

CARTRIDGE OPTIONS

Identify the Ideal Cartridge for Your Axcend Focus LC®





FIXED COLUMN CARTRIDGE (CONT.)



HEATED COLUMN CARTRIDGE (CONT.)

USE CASES

- Routine assays
- Very small sample volumes (4, 10 and 40 nL internal sample loop injection volumes)
- Greatly reduced solvent consumption
- Portable assays

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- Portable assays
- Temperature-sensitive separations
- Reduced analysis times
- Improved peak shapes

📥 APPLICATIONS

- Targeted proteomics and metabolomics: Simple separation device that is ideal for analyzing very small sample volumes and for augmenting MS detection.
- **Pharmaceutical analysis:** Small and simple device for monitoring chemical reactions used in drug discovery and for quality control analysis in drug manufacturing.
- On-line/at-line monitoring: Perfect device for routine at-line cleaning validation or on-line process monitoring by itself or as a confirmatory assay (can be used where traditional LC is too large or too complex).
- Hands-on education tool: Either type of cartridge coupled with the Focus LC® provides a full HPLC system in a very small form factor that is flexible, portable, and easily utilized in both graduate and undergraduate teaching labs as well as in faculty research projects.

All FCC applications, and:

- Temperature-sensitive separations: Columns can be maintained at specific temperatures that are ideal for separating compounds that are sensitive to temperature changes in the mobile and stationary phases.
- Improving peak shapes: By controlling the column temperature, chromatographic peak tailing can be significantly reduced and the peaks narrowed, yielding better chromatographic resolution.
- **Reducing analysis times:** Elevated temperatures can increase solubility and reduce viscosity of the mobile phase to improve the speed of the separation and reduce the overall analysis time.
- Pharmaceutical and chemical analysis: Heated columns are used in the pharmaceutical and chemical industries for the analysis of complex mixtures where temperature control enhances separation efficiency.



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