

MOBIE®



REVEALING WHAT OTHERS LEAVE UNSEEN™



MOBILion Systems

Disrupting Separation Science

MOBILion Systems is disrupting the separations game, enhancing the way we characterize bio-therapeutics and identify biomarkers. Our best-in-class SLIM-based High-Resolution Ion Mobility Mass Spectrometry (HRIM-MS) instruments separate and identify molecules that current platforms fail to detect – with faster analysis and simpler workflows.

The result? Filling characterization gaps, bringing biologic drugs to market faster, and accelerating biomarker discoveries.

Meet MOBIE®

The Next Generation of Ion Mobility Mass Spectrometry



Tomorrow's Miracles Start Today with MOBIE®

Eliminate the trade-off of resolution for speed that has become the status quo for liquid chromatography based methods. Now is the time to reveal what others leave unseen with workflows that offer superior resolution, rapid and reproducible results, faster method development, and simple method transfer.

Equip yourself with one powerful tool to unleash opportunity with MOBIE, offering best-in-class separations without trade-offs.



HIGHER RESOLUTION

MOBIE separates and identifies molecules other instruments fail to detect, with unprecedented resolution.



A NEW LEVEL OF THROUGHPUT

Perform analysis in minutes, not hours. Run 1,000 samples/week vs. 1,000 samples/year. Get information to make decisions faster.



SIMPLIFIED WORKFLOWS

Reduce reliance on liquid chromatography with digitized separations and easily transferable methods. Reduce human errors and costs while increasing instrument uptime.

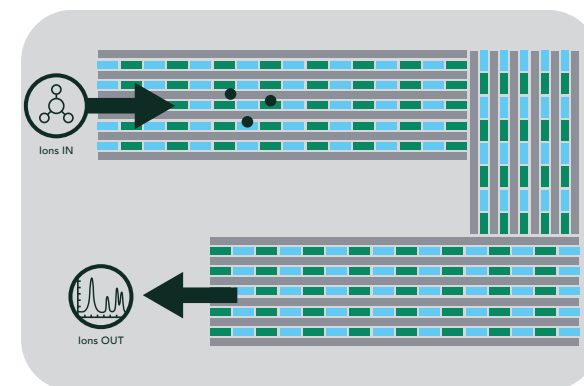
The Skinny on SLIM

SLIM-based HRIM is the driving technology behind MOBIE. SLIM stands for Structures for Lossless Ion Manipulation, pioneered by world-renowned physical chemist Dr. Richard D. Smith. SLIM provides unprecedented capability to efficiently and reproducibly separate and detect biologically relevant molecules.

By using an ion path 12 times longer than other ion mobility technologies, the chance of separating molecules based on size and structure is greater. But how do you fit a 13-meter ion path into the lab?

Make ions turn corners instead of traveling on a straight path. Propelled by electric fields, ions can travel losslessly along a serpentine path without striking surfaces, enabling unprecedented separation and resolution.

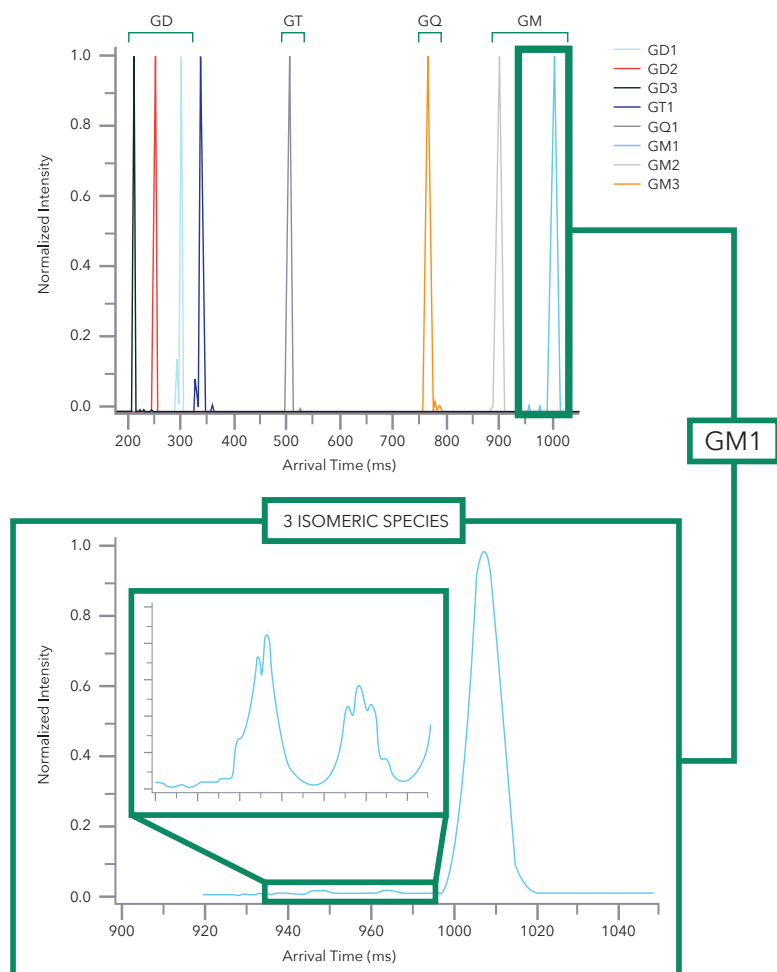
With MOBIE, ions travel along a 13-meter pathlength, the longest in the industry – all in a device about the size of a briefcase.



MOBIE®

12 Meters Ahead of the Rest

MOBILion is decisively unraveling the subtleties of complex diseases and their potential therapies – quicker, easier and in a much smaller footprint. Our 13-meter ion path allows for unparalleled resolution of complex molecules like glycans and lipids, providing baseline separation with more complete structural information in just two minutes.

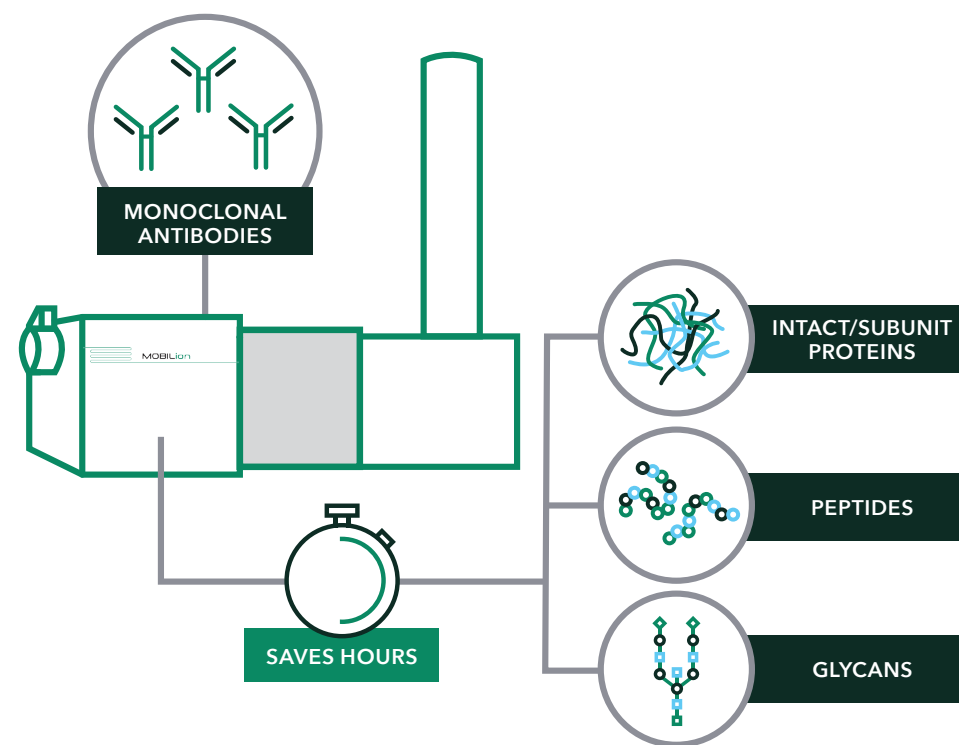


Baseline separation of 8 common gangliosides with the ability to resolve isomeric species.

Hurrah for HRIM

Thanks to HRIM, MOBIE lets you characterize biologics like never before, with extreme resolution, speed, and reproducibility.

Run routine characterization assays in minutes on a single instrument. Perform intact and subunit analysis in two minutes, peptide mapping in under 20, and released glycan analysis in just two minutes. Save time, space, resources – and gain more structural information that other platforms cannot provide.



MOBIE's software-driven digital separations allow for simpler and faster method development using instant information from the real-time display.



Revealing What Others Leave Unseen™

Get better, faster, more reproducible results with MOBIE®.

Contact us to learn more, schedule a demo, or get a quote.

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