

Sunrise C18 Octadecyl group

Sunrise C28 Octacocyl group

Sunrise PhE Phenethyl group

NEW



Fully end-capped stationary phase

Name	Stationary phase	Carbon content	Ligand density	Particle size
C18 Octadecyl		15%	2.1 µmol/m²	3 µm, 5 µm
C28 Octacocyl		18%	1.7 µmol/m²	3 µm, 5 µm
PhE Phenethyl		11%	3.4 µmol/m²	5 µm

Silica support
Surface area : 340 m²/g
Pore volume : 1.0 mL/g
Pore diameter : 12 nm
End-capping
Trimethylsilyl group (TMS)

* Deactivation with both silanol activity control technique and full end-capping!

C18:

- Conventional C18 phase with full end-capping

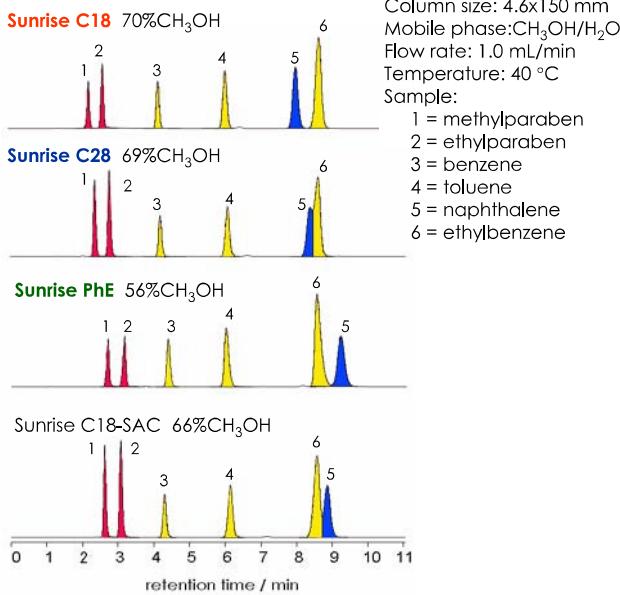
C28:

- A long alkyl chain improves both separation of fat-soluble compounds to compare with C18 phase and an excellent reproducibility in retention under high aqueous conditions.
- Furthermore, a suitable ligand density of C28 allows to be obtained a shape peak shape even if more than 50% aqueous mobile phase is used.
- Different selectivity

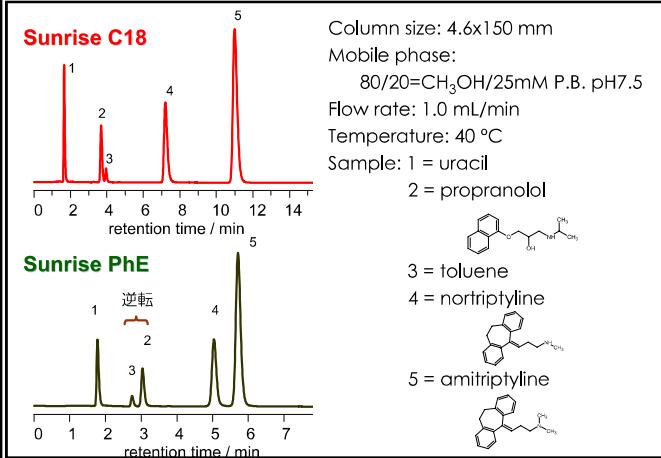
PhE:

- Interaction based with π -electron such as $\pi-\pi$ interaction
- π -electron also interacts with a polar site of a compound, so that phenyl phase improves separation of polar compounds. Ethylene chain between silica surface and phenyl group allows a movable sphere of a phenyl group to be wide. A chain with more than three carbons shows more hydrophobic interaction, so that π -electron interaction decreases relatively.
- Phenethyl (PhE) group is a suitable phenyl phase.

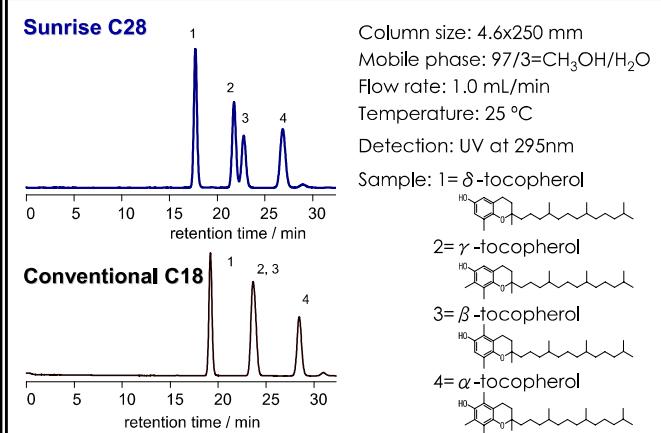
Comparison of stationary phases



Separation of Basic compounds



Separation of Vitamin E Isomer can be separated by C28



* Ordering information

Inner diameter [mm]	Length [mm]	Sunrise C18, 5µm	Sunrise C18, 3µm	Sunrise C28, 5µm	Sunrise C28, 3µm	Sunrise PhE, 5µm
		Cat. No.				
2.0	50	SB3241	SB2241	ST3241	ST2241	SP3241
	75	—	SB2251	—	ST2251	—
	100	SB3261	SB2261	ST3261	ST2261	SP3261
	150	SB3271	SB2271	ST3271	ST2271	SP3271
4.6	10	SB3411	SB2411	ST3411	ST2411	SP3411
	50	SB3441	SB2441	ST3441	ST2441	SP3441
	75	—	SB2451	—	ST2451	—
	100	SB3461	SB2461	ST3461	ST2461	SP3461
	150	SB3471	SB2471	ST3471	ST2471	SP3471
	250	SB3481	—	ST3481	—	SP3481
10.0	250	SB3781	—	ST3781	—	SP3781
20.0	250	SB3881	—	ST3881	—	SP3881