

SpeedCore AQUA

 New Fused Core technology

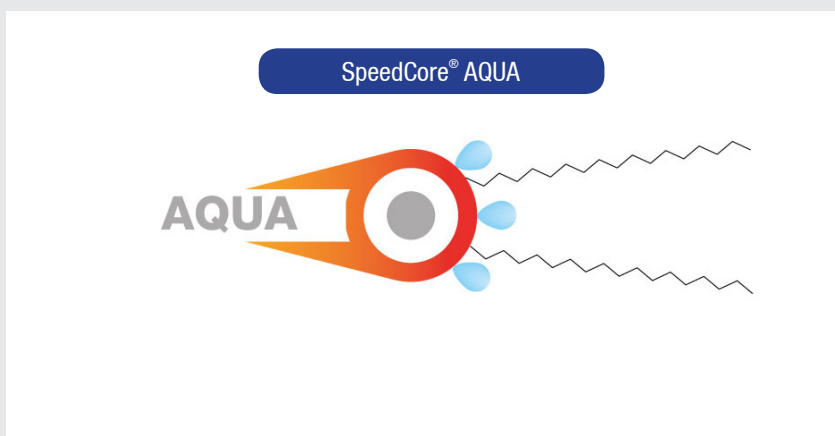
- ⊙ Polar Retention and Selectivity
- ⊙ Improve Resolution even at high speed
- ⊙ Provide high efficiency
- ⊙ Excellent Method Development option

SpeedCore® AQUA increases retention of polar analytes over alkyl chain stationary phase particles, leading to a combination of high efficiency, resolution and sensitivity.

SpeedCore AQUA structure

SpeedCore AQUA features a mixture of C18 alkyl chain ligands and polar endcapping. This provides additional retention for polar analytes and multiple mechanisms of interaction between stationary phase and samples. No complex mobile phase additives are necessary, therefore simplifying LC method development.

- ⊙ Polar selectivity
- ⊙ Polar endcapped
- ⊙ 100% Aqueous compatible



Polar Selectivity - Organic acids

The ability to run highly aqueous mobile phases in order to retain small polar molecules without the need to move to HILIC mobile phases or ion-pair reagents can be a real bonus in terms of reproducibility and robustness of a method.

2.6µm SpeedCore AQUA 150x4.6mm

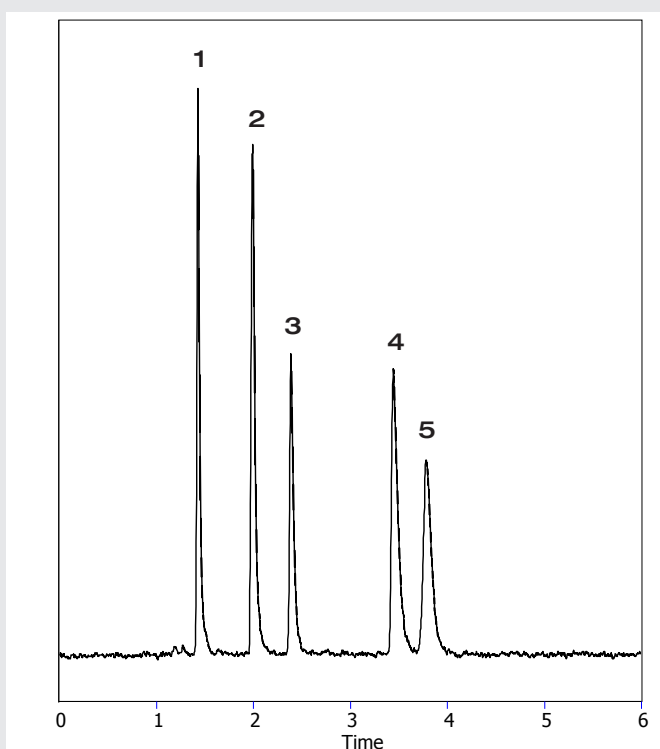
Mobile Phase: 20mM KH_2PO_4 pH 2.5

1.0ml/min

210nm

25°C

1. Tartaric acid
2. Ascorbic acid
3. Acetic acid
4. Citric acid
5. Fumaric acid



Polar Retention - Water Soluble Vitamins

SpeedCore AQUA columns can resolve closely related compounds such as ascorbic and isoascorbic acid even with highly aqueous simple mobile phase systems. The combination of alkyl chain and polar endcapping on a SpeedCore particle providing selectivity, efficiency and speed.

2.6µm SpeedCore AQUA 150x4.6mm

Mobile Phase: 98:2 0.1% formic acid:ACN

1.0ml/min

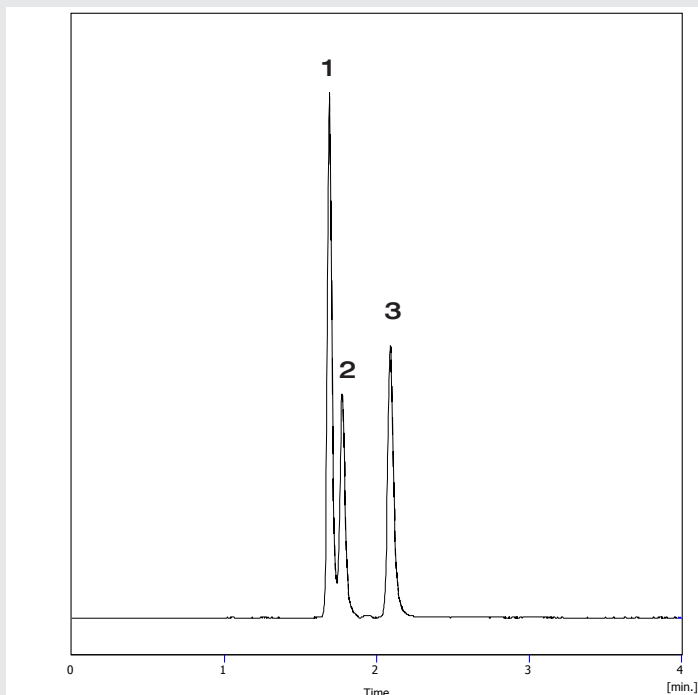
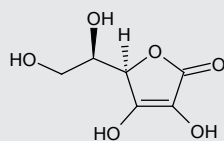
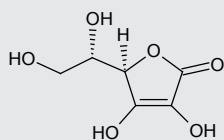
254nm

20°C

1. Ascorbic acid

2. Iso-ascorbic acid

3. Nicotinic acid



2.6µm SpeedCore® AQUA part numbers

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

5µm SpeedCore® AQUA part numbers

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