

Why Move to Microflow?



In the drive for better LC-MS sensitivity, scientists are rapidly adopting microflow LC technology. Microflow separations offer the perfect balance of sensitivity and robustness -- offering a powerful sensitivity boost compared to analytical flow assays, but without sacrificing system stability and usability. In addition to gaining sensitivity, microflow LC can translate into reduced costs compared to analytical flow by using less solvents, samples, and reagents- and all without sacrificing assay robustness.

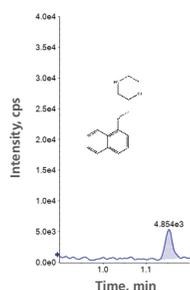
Greater Sensitivity

Less sample is needed per run so you can get more from your samples

See More with Microflow

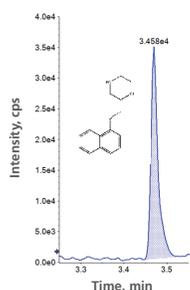
- Greater quantitative and qualitative confidence
- Achieve lower limits of quantitation (LLOQ)

Analytical Flow at 500 $\mu\text{L}/\text{min}$



7x Gain in Signal

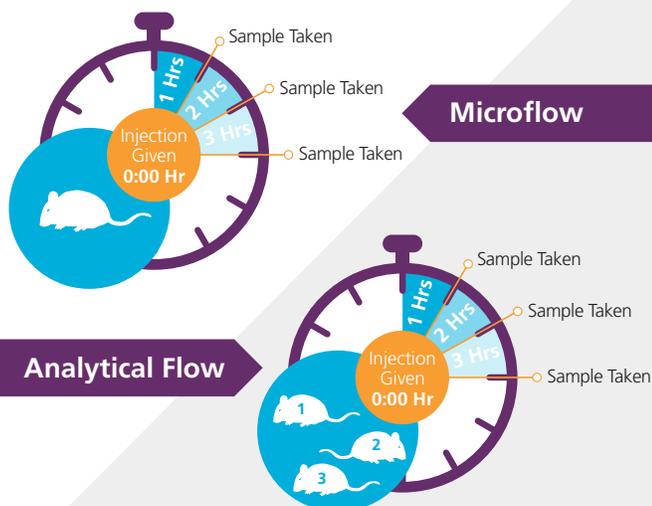
Microflow at 3 $\mu\text{L}/\text{min}$



The same 10 $\mu\text{g}/\text{mL}$ dilution of propranolol analyte run at analytical flow (0.5 mL/min) and microflow (3 $\mu\text{L}/\text{min}$).

Less Sample Needed

- Obtain multiple time points from a single mouse 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



Cost Savings

Microflow LC dramatically decreases consumption of solvents and standards.

Use Up To 250x Less Solvent

Microflow



\$63

Analytical Flow



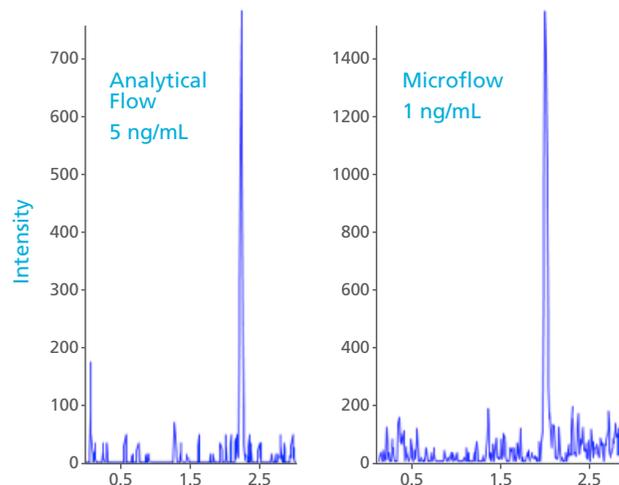
\$16,819

Typical microflow rate:
8 minutes @ 3 $\mu\text{L}/\text{min}$ à
24 μL solvent consumed

Typical analytical flow run:
8 minutes @ 800 $\mu\text{L}/\text{min}$ à
6400 μL solvent consumed

- Assuming continuous operation, and \$40/liter, a user could save over \$16,000 in solvent costs per year!
- Save on solvent waste disposal costs and reduce environmental impact

Use Up To 5x Less Standard



Using microflow, you can use 5x less internal standard, saving you on reagent costs.

Why Move to SCIEX Microflow

Increased sensitivity, reduced sample requirements, flexibility, robustness and cost savings make it easy to understand why so many laboratories are switching to microflow LC for their LC-MS analyses. SCIEX has been providing microflow LC solutions for more than 20 years. The M5 MicroLC is our latest offering, engineered to give you maximum performance, flexibility and robustness for your workflow of choice. See how we can put the M5 MicroLC to work for you.

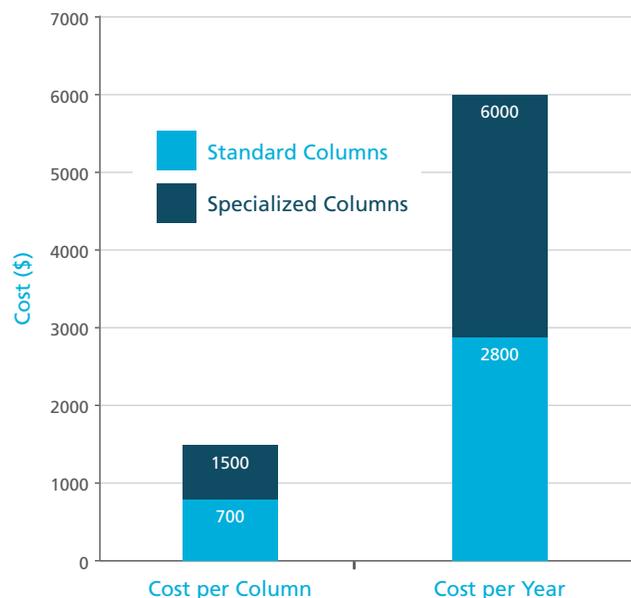
Greater Flexibility

Don't Put Your MicroLC Under Lock and Key

Save Money by Avoiding Expensive Proprietary Columns

Many competing microflow LC solutions lock you into proprietary solutions with limited column and chemistry choices. Not the M5 MicroLC.

- Use columns from any vendor and any column chemistry of your choice
- Large portfolio of microLC columns from Phenomenex
- Reconfigure your LC plumbing as needed to change/optimize your analysis and workflow
- Use standard sized parts and fittings that can be obtained from your supplier of choice



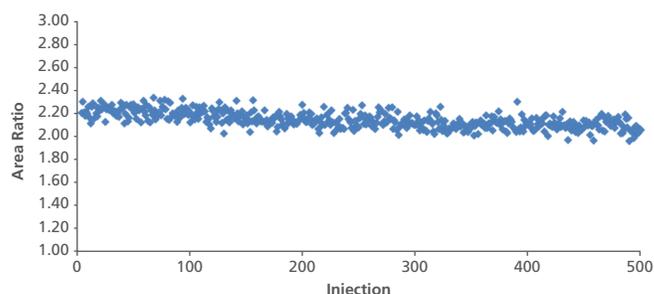
Specialized microflow columns can cost up to 2x that of standard microflow columns, assuming equal lifetimes.

Robustness

Continuous Operation You Can Count On

Trap-and-Elute Workflow for Increased Robustness

- Reduce total runtime by loading sample at a high flow rate on the trap column
- Desalt online to minimize contaminants, reduce costly column replacement and prevent MS contamination



3.0% peak area ratio CV over 500 injections with no increase in back pressure.

SCIEX Microflow

Fully Integrated LC-MS Solutions

A Complete LC-MS Solution

- Industry leading mass spectrometers
- Integrated hardware and software solutions for regulated environments
- Global support, training, and service network



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