

# M5 MicroLC system

The perfect balance of sensitivity  
and robustness



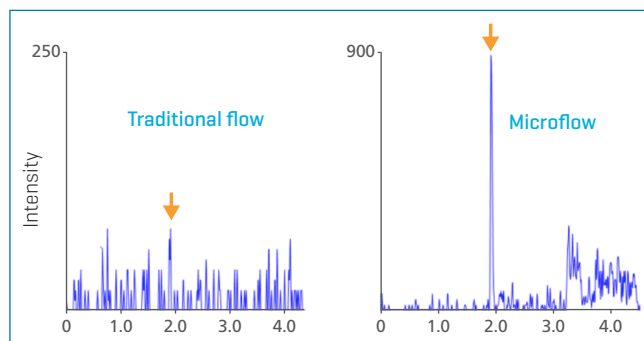
# Why microflow?

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

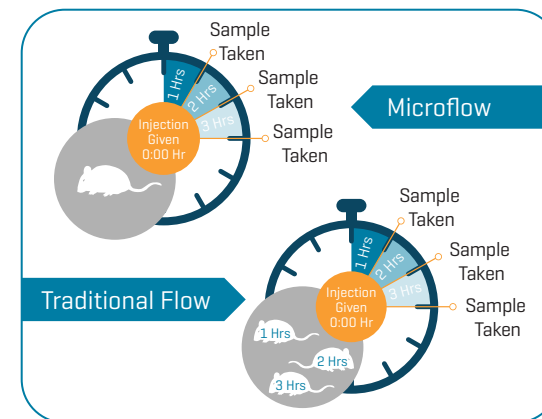
- Trust your quantitative and qualitative data
- Achieve lower limits of quantitation (LLOQ)



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

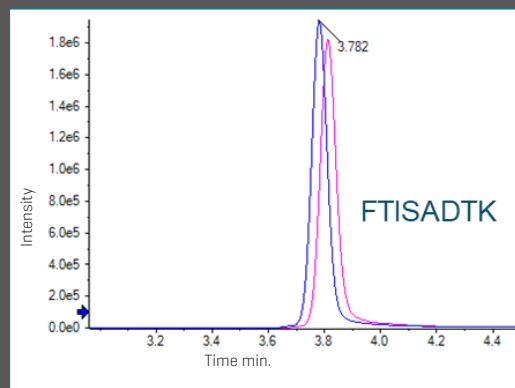
- Obtain multiple time points from a single animal instead of a single time point per mouse for your PK study
- Stop worrying about having sufficient sample to quantitate accurately
- Run more replicates for higher confidence



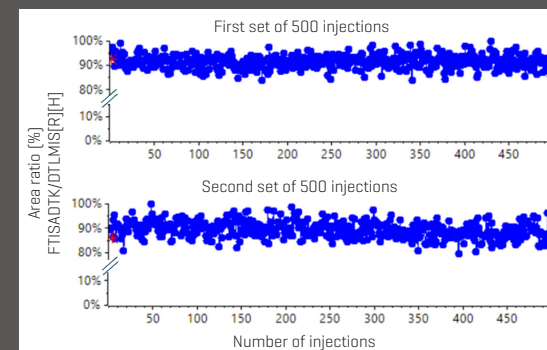
## Robustness – Continuous operation you can count on

### 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



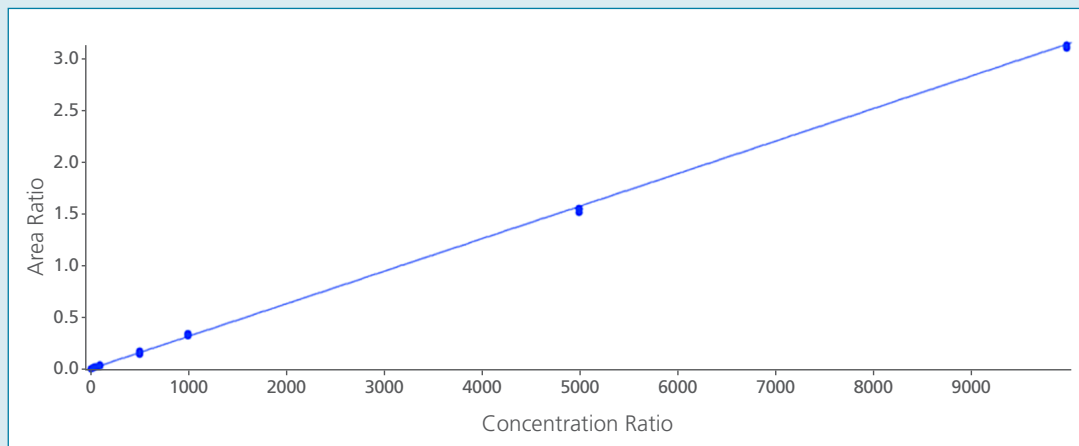
Less than 3.8% normalized peak area CV over 2 sets of 500 injections\* with no hardware or software interruptions.

\*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

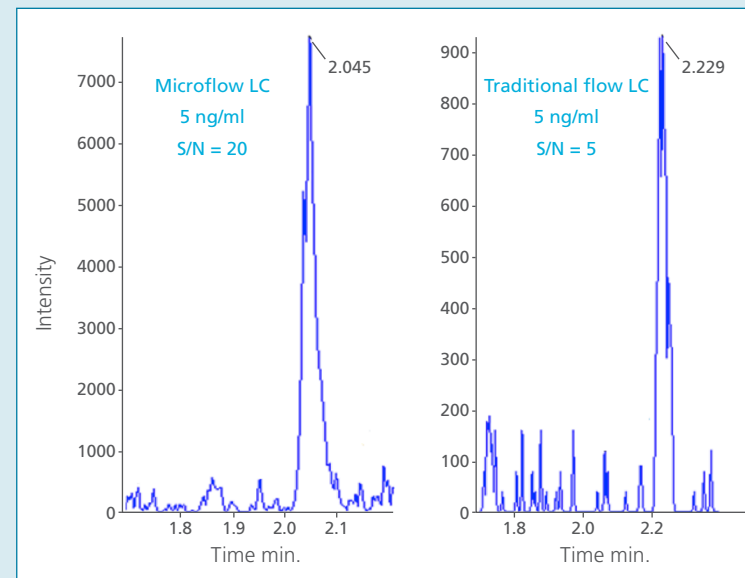
# Make the most of your precious sample

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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