HARDCORE SFC SEPARATIONS

2 -EP (ETHYLPYRIDINE) - 2.6 µm

The 2.6 µm core shell column shows only one third of back pressure in comparison with the 1.7 µm 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. Consequently, 2.6 µm core shell column performs a superior separation for SFC.

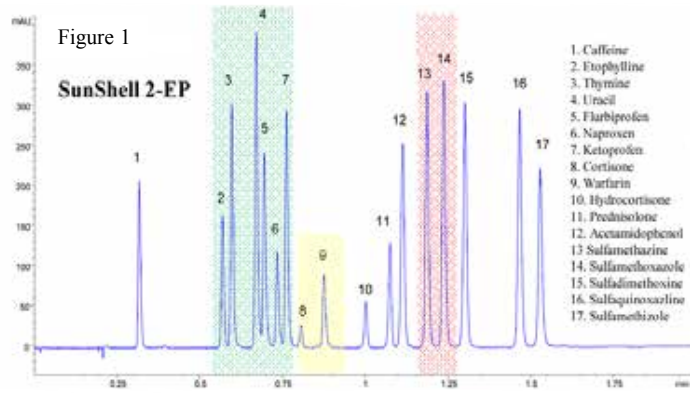

Figure 1: Chromatogram of the separation for the 17-components mix using the Sun Shell 2-EP 150 x 3.0 mm column. A methanol gradient of < 2 minutes was used on the Agilent 1260 Infinity SFC system. SFC conditions: flow rate: 4.0mL/min; outlet pressure 160 bar; column temperature 55°C. Gradient program: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

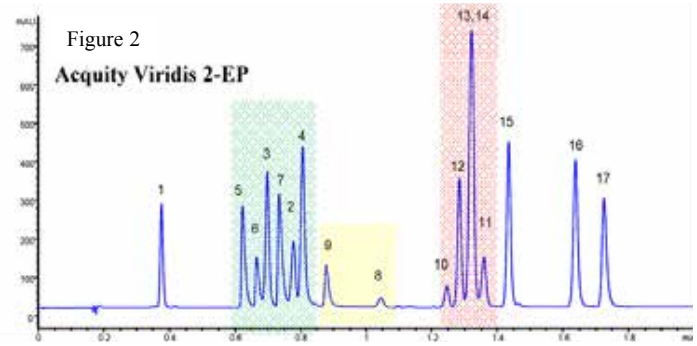

Figure 2: Chromatogram of the separation for the 17-components mix using Acquity UPC2 Viridis 2-EP 100 x 3.0 mm column. 16 of the 17 components were resolved. A methanol gradient of < 2 minutes was used on the Agilent 1260 Infinity SFC system. SFC conditions: flow rate 3.5 mL/min; outlet pressure 160 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	