

HPLC for Small Molecules

Ascentis® Express 2.7 Micron: Four Benefits of Ascentis® Express

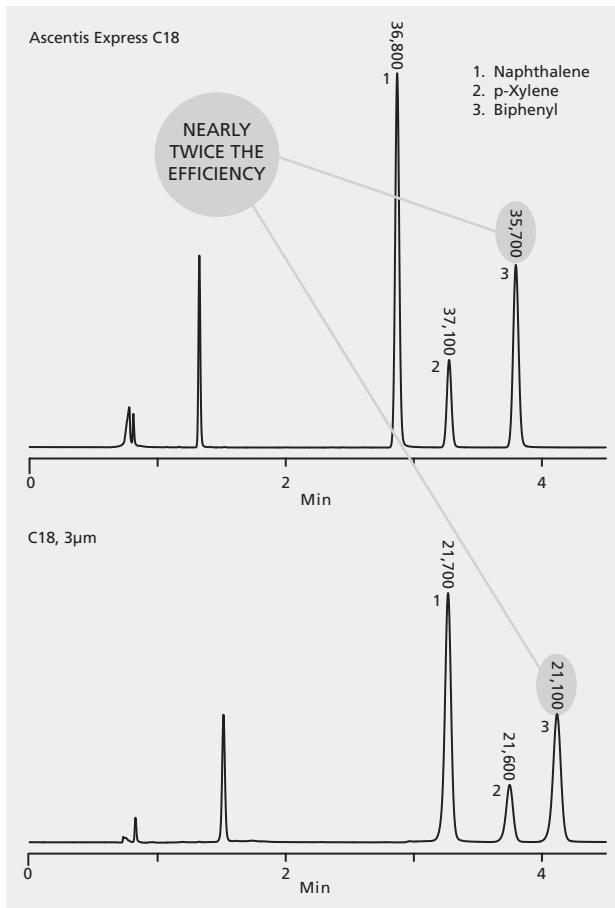
2. Double the Efficiency

- Short analyte diffusion path
- Longer columns permit doubling the plates over sub-2 μm particles
- Twice the efficiency of 3 μm particles

High Efficiency Resolution on Ascentis® Express Versus 3 μm Particles

► application for HPLC

column .. Ascentis Express C18, 15 cm \times 4.6 mm I.D., 2.7 μm particles and C18, 15 cm \times 4.6 mm I.D., 3 μm particles (53829-U)
 mobile phase 35:65 or 27.5:72.5, water:acetonitrile
 flow rate 1.5 mL/min
 column temp. ambient
 detector UV at 220 nm
 injection 2 μL
 Application No. G003979



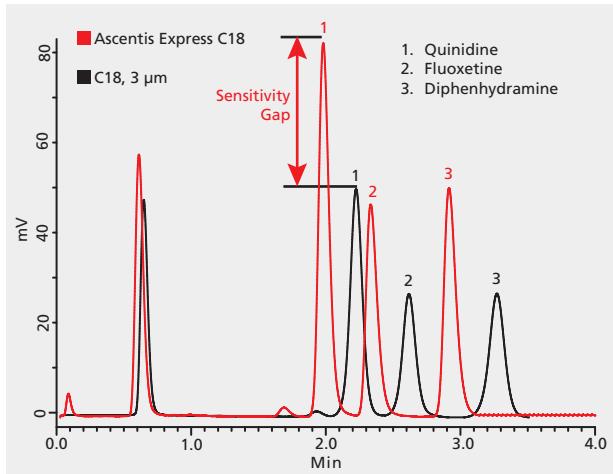
3. High sample loading capacity and signal/noise for trace analysis

- High sample loading from thick, porous shell layer
- High column efficiency for high S/N

HPLC Analysis Higher Efficiency of Ascentis® Express Compared to 3 μm Particles Gives Better Sensitivity on Ascentis® Express C18

► application for HPLC

column .. Ascentis Express C18, 5 cm \times 2.1 mm I.D., 2.7 μm particles and C18, 5 cm \times 2.1 mm I.D., 3 μm particles (53822-U)
 mobile phase 35:0:65 or 35:4:61, 25 mM dibasic ammonium phosphate (pH 7.0):water:acetonitrile
 flow rate 0.2 mL/min
 column temp. 35 °C
 detector UV at 220 nm
 injection 1 μL
 Application No. G003977



4. Extended column lifetime compared to both 3 μm and sub-2 μm columns

- Narrow particle size distribution allows use of 2 μm frits
- Dense particles for more stable bed