



VIP-HESI

microFlow Emitter

Part of the Bruker Ecosystem

Micro-flow liquid chromatography-mass spectrometry (LC-MS) represents an optimal compromise between the heightened sensitivity of nano-flow and the superior robustness of analytical-flow systems.

It harnesses the best of both worlds to deliver unparalleled performance, making it the perfect solution for high-throughput applications where uncompromising quality and efficiency are critical.

Micro-flow LC-MS is the ultimate game-changer for hundreds of consecutive LC-MS runs, enabling you to achieve your goals with unmatched precision and speed.



Dr. Johanna Tüshaus
Research Scientist, Küster Group,
Technical University Munich, Germany

“Planning a large-scale proteomic profiling project, we were in need of a fast, sensitive and robust LC-MS/MS setup. Coupling our well-established micro-flow LC technology via the VIP-HESI source to the timsTOF HT turned out to be a powerful combination. It enables deep proteome coverage using short gradients thereby linking speed with sensitivity. The development of the microFlow Emitter was key to boost the sensitivity of our micro-flow LC timsTOF setup.”



Dr. Mukul K. Midha
Research Scientist, Moritz Group,
Institute for Systems Biology, Seattle, USA

“To conduct statistical significant large-scale quantitative proteomics experiments, it is essential to have highly stable electrospray conditions. The Bruker VIP-HESI delivers the required reproducibility for complex samples like plasma. The source hardware connections are straightforward, the source parameters easy to optimize, and the spray stability is superb. The outcome of these improvements are increased sample throughput, 100% uptime rate, and precise protein quantification.”

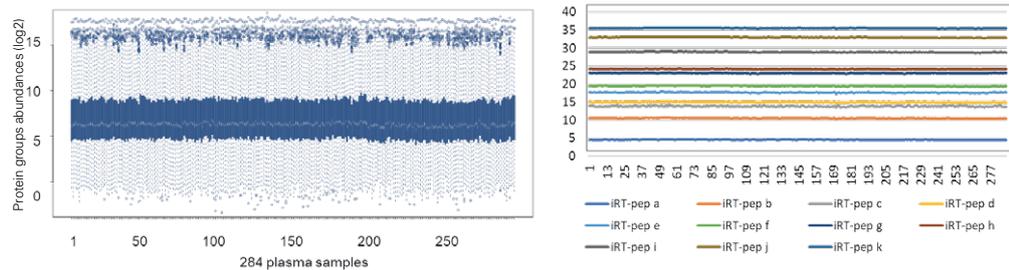


Figure legend:

dia-PASEF® proteomics analysis in a mouse plasma study showing distribution of low (un-normalized) protein quantities acquired using VIP-HESI source, signifying robustness in the acquisition with a good ionization spray stability.

Dr. Daniel Itzhak
Director, Mass Spectrometry
Altos Labs, Redwood City, USA

The microFlow Emitter for the VIP-HESI source enables us to improve sensitivity of lipidomics analysis while maintaining throughput and robustness on the timsTOF platform.

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