

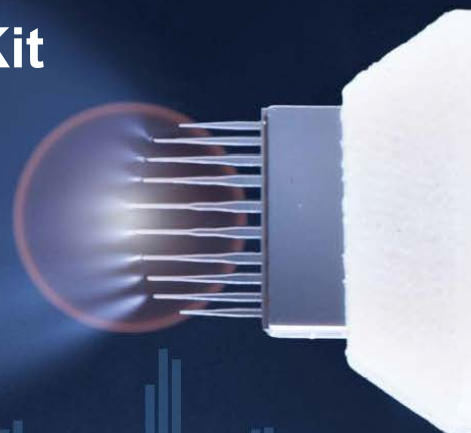
Multiply Your Mass Spectrometry Performance



Newomics® Flow Splitting Kit

An "Add-on" for MnESI Platform to Enable

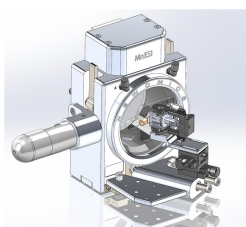
- High Throughput
- High Sensitivity
- Robustness
- Plug-and-Play



Microflow LC-Nanospray MS

Introducing the Flow Splitting Kit from Newomics. The Flow Splitting Kit offers flexible configurations to seamlessly integrate Newomics MnESI-MS (Microflow nanospray ESI-MS) platform to your analytical LC/MS workflows. Newomics MnESI-MS platform features the MnESI source and the award-winning M3 multinozzle emitters to deliver significantly improved LC/MS performance in sensitivity, robustness, and sample throughput.

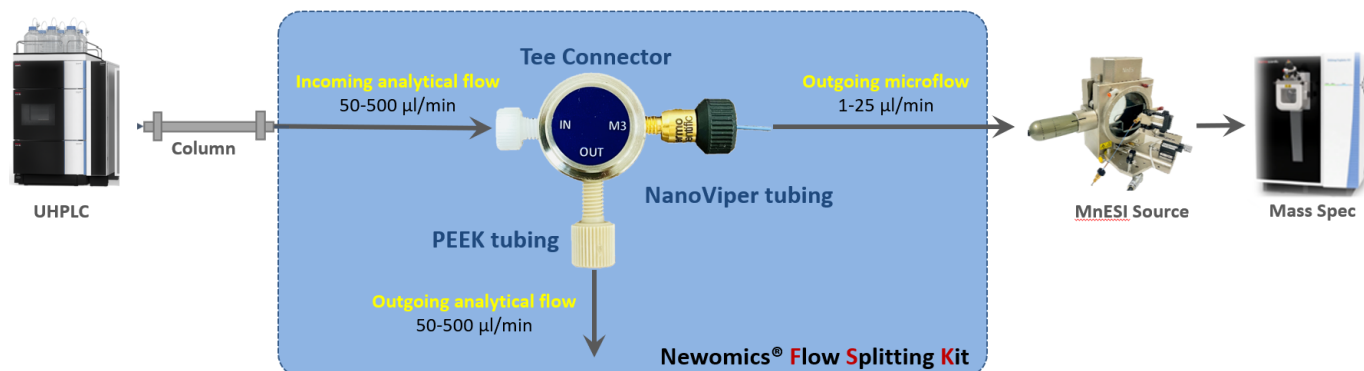
Catalog #	Product	Flow on M3 (µL/min)	Compatible M3 Emitter	NanoViper Included	Splitting Ratios
FSK-01	Flow Spitting Kit for Microflow LC/MS, 1 - 5 µL/min	1 - 5	10 µm ID, 8-nozzle	20 µm ID, 150 mm	1:50, 1:100, 1:200
FSK-02	Flow Spitting Kit for Microflow LC/MS, 5 - 15 µL/min	5 - 15	10 µm ID, 8-nozzle	50 µm ID, 150 mm	1:10, 1:20, 1:50
FSK-03	Flow Spitting Kit for Microflow LC/MS, 10 - 25 µL/min	10 - 25	20 µm ID, 8-nozzle	50 µm ID, 150 mm	1:10, 1:20, 1:50
FSK-10	Flow Spitting Kit for Microflow LC/MS, custom	Custom	Custom	Custom	Custom



Catalog #	Product
IS-T01	MnESI Source for Thermo Scientific New Generation Mass Spectrometers
IS-T02	MnESI Source for Thermo Scientific Legacy Mass Spectrometers
IS-B01	MnESI Source for Bruker Mass Spectrometers

Application: MnESI-MS Platform for Sensitive and Robust Analysis of Intact Antibodies

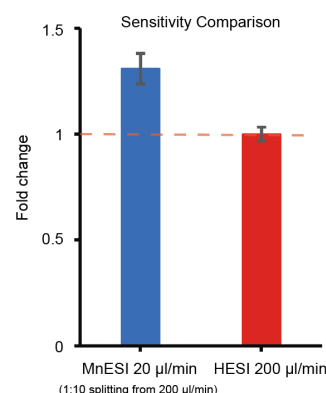
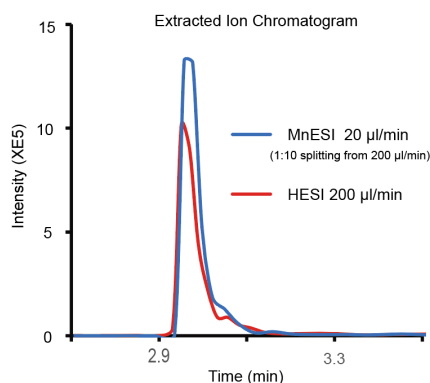
Integration of MnESI platform to the high-flow workflow using Newomics Flow Splitting Kit



- ❖ To improve the sensitivity of a high-flow application, it is easier and less expensive to change to the MnESI ion source with a splitter than it is to change the LC and develop a new method.

HIGHER SENSITIVITY USING NEWOMICS MnESI-MS PLATFORM COMPARED TO HIGH-FLOW METHODS with only a small portion of sample injected into MS

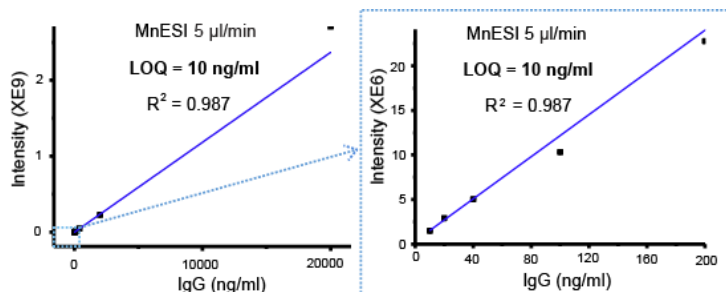
- ✓ Reduce MS contamination
- ✓ Increase sensitivity of legacy methods
- ✓ Broader analytical column selection: better peak shape, reproducible retention time, consistent signal intensity, or higher sample load.



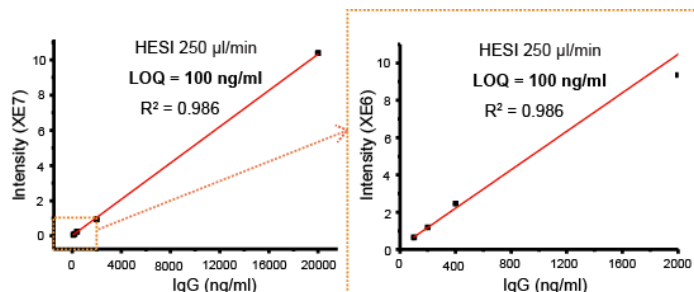
LOWER LIMIT OF DETECTION AND QUANTIFICATION USING NEWOMICS MnESI-MS PLATFORM WITHOUT SPLITTING COMPARED TO HIGH-FLOW METHODS

A 10-fold improvement in LOQ and the wider dynamic range were achieved for MnESI compared to high-flow HESI.

Calibration curve of IgG using MnESI-MS platform at microflow



Calibration curve of IgG using HESI at high-flow



*For details, please refer to Newomics Application Note.