

FlipLC™

INTELLIGENT MATRIX ELIMINATION

DURING HPLC SEPARATION



Analyze what matter.
Eliminate what interferes.
Protect columns. Reduce solvent waste.



Cleaner Samples

Remove matrix interferences automatically



Save Time

Reduce interfering matrix components automatically



Lower Costs

Fewer consumables, less solvent usage, less downtime



Protect your column

Prevent contaminants from reaching the analytical column



Better Results

Cleaner peaks, better sensitivity, confident data

ONE VALVE SWITCH.

A COMPLETELY DIFFERENT RESULT.

FlipLC™ dynamically changes the flow path during separation to remove interfering compounds – without interrupting the flow.



No flow interruption



Fully automated

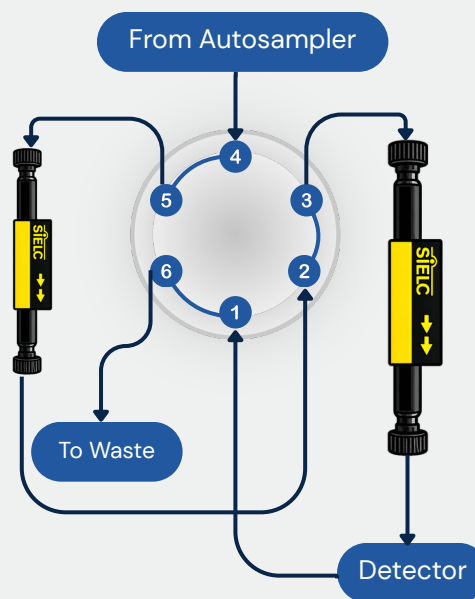


Cleaner peaks



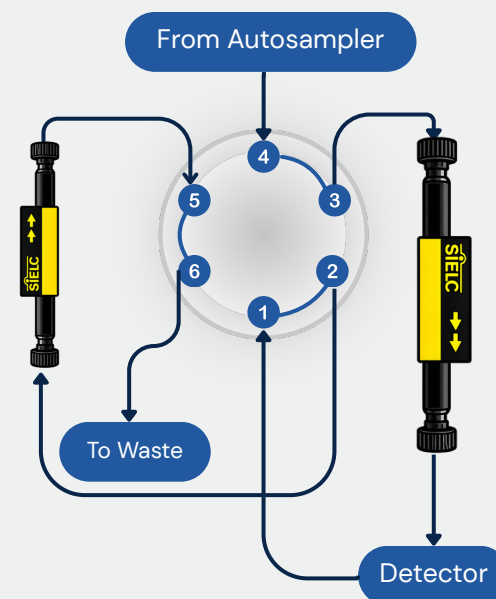
Automated real-time matrix removal

SAMPLE LOADING



Analytes pass to the analytical column. Matrix components are retained on the Flip Column.

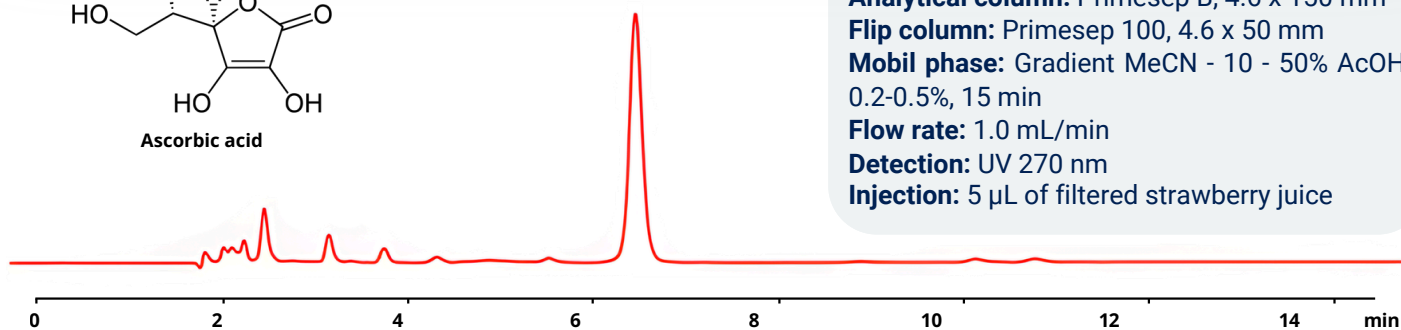
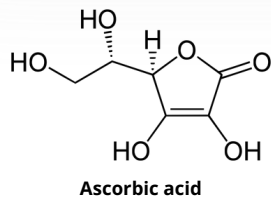
MAIN SEPARATION



The valve switches. Contaminants are back-flushed to waste. Clean separation continues.

SEE THE DIFFERENT

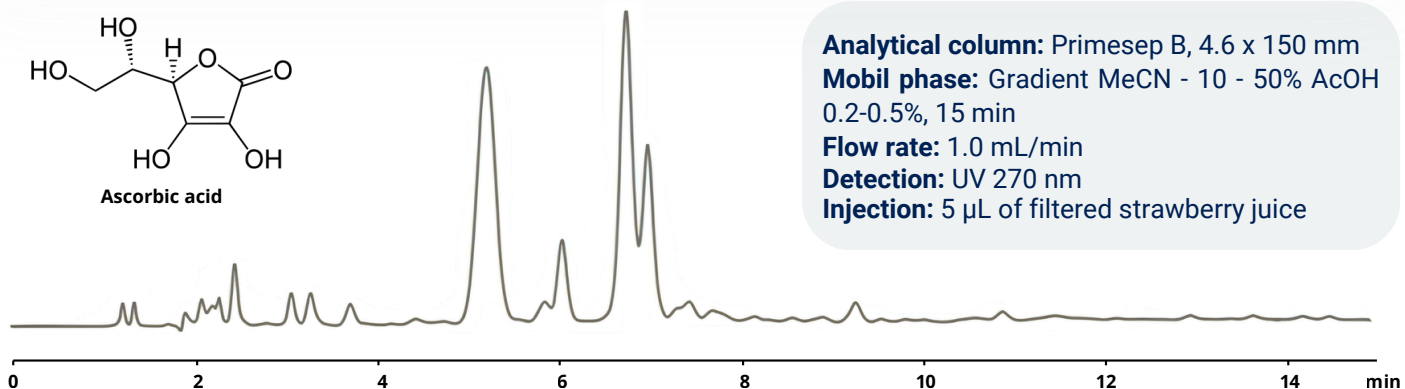
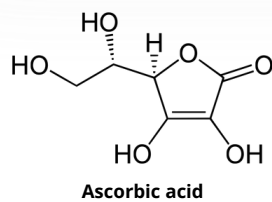
HPLC WITH FlipLC. ASCORBIC ACID IN FOOD



Analytical column: Primesep B, 4.6 x 150 mm
Flip column: Primesep 100, 4.6 x 50 mm
Mobil phase: Gradient MeCN - 10 - 50% AcOH 0.2-0.5%, 15 min
Flow rate: 1.0 mL/min
Detection: UV 270 nm
Injection: 5 µL of filtered strawberry juice



CONVENTIONAL HPLC. ASCORBIC ACID IN FOOD



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Mobil phase: Gradient MeCN - 10 - 50% AcOH 0.2-0.5%, 15 min
Flow rate: 1.0 mL/min
Detection: UV 270 nm
Injection: 5 µL of filtered strawberry juice



FlipLC™ automatically removes interfering matrix components before they reach the analytical column, resulting in cleaner chromatograms and improved analytical confidence.

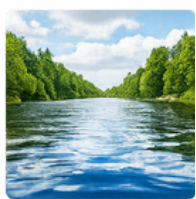
IDEAL FOR A WIDE RANGE OF APPLICATIONS

Food & Beverage



Remove sugars, organic acids, and other matrix components.

Environmental Analysis



Eliminate humic substances and other natural organic matter.

Biological Samples



Reduce proteins, salts and phospholipids for cleaner analysis.

Fermentation Monitoring



Remove media components for accurate metabolite quantification.

Pharmaceutical Samples



Improve method robustness and data reliability.

Industrial Process Streams



Handle complex matrix samples with confidence and stability.