

FlipLC™

INTELLIGENT MATRIX ELIMINATION

DURING HPLC SEPARATION



*Alltesta™ Mini Switching Valve



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
recovery, confident
data

ONE ALLTESTA™ MINI SWITCHING VALVE

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

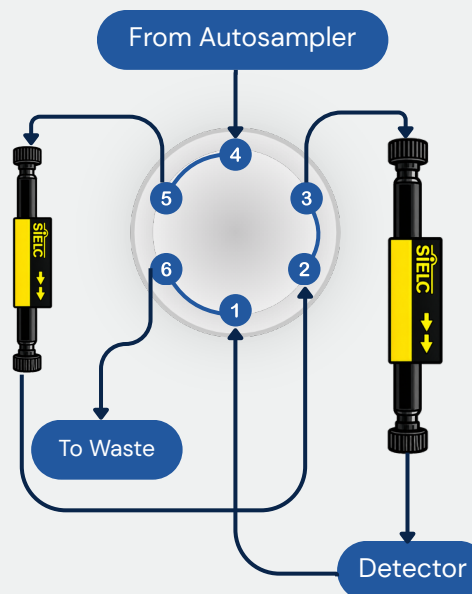


Cleaner peaks



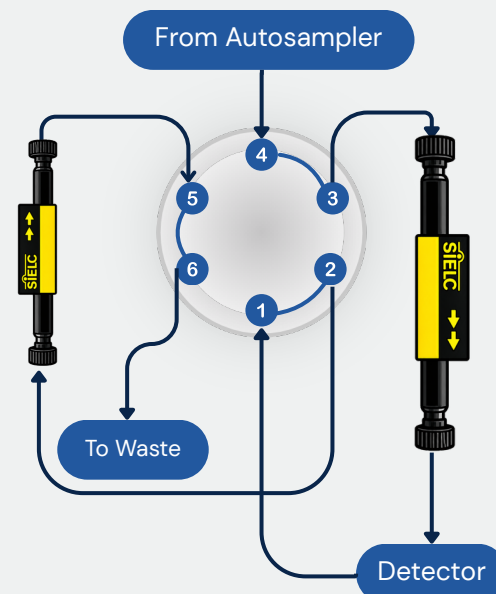
Automated real-
time matrix removal

SAMPLE LOADING



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

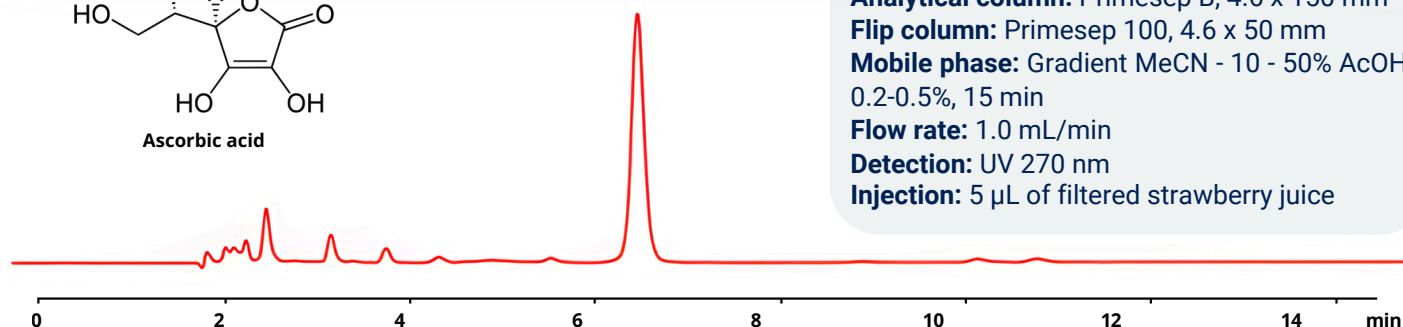
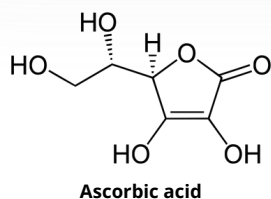
MAIN SEPARATION



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

SEE THE DIFFERENT

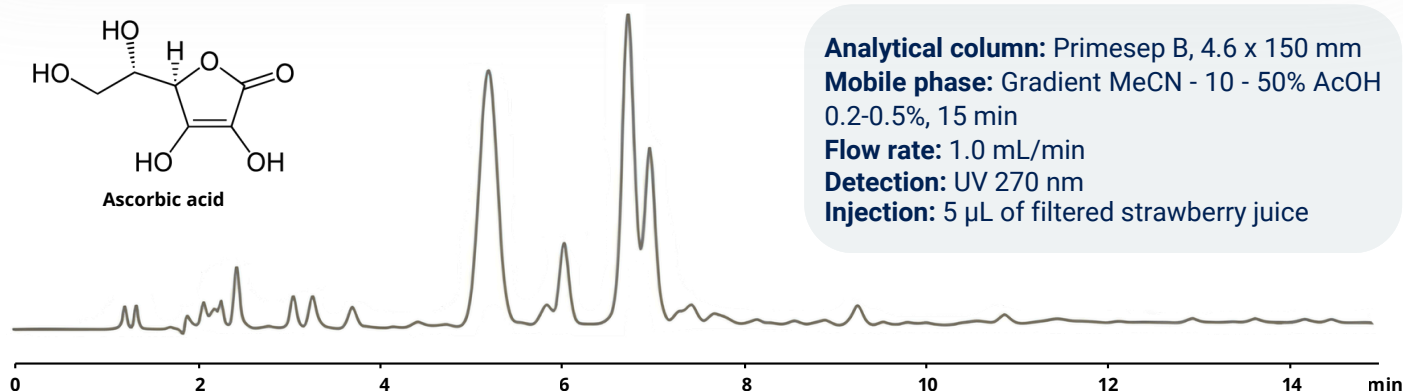
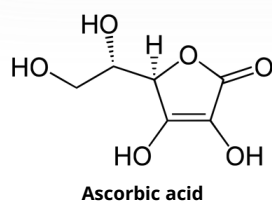
HPLC WITH FlipLC. ASCORBIC ACID IN FOOD



Analytical column: Primesep B, 4.6 x 150 mm
Flip column: Primesep 100, 4.6 x 50 mm
Mobile 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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 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.