



# HARDCORE SFC SEPARATIONS

## 2-EP (ETHYLPYRIDINE) - 2.6 $\mu\text{m}$

The 2.6  $\mu\text{m}$  core shell column shows only one third of back pressure in comparison with the 1.7  $\mu\text{m}$  fully porous column. However, both show almost

the same efficiency. By such low back pressure, a difference of density of supercritical fluid between an inlet and an outlet of the column is reduced. Conse-

quently, 2.6  $\mu\text{m}$  core shell column performs a superior separation for SFC.

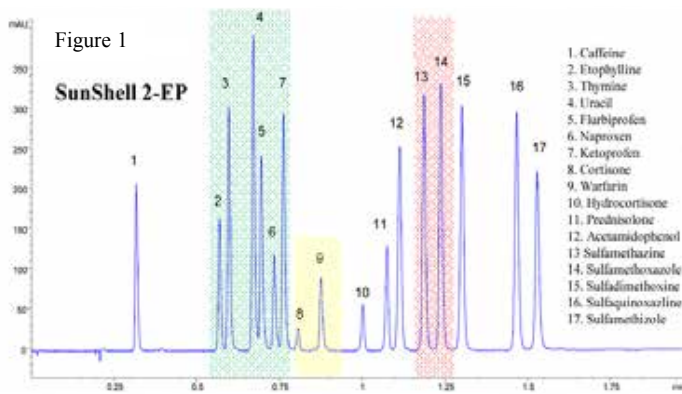


Figure 1: Chromatogram of the separation for the 17-components mix using the Sun Shell 2-EP 150 x 3.0 mm column. A methanol gradient of < 2 minutes was used on the Agilent 1260 Infinity SFC system. SFC conditions: flow rate: 4.0mL/min; outlet pressure 160 bar; column temperature 55°C. Gradient program: 5.0-7.5% in 0.20 min, then 7.5-20% in 1.3 min and held at 20% for 0.2 min.

## 2-EP - 2.6 μm

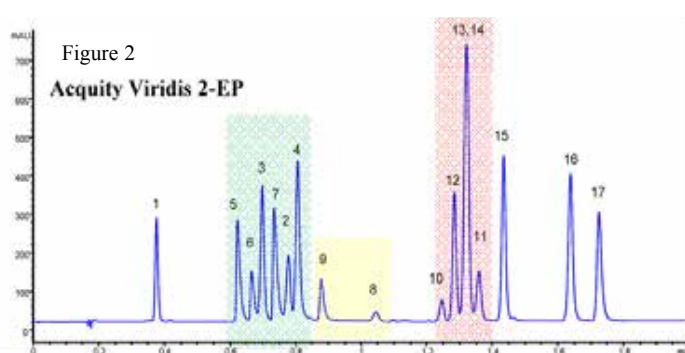


Figure 2: Chromatogram of the separation for the 17-components mix using Acquity UPC2 Viridis 2-EP 100 x 3.0 mm column. 16 of the 17 components were resolved. A methanol gradient of < 2 minutes was used on the Agilent 1260 Infinity SFC system. SFC conditions: flow rate 3.5 mL/min; outlet pressure 160 bar; and column temperature 70°C. Gradient program: 5.0-12.5% in 1.0 min, 12.5% for 0.25 min, then 12.5-20% in 0.75 min. Courtesy of Pfizer Inc.

ORDERING INFO OF SUNSHELL	Inner diameter (mm)	1.0	2.1	3.0	4.6	USP category
	Length (mm)	Catalog no	Catalog no	Catalog no	Catalog no	Catalog no
Sunshell 2-EP, 2.6 μm	30	---	CE6931	CE6331	CE6431	
	50	---	CE6941	CE6341	CE6441	
	75	---	CE6951	CE6351	CE6451	
	100	---	CE6961	CE6361	CE6461	
	150	---	CE6971	CE6371	CE6471	