TCI Stella PFP

Pentafluorophenyl bonded phase

TCI Stella PFP is the latest HPLC column manufactured by TCI, this new pentafluorophenyl bonded phase gives rise to different types of interactions.

- If the separation is not satisfying using an ODS column, try out our new TCI Stella PFP column.
- Suitable for a wide range of compounds: polar, basic and hydrophobic.
- High efficiency separation of similar hydrophobic compounds
- All column sizes available in 5μm or 3μm at affordable prices

Multiple interactions

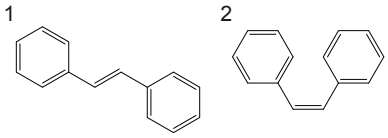
- Hydrophobic interaction
- Hydrogen bond
- Dipole-dipole interaction
- π–π interaction

Stilbene

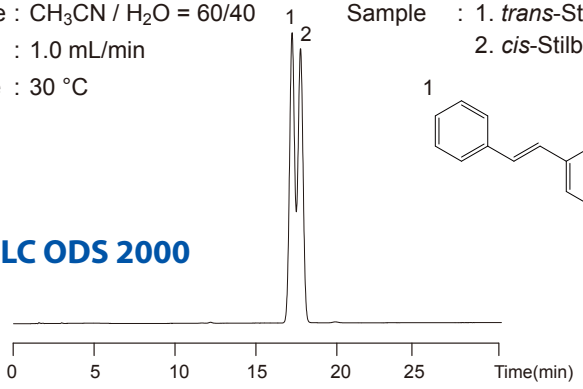
***cis, trans*-isomers having similar hydrophobicity can be separated by the PFP column.**

Column Size : 4.6 mmI.D. × 150 mm
Mobile phase : CH_3CN / H_2O = 60/40
Flow Rate : 1.0 mL/min
Temperature : 30 °C

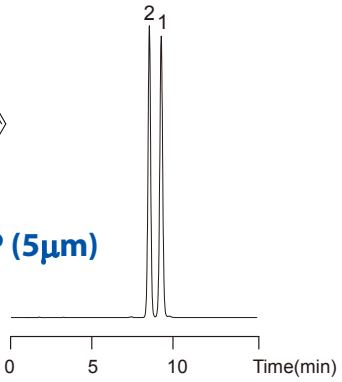
Detection : UV 230 nm
Sample : 1. *trans*-Stilbene
2. *cis*-Stilbene



Kaseisorb LC ODS 2000



TCI Stella PFP (5μm)



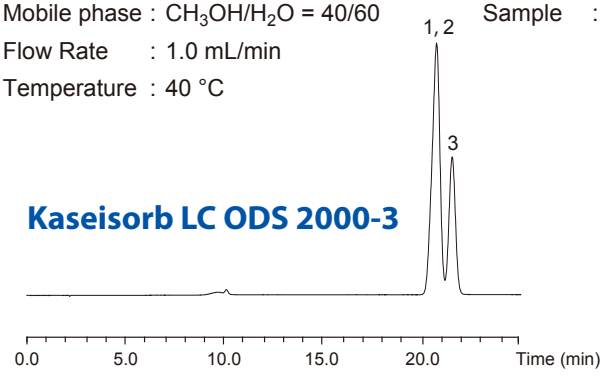
Methylacetophenones

Positional isomers having similar hydrophobicity can be separated by the PFP column.

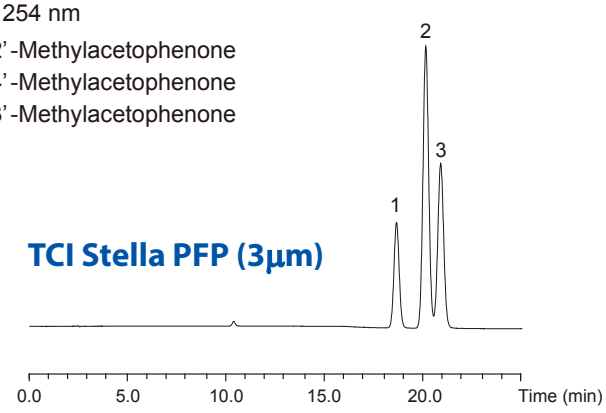
Column Size : 4.6 mmI.D. × 150 mm
Mobile phase : CH_3OH/H_2O = 40/60
Flow Rate : 1.0 mL/min
Temperature : 40 °C

Detection : UV 254 nm
Sample : 1. 2'-Methylacetophenone
2. 4'-Methylacetophenone
3. 3'-Methylacetophenone

Kaseisorb LC ODS 2000-3



TCI Stella PFP (3μm)

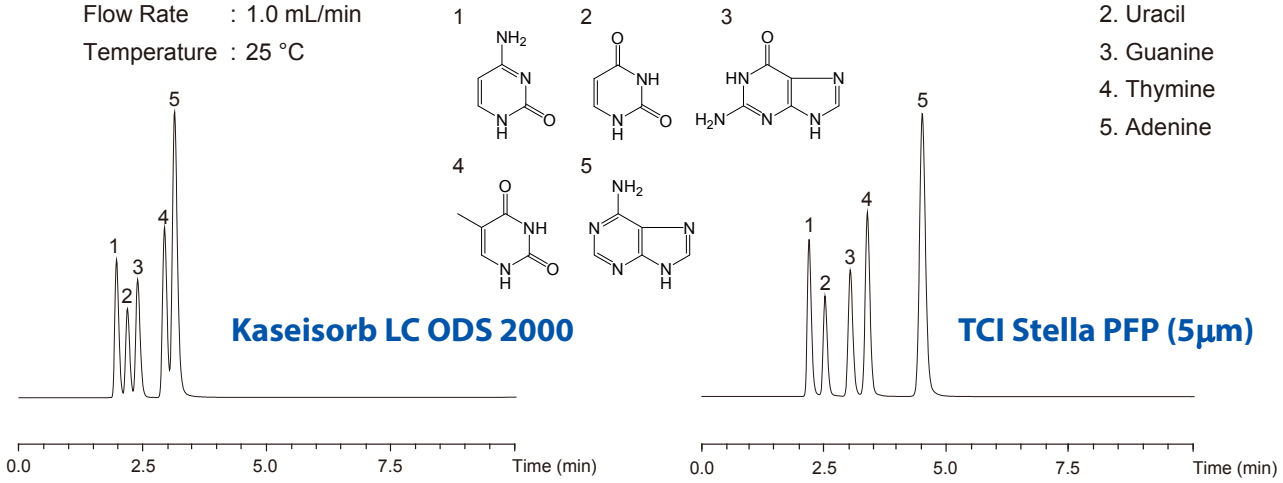


Nucleobases

PFP gives a better separation of these polar compounds than ODS with the same mobile phase.

Column Size : 4.6 mmI.D. × 150 mm
Mobile phase : CH_3OH / 20mmol/L CH_3COONH_4 (pH4.5,CH_3COOH) = 20/80
Flow Rate : 1.0 mL/min
Temperature : 25 °C

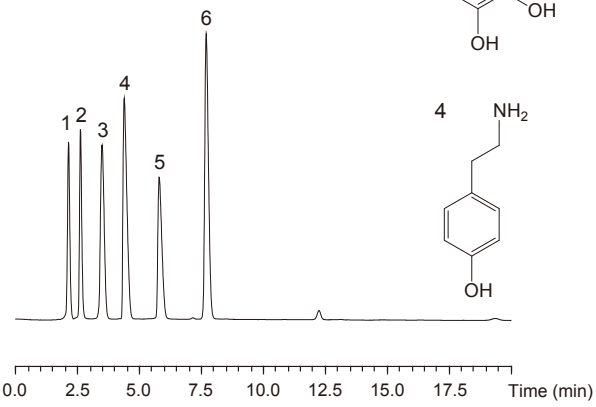
Detection : UV 254 nm
Sample : 1. Cytosine
2. Uracil
3. Guanine
4. Thymine
5. Adenine



Catecholamines

PFP achieves remarkable separations of basic compounds.

Column : TCI Stella PFP (5µm) 4.6 mmI.D. × 150 mm
Mobile phase : A) 5mmol/L $HCOONH_4$ (pH3.5,HCOOH)
B) CH_3OH
5-20% B (0-10min.)
Flow Rate : 1.0 mL/min
Temperature : 25 °C
Detection : UV 254 nm
Sample : 1. Noradrenaline
2. Adrenaline
3. Dopamine
4. Tyramine
5. Isoproterenol
6. Serotonin



TCI Stella PFP

pH range : 2-8 Particle size : 5µm, 3µm Pore size : 12nm

Size \ Column	TCI Stella PFP (5µm) Product No.	TCI Stella PFP (3µm) Product Code
2.0 mm I.D. × 50 mm	S3905	S3916
2.0 mm I.D. × 100 mm	S3906	S3917
2.0 mm I.D. × 150 mm	S3907	S3918
2.0 mm I.D. × 250 mm	S3908	–
4.6 mm I.D. × 50 mm	S3901	S3912
4.6 mm I.D. × 100 mm	S3902	S3913
4.6 mm I.D. × 150 mm	S3903	S3914
4.6 mm I.D. × 250 mm	S3904	S3915
10.0 mm I.D. × 150 mm	S3909	–
10.0 mm I.D. × 250 mm	S3910	–
20.0 mm I.D. × 250 mm	S3911	–

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