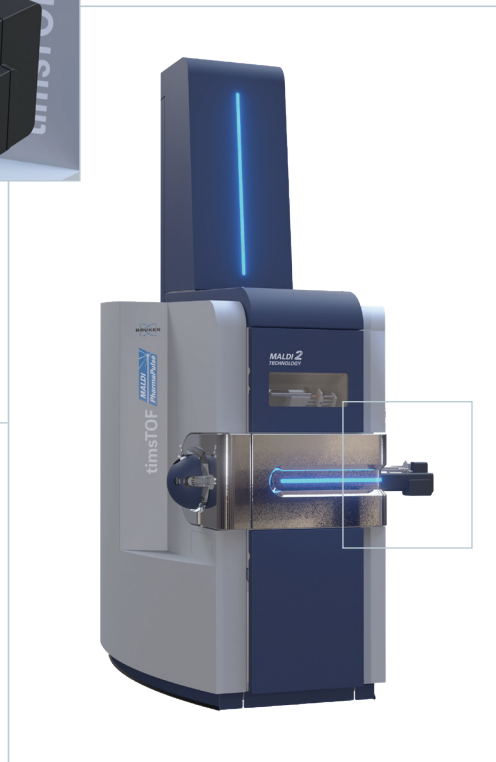
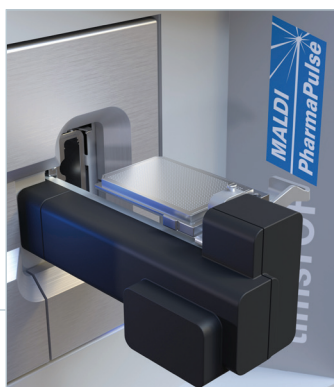
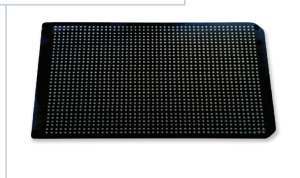
- **High-throughput MALDI preparation** using 1536 multi-channel pipettor
- **Format flexibility** due to 1536 and 384 tip magazines (interchangeable)
- **Reliable, fast and precise spotting** of smallest volume aliquots (down to 100 nL) with vacuum-based active drying (1536 formatted plate prepared in less than 10 min)
- **Space-saving disc design** featuring 10 plate positions including stacking capacity
- **True walk-away system** with varying plate storage capacity and customizable extent of assay automation (e.g. integration with lab robot)
- **Ease of operation** with tailored application software CyBio MALDI Studio



timsTOF **MALDI PharmaPulse**



- **Label-free HTS/HTE read-out** at ultimate level of sensitivity and specificity enabled by timsTOF technology
- **True uHTS capability:** Reading rates up to 3 wells/s
- **Autoloader** for unattended MALDI plate exchange by lab robot
- **Disposable MALDI-HTS plates** supporting any format (96 – 1536, and beyond)
- **MPP 2023:** Dedicated software for seamless campaign setup and execution supporting various uHTS and HTE workflows
- **Integration** with external scheduling software via MPP 2023 automation interface



Learn more about integration of Bruker MALDI PharmaPulse® HTS solutions with the Analytik Jena CyBio Well Vario 1536 liquid handling & automation platform:

Automated MALDI Target Preparation Concept: Providing Ultra-High-Throughput Mass Spectrometry-Based Screening for Drug Discovery

Winter, M.; Ries, R.; Kleiner, C.; Bischoff, D.; Luippold, A. H.; Bretschneider, T.; Buettner, F. H.

SLAS Technology 2019, <https://doi.org/10.1177/2472630318791981>

MALDI-TOF Mass Spectrometry-Based High-Throughput Screening for Inhibitors of the Cytosolic DNA Sensor cGAS

Simon, R.P.; Winter, M.; Kleiner, C.; Ries, R.; Schnapp, G.; Heimann, A.; Li, J.; Zuvella-Jelaska, J.; Bretschneider, T.; Luippold, A.H.; Reindl, W.; Bischoff, D.; Büttner, F.H.

SLAS Discovery 2020, <https://doi.org/10.1177/2472555219880185>

MALDI-TOF-Based Affinity Selection Mass Spectrometry for Automated Screening of Protein-Ligand Interactions at High Throughput

Simon, R.P.; Winter, M.; Kleiner, C.; Wehrle, L.; Karnath, M.; Ries, R.; Zeeb, M.; Schnapp, G.; Fiegen, D.; Häbe, T.T.; Runge, F.; Bretschneider, T.; Luippold, A.H.; Bischoff, D.; Reindl, W.; Büttner, F.H.

SLAS Discovery 2020, <https://doi.org/10.1177/2472555220959266>

For Research Use Only. Not for use in clinical diagnostic procedures.

Bruker Daltonics is continually improving its products and reserves the right to change specifications without notice. © BDAL 11-2023, 1905620

Bruker Switzerland AG

Fällanden · Switzerland
Phone +41 44 825 91 11

ms.sales.bdal@bruker.com

bruker.com

Bruker Scientific LLC

Billerica, MA · USA
Phone +1 (978) 663-3660

Scan the QR-Codes for more Details



bruker.com



analytik-jena.com