SpeedCore

C18-PFP

New Fused Core technology

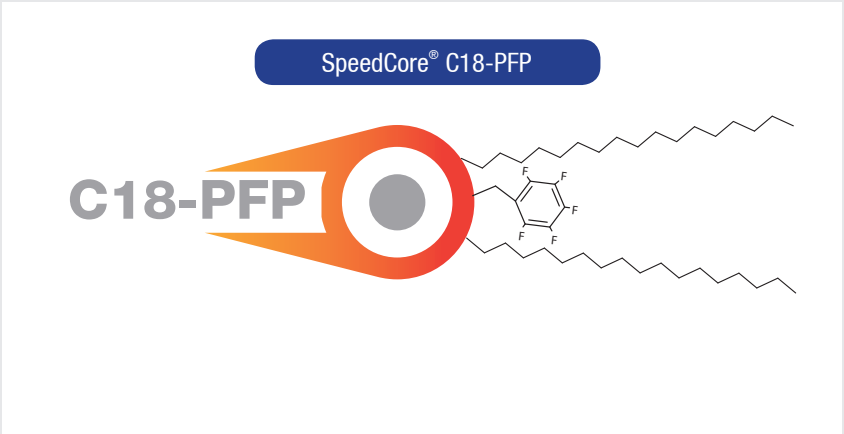
- Orthogonal Selectivity
- Improve Resolution even at high speed
- Provide high efficiency
- Excellent Method Development option

Speedcore® C18-PFP increases selectivity over alkyl chain stationary phase particles. Leading to a combination of high efficiency, resolution and sensitivity.

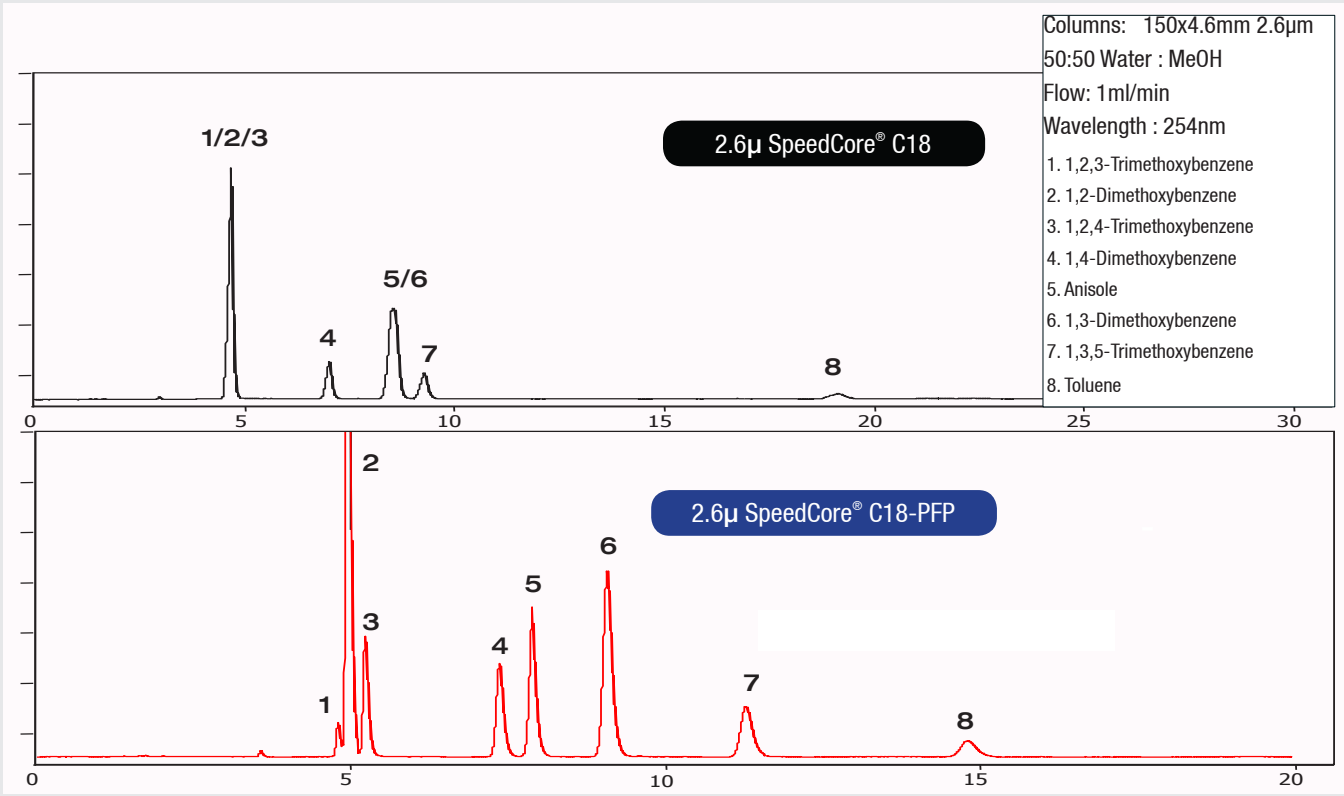
SpeedCore C18-PFP structure

SpeedCore C18-PFP features a mixture of C18 alkyl chain ligands and PentaFluoroPhenyl (PFP) ligands. This provides multiple mechanisms of interaction between stationary phase and analytes, allowing for unique selectivity of closely related species and metabolites. No complex mobile phase additives are necessary, therefore simplifying LC method development.

- π-π (High selectivity)
- Steric selectivity
- Hydrophobicity (Highly stable)



Orthogonal Selectivity - Substituted Benzenes



Orthogonal Selectivity

Selectivity of compounds is enhanced on the SpeedCore C18-PFP over traditional C18 stationary phases due to the added steric selectivity and pi-pi interactions available. The result is a robust stationary phase with the high efficiency of core shell particles coupled with the orthogonal selectivity of C18- PFP stationary phase.

2.6µm Fortis SpeedCore 150x4.6mm

Mobile Phase:

A: 0.1% Formic acid in Water

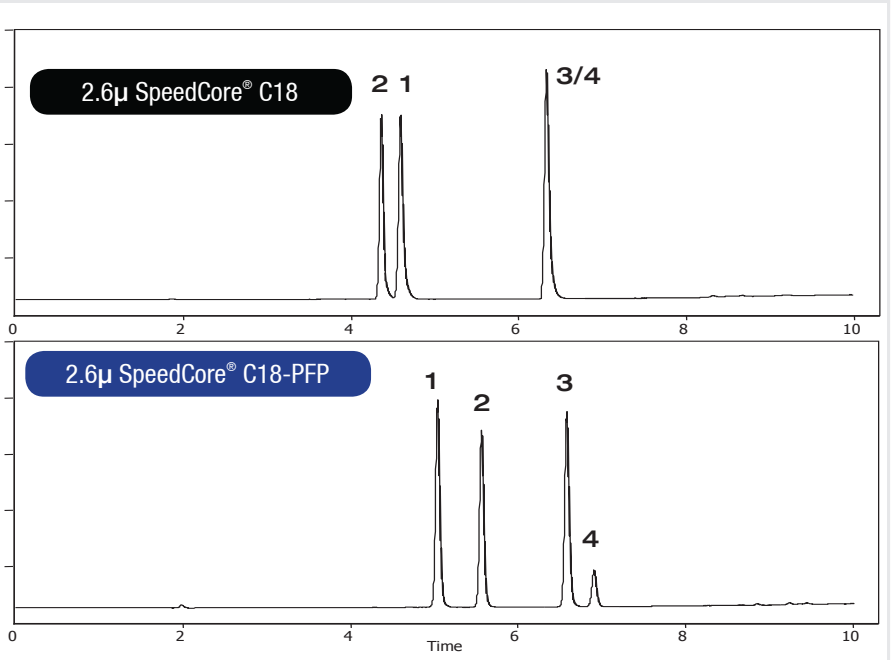
B: 0.1% Formic acid in ACN

5 - 100 %B in 10mins

1.0ml/min

254nm

1. Paracetamol
2. Hydrochlorothiazide
3. Methylphenylsulfoxide
4. Methylphenylsulfone



2.6µm Speedcore® C18-PFP part numbers

2.6µm Speedcore C18		Column Length			
		30	50	100	150
Column Diameter	2.1	SP18FP-020226	SP18FP-020326	SP18FP-020526	SP18FP-020726
	3.0	SP18FP-030226	SP18FP-030326	SP18FP-030526	SP18FP-030726
	4.6	SP18FP-050226	SP18FP-050326	SP18FP-050526	SP18FP-050726

5µm Speedcore® C18-PFP part numbers

5µm Speedcore C18		Column Length			
		30	50	100	150
Column Diameter	2.1	SP18FP-020250	SP18FP-020350	SP18FP-020550	SP18FP-020750
	3.0	SP18FP-030250	SP18FP-030350	SP18FP-030550	SP18FP-030750
	4.6	SP18FP-050250	SP18FP-050350	SP18FP-050550	SP18FP-050750

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