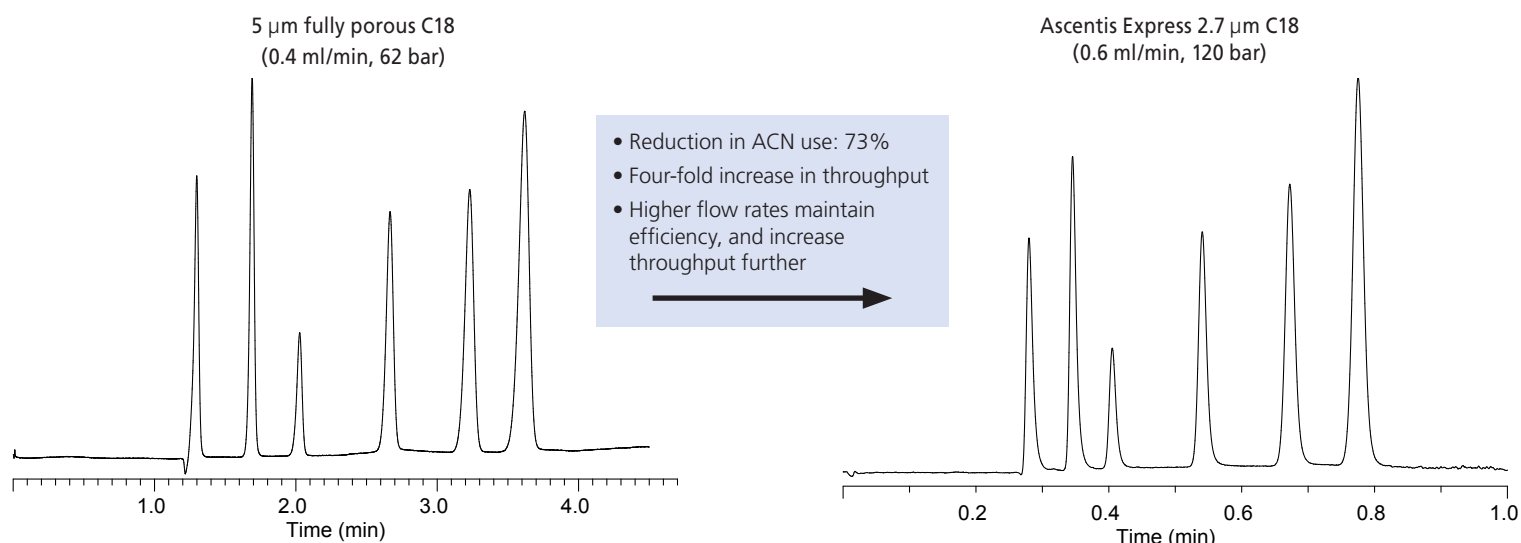


Save Time and Solvent With Ascentis® Express Fused-Core™ HPLC Columns

- Decrease valuable acetonitrile use
- Increased efficiency enables use of shorter columns for further solvent savings
- Greater performance from traditional HPLC systems – achieve UHPLC-like performance

Ascentis Express columns provide a breakthrough in HPLC technology and column performance. Creating a solid core within the silica particle provides much lower dispersion that gives sharper peaks. In addition, a much tighter particle size distribution provides a more evenly packed column bed, increasing column efficiency further.

Example: Separation of uracil, phenol, acetophenone, benzene, toluene, naphthalene



Column	Size	Mobile Phase (H ₂ O/ACN)	Flow Rate (ml/min)	Assay Time	ACN Used
5 µm C18 porous particle	50 x 3mm	20/80	0.4	3.8 min	1.22 ml
2.7 µm Ascentis Express	50 x 3mm	31/69	0.6	0.8	0.33
2.7 µm Ascentis Express	50 x 3mm	31/69	1.2	0.42	0.35

**Ascentis Express HPLC Columns
with Fused-Core Technology
Extreme Performance on Any LC System**

sigma-aldrich.com/express

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*Accelerating Customers'
Success through Leadership
in Life Science, High
Technology and Service*

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