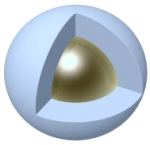
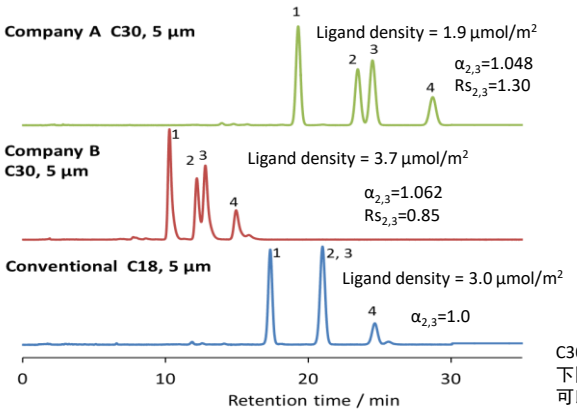
Sepsil Core C30, 2.6 µm



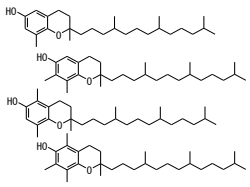
物理参数

	粒径	孔径	比表面积	含碳量	键合相	封尾	最大耐压	pH范围
Sepsil Core C30	2.6µm	12nm	95m²/g	7%	C30	TMS	60 MPa	1.5 - 9

C30柱的问题点

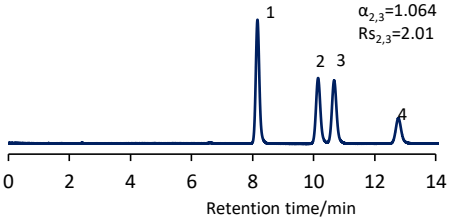


Column dimension: 250 x 4.6 mm
Mobile phase: methanol/water = 97/3
Flow rate: 1.0 mL/min
Temperature: 30 °C
Detection: UV@295 nm
Sample,
1 = δ-tocopherol
2 = γ-tocopherol
3 = β-tocopherol
4 = α-tocopherol



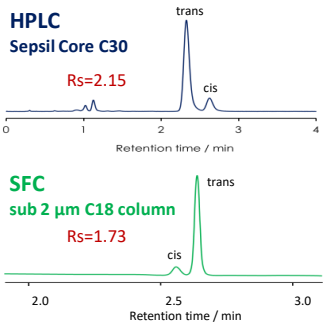
C30的键合密度越高，β,γ-生育酚异构体的分离系数越高，但是键合密度过高会造成柱效下降，而且产生拖尾，分离度降低。我公司C30采用最适合的孔径和键合密度相结合，可以达到无拖尾的高效分离。

生育酚的分离



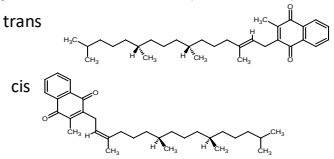
Column: SunShell C30, 2.6 µm 150 x 3.0 mm
Mobile phase: Methanol/water = 97/3
Flow rate: 0.43 mL/min
Temperature: 25 °C
Detection: UV@295 nm
Sample: 1 = δ-tocopherol, 2 = γ-tocopherol, 3 = β-tocopherol, 4 = α-tocopherol

维生素K1的高速分离



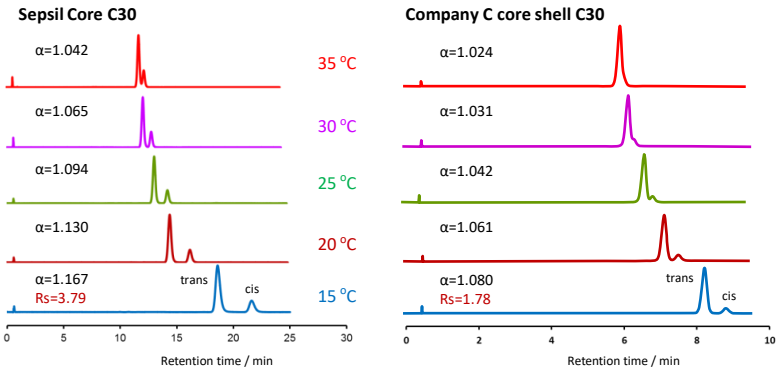
HPLC condition
Column: Sepsil Core C30, 2.6 µm 50 x 3.0 mm
Mobile phase: Methanol
Flow rate: 0.80 mL/min
Temperature: 15 °C
Detection: UV@250 nm
Sample: Vitamin K1 isomers (trans and cis)

trans
cis



3分钟就可以进行异构体的分离，使用亚2um柱在SFC上虽然可以实现高速分离，但在分离度上弱于在HPLC上使用Sepsil Core C18柱。

维生素k1异构体的分离比较



Column: Sepsil Core C30, 2.6 µm 100 x 2.1 mm
Company C core shell C30, 2.6 µm 100 x 2.1 mm
Mobile phase: methanol/water = 96/4
Flow rate: 0.35 mL/min
Detection: UV@250 nm
Sample: vitamin K1 isomers (trans and cis).

trans
cis