Shim-pack GIST PFPP

Strong retention for highly polar basic compounds

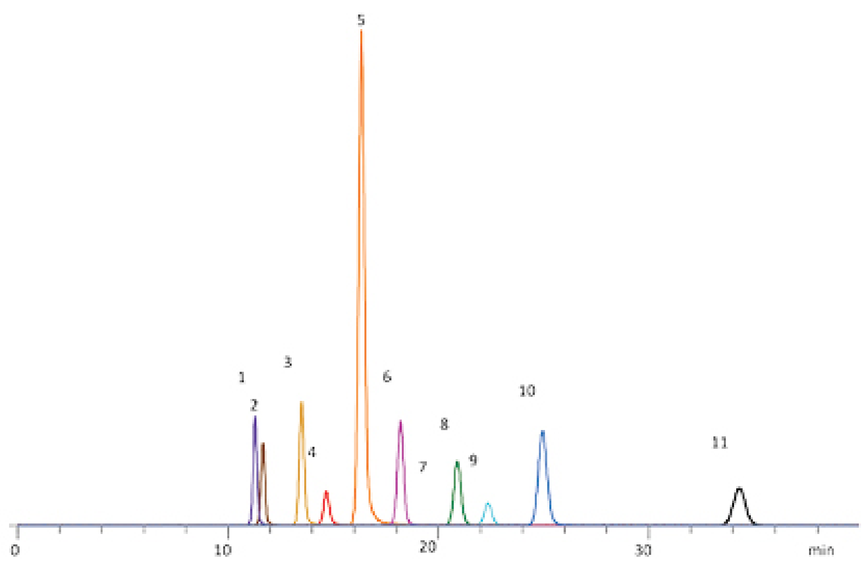
Different from other Shim-pack Series PFPP (pentafluorophenylpropyl) columns, this PFPP column is end-capped so it provides a different selectivity. Durability is a challenge for PFPP columns. However, Shim-pack GIST PFPP provides both high durability, which is a characteristic of the Shim-pack GIST Series, and separation characteristics of PFPP via a unique, advanced end-capping technology.

Generally, PFPP columns retain more highly polar basic compounds. This is more prominent in Shim-pack GIST PFPP and it also provides an extremely high retention performance when compared to other commercially-available PFPP columns.

Bonded Phase	Pentafluorophenyl propyl Group
Particle Size	3µm, 5µm
Pore Size	10 nm
Surface Area	350 m²/g
Carbon Loading	10 %
End-capping	No
pH Range	2 to 7.5
USP Code	L43

Analysis Examples

Analysis of Antihistamines



Peaks (100 µg/L each)

1. Ketotifen
2. Epinastine
3. Chlorpheniramine
4. Cetirizine
5. Triprolidine
6. Hydroxyzine
7. Fexofenadine
8. Azelastine
9. Loratidine
10. Homoclorcyclizine
11. Clemastine

Conditions

Column : Shim-pack GIST-HP PFPP (3 µm, 150 x 2.1 mm I.D.) (P/N: 227-30890-05)
Mobile Phase : A) Acetonitrile
B) 0.1% Formic acid in water
A/B = 40/60, v/v
Flow Rate : 0.2 mL/min
Col. Temp. : 40 °C
Detection : LCMS-8030 Plus (ESI, Positive, SRM)
Injection Vol. : 1 µL
Sample : Standard

Analytical Columns

Particle Size (µm)	Length (mm) \ I.D. (mm)	1.0	1.5	2.1	3.0	4.0	4.6
3	20	-	-	227-30858-01	227-30859-01	227-30860-01	227-30861-01
	30	227-30856-01	227-30857-01	227-30858-02	227-30859-02	227-30860-02	227-30861-02
	50	227-30856-02	227-30857-02	227-30858-03	227-30859-03	227-30860-03	227-30861-03
	75	227-30856-03	227-30857-03	227-30858-04	227-30859-04	227-30860-04	227-30861-04
	100	227-30856-04	227-30857-04	227-30858-05	227-30859-05	227-30860-05	227-30861-05
	125	-	-	227-30858-06	227-30859-06	227-30860-06	227-30861-06
	150	227-30856-05	227-30857-05	227-30858-07	227-30859-07	227-30860-07	227-30861-07
	250	227-30856-06	227-30857-06	227-30858-08	227-30859-08	227-30860-08	227-30861-08
5	20	-	-	227-30864-01	227-30865-01	227-30866-01	227-30867-01
	30	227-30862-01	227-30863-01	227-30864-02	227-30865-02	227-30866-02	227-30867-02
	50	227-30862-02	227-30863-02	227-30864-03	227-30865-03	227-30866-03	227-30867-03
	75	227-30862-03	227-30863-03	227-30864-04	227-30865-04	227-30866-04	227-30867-04
	100	227-30862-04	227-30863-04	227-30864-05	227-30865-05	227-30866-05	227-30867-05
	125	-	-	227-30864-06	227-30865-06	227-30866-06	227-30867-06
	150	227-30862-05	227-30863-05	227-30864-07	227-30865-07	227-30866-07	227-30867-07
	250	227-30862-06	227-30863-06	227-30864-08	227-30865-08	227-30866-08	227-30867-08