

M5 MicroLC system

The perfect balance of sensitivity
and robustness



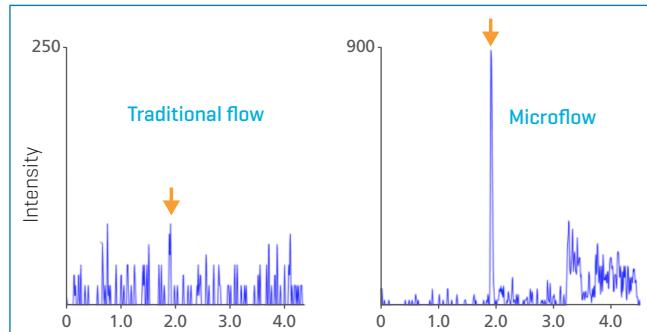
Why microflow?

Microflow technology can provide the perfect balance of greater sensitivity and increased sampling efficiency over traditional analytical flow LC and more flexibility and robustness than nanoflow LC-MS. The sensitivity gains obtainable with microflow over traditional flow LC-MS translate to decreased costs, and achieve the same or better results, all without the complexities related to nanoflow. The M5 MicroLC system is now compatible with SCIEX OS software enabling a more streamlined workflow for your laboratory by simplifying method creation as well as providing more robust communication, increasing instrument uptime.

More sensitivity out of your samples

See more with the M5 MicroLC system

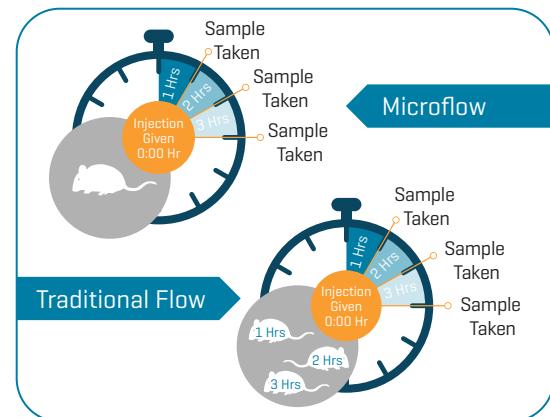
- Trust your quantitative and qualitative data
- Achieve lower limits of quantitation (LLOQ)



The same 10 ng/ml dilution of an infliximab signature peptide run at standard flow [0.8 ml/min] and microflow [8 µl/min].

Less sample needed

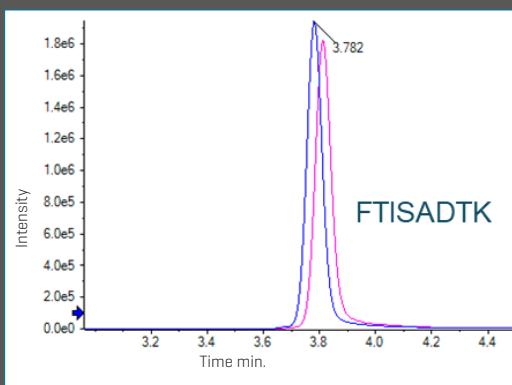
- Obtain multiple time points from a single animal instead of a single time point per mouse for your PK study
- Stop worrying about having sufficient sample to quantitate accurately
- Run more replicates for higher confidence



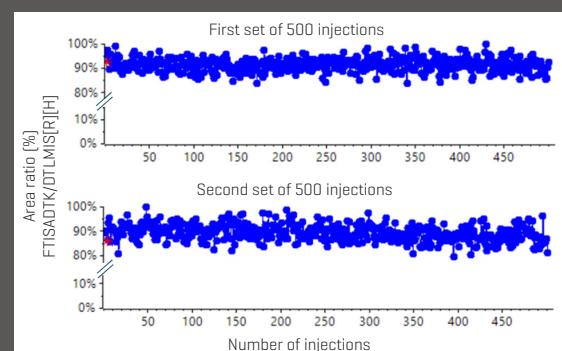
Robustness – Continuous operation you can count on

Trap-and-elute workflow for increased productivity

- Load sample at a high flow rate to reduce total run time
- Desalt online to decrease sample preparation steps
- Reduce downstream contamination, saving on costly column replacement and time spent cleaning the mass spectrometer
- SCIEX OS software integration enables seamless, user friendly access to the SCIEX ecosystem



Identical separation and peak shape over 500 injections of signature peptide FTISADTK



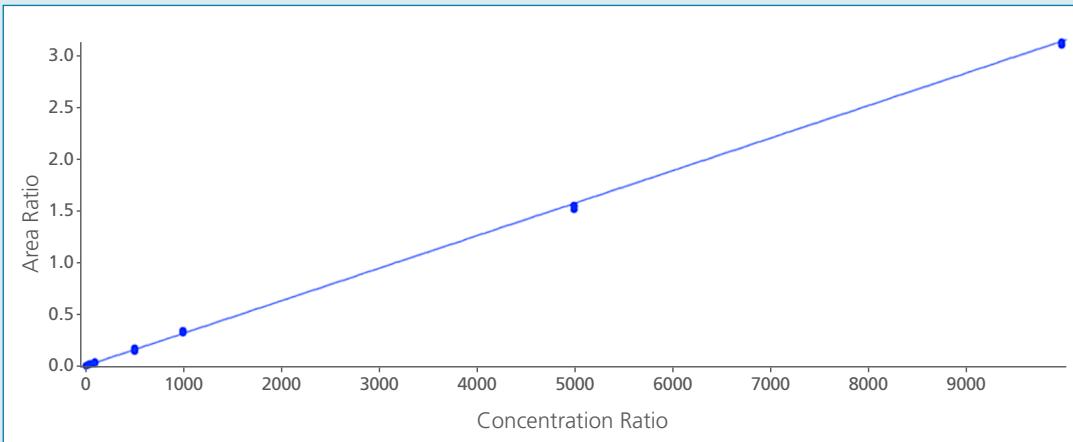
Less than 3.8% normalized peak area CV over 2 sets of 500 injections* with no hardware or software interruptions.

*A total of 1000 injections were divided into two sets of 500 consecutive injections to avoid chromatographic challenges due to the high back pressure on the trap column

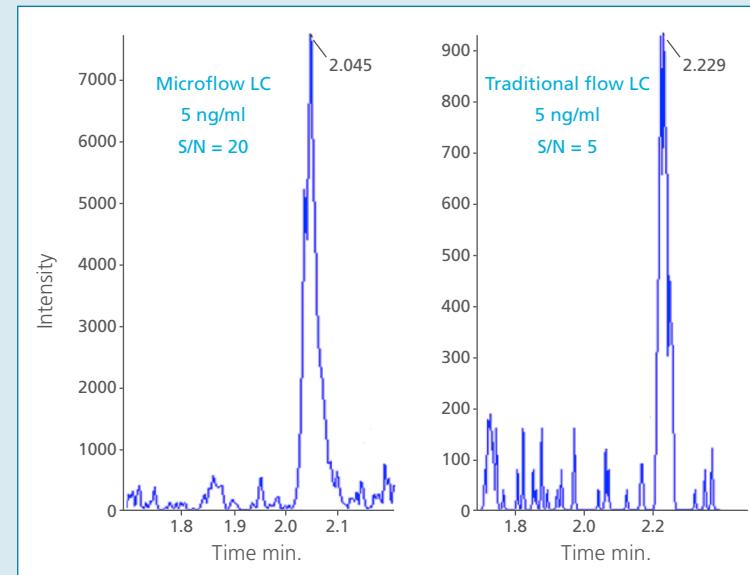
Make the most of your precious sample

Whether you're working with antibodies, hormones or proteins, microflow LC allows you to quantify more reliably with up to better LLOQ

- Move towards accurate quantitation for your toughest analytes with a large linear dynamic range
- Get more reliable results with improved signal-to-noise ratio



Insulin Glargine: The M5 MicroLC system gave 5x lower LLOQ versus analytical flow with linear dynamic range 10 – 10,000 pg/mL.¹



Antibody-Drug Conjugate Ado-Trastuzumab Emtansine: Microflow gave 4x improved signal-to-noise ratio with linear dynamic range 1-100,000 ng/mL.²

References:

1. Quantitation of Insulin Glargine in Human Plasma with a Combination of Immunocapture-Based Target Enrichment and Trap-and-Elute Microflow LC-MS/MS. Sciex Technical Note, RUO-MKT-02-5037
2. Sensitive and Accurate Quantitation of the Antibody-Drug Conjugate Ado-Trastuzumab Emtansine in Rat Plasma. SCIEX Technical Note, RUO-MKT-02-5037



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Headquarters
500 Old Connecticut Path
Framingham, MA 01701, USA
Phone: 508-383-7700
sciex.com

International sales
For our office locations,
please call the division
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