

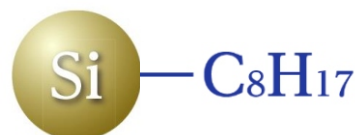
HPLC, LC/MS Columns

InertSustainSwift™ C8

InertSustainSwift C8 is an octyl group (C8) bonded column offering the same extreme inertness to any type of compounds just like InertSustainSwift C18, which is ideal for analyzing low polarity analytes. In addition, the optimized 200 Å pore size silica enables to analyze and retain peptides and oligonucleotides which have a molecular weight from several kDa to several dozen kDa.

Physical Properties

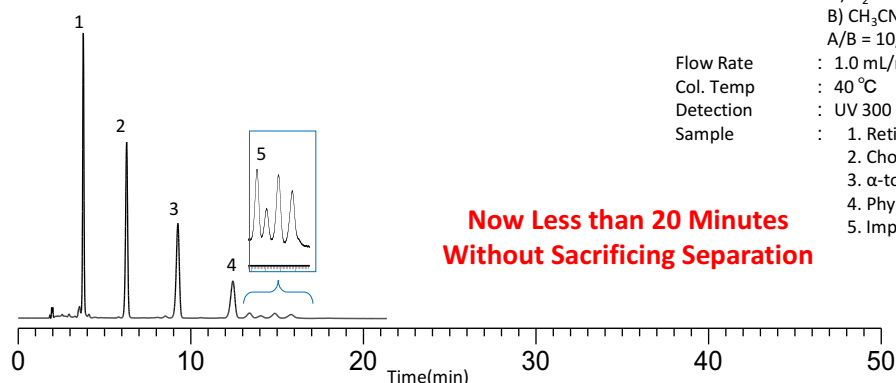
- Silica : ES (Evolved Surface) Silica Gel
- Particle Size : 1.9 µm, 3 µm, 5 µm
- Surface Area : 200 m²/g
- Pore Size : 200 Å (20 nm)
- Pore Volume : 1.00 mL/g
- Bonded Phase : Octyl Groups
- End -capping : Complete
- Carbon Loading : 6 %
- pH Range : 1 ~ 10
- USP Code : L7



Fat -Soluble Vitamins

InertSustainSwift C8 offer rapid elution of samples and ideal to make samples or impurities to elute rapidly when observing them not to be eluted fast enough even under organic solvent rich mobile phases.

InertSustainSwift C8

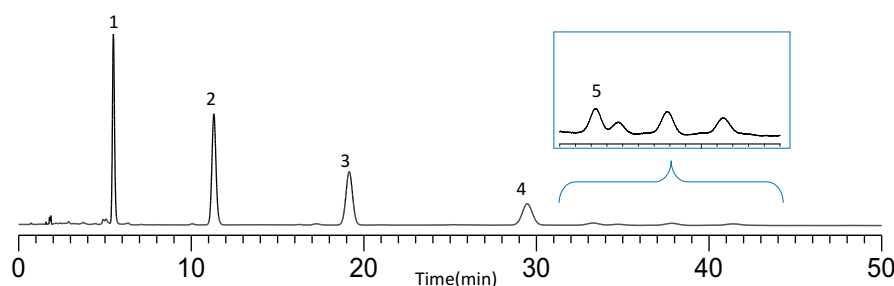


Conditions

Column Size	: 5 µm 150 *4.6mm I.D.
Eluent	: A) H ₂ O B) CH ₃ CN A/B = 10/90,v/v
Flow Rate	: 1.0 mL/min
Col. Temp	: 40 °C
Detection	: UV 300 nm
Sample	: 1. Retinol (Vitamin A) 2. Cholecalciferol (Vitamin D ₃) 3. α-tocopherol (Vitamin E) 4. Phylloquinone (Vitamin K ₁) 5. Impurities of 1

InertSustain C8

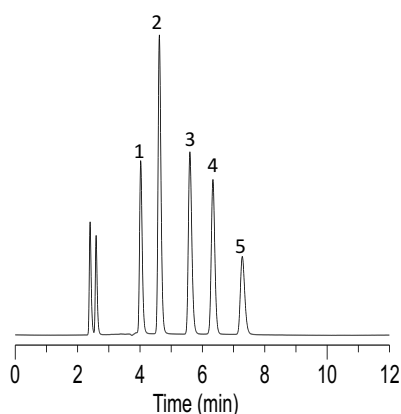
Total Analysis Time 45 minutes



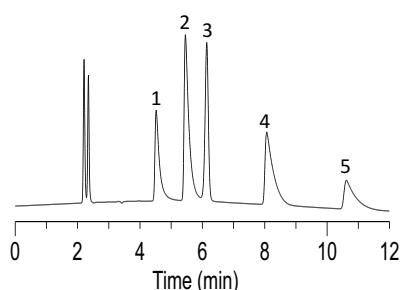
Analysis of Antihistamines

Antihistamines are strongly basic in nature and many C8 columns show strong adsorption of basic or neutral compounds, which often leads to peak tailing, fronting and poor resolution. Symmetric peaks can be achieved when using columns having an inert silica with excellent end-capping such as InertSustainSwift C8 columns.

InertSustainSwift C8



Hypersil BDS C8



Conditions

Column Size : 5 μ m 250 $\times$ 4.6 mm I.D.
 Eluent : A) CH₃CN
 B) 25 mM K₂HPO₄ (pH 7.0, KH₂PO₄)
 A/B = 60/40, v/v
 Flow Rate : 1.0 mL/min
 Col. Temp : 40 $^{\circ}$ C
 Detection : 230 nm
 Injection Vol. : 5 μ L
 Sample :

1. Chlorpheniramine
2. Triprolidine
3. Homochlorcyclizine
4. Hydroxyzine
5. Clemastine

Ordering Information

InertSustainSwift™ C8 Analytical Columns

Particle Size : 1.9 μ m Max. Operating Pressure: 80 MPa (800 Bar)	Length \ I.D. (mm)	2.1	3.0
	50	5020-88533	5020-88536
	100	5020-88534	5020-88537
	150	5020-88535	5020-88538
HP Series Particle Size : 3 μ m Max. Operating Pressure: 50 MPa (500 Bar)	Length \ I.D. (mm)	2.1	3.0
	50	5020-88515	5020-88519
	100	5020-88516	5020-88520
	150	5020-88517	5020-88521
	250	5020-88518	5020-88522

* End-fittings are 1/16" Parker-style.

Particle Size : 3 μ m	Length \ I.D. (mm)	2.1	3.0	4.0	4.6
	50	5020-88427	5020-88435	5020-88443	5020-88451
	75	5020-88428	5020-88436	5020-88444	5020-88452
	100	5020-88429	5020-88437	5020-88445	5020-88453
	150	5020-88431	5020-88439	5020-88447	5020-88455
	250	5020-88432	5020-88440	5020-88448	5020-88456
Particle Size : 5 μ m	Length \ I.D. (mm)	2.1	3.0	4.0	4.6
	50	5020-88303	5020-88311	5020-88319	5020-88327
	75	5020-88304	5020-88312	5020-88320	5020-88328
	100	5020-88305	5020-88313	5020-88321	5020-88329
	150	5020-88307	5020-88315	5020-88323	5020-88331
	250	5020-88308	5020-88316	5020-88324	5020-88332

* End-fittings are 1/16" t taters-compatible.

* Max. Operating Pressure: 20 MPa (200 Bar)