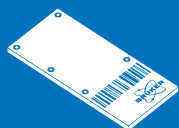


Trapped Ion Mobility Mass Spectrometry

Next generation ion mobility separation with high sensitivity and robustness

From the trusted family of UHR QTOF systems to the revolutionary separations orthogonality advantage of the timsTOF systems, critical sample details are delivered with speed and sensitivity. Ion mobility is a powerful extension to mass spectrometry that delivers information about the three dimensional structure of an ion, and increases peak capacity and confidence in compound characterization.

timsTOF fleX Solutions



IntelliSlides - Maximize information content per pixel with intelligence

Perfect for SpatialOMx - Bruker's IntelliSlides™ simplify your MALDI Imaging workflows by enabling automated setup of each measurement. IntelliSlides incorporate permanent inscriptions that indicate optimal placement of samples, registration marks (also known as teach marks or fiducials) that make automated sample registration possible, as well as providing a unique slide identifier for software tracking. IntelliSlides are the optimal tool for increasing measurement efficiency and throughput for any MALDI Imaging study. Your effortless time-to-result for MALDI Imaging has never been faster.

timsTOF series

With timsTOF, Bruker introduces the next generation of ion mobility mass spectrometry. Trapped ion mobility spectrometry (TIMS) unlocks an additional dimension of separation and delivers revolutionary improvements in enhanced specificity and high sensitivity. The timsTOF Pro 2 with PASEF technology enables fast scanning speeds, unlocking MS-based proteomics for the identification and quantification of thousands of proteins. The new timsTOF SCP is fully PASEF enabled and maximizes ion transfer with a new source geometry up to five times. Expanding the horizons for single cell proteomics and unbiased immunopeptidomics. The timsTOF fleX, brings Bruker's powerful MALDI technology to the portfolio, adding a high-resolution spatial dimension and enabling the field of SpatialOMx on one platform for the first time.



	Basic	Pro 2	fleX	fleX with MALDI-2	timsTOF SCP
resolution:			60,000		
scan speed:	1-50 Hz (MS & MS/MS)	1->100 Hz (MS & PASEF)	1->100 Hz (MS & PASEF)	1->100 Hz (MS & PASEF)	1->100 Hz (MS & PASEF)
acquisition:	CID	PASEF	PASEF	PASEF	PASEF
source:	ESI	ESI	ESI and MALDI smartbeam 3D	ESI and MALDI smartbeam 3D	ESI
size [mm]:	980 x 1400 x 2570	980 x 1400 x 2570	980 x 1400 x 2570	980 x 1400 x 2570	1230 x 750 x 1990
MALDI mode (rel. intensity):			1 (Cholesterol) 1 (Vita- min D)	>200 (Cholesterol) >1000 (Vitamin D)	



fleXmatrix - The key to success in MALDI MS analyses

fleXmatrix for MALDI Imaging of proteins, peptides, and lipids are especially developed and qualified for use on all of Bruker's MALDI mass spectrometry imaging systems. Pre-portioned and packaged in convenient tubes, fleXmatrix is stable and easy to handle to simplify sample preparation, particularly for standard TM Sprayer methods. Bruker's high quality fleXmatrix was created to fulfill the demanding requirements of today's applications to ensure accurate results and maintain system cleanliness. High quality, high purity matrix avoids the introduction of artifacts and adduct ions that can interfere with data analyses and interpretation. Also introducing fleXmatrix for MALDI-2. Developed especially for high-sensitivity MALDI-2 experiments, fleXmatrix for MALDI-2 is vacuum stable and can be used as a calibrant for low molecular weight measurements.