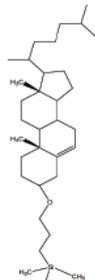
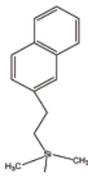


COSMOSIL

COSMOSIL UFLC Columns

COSMOSIL UFLC Columns with 2.5 µm particles are a powerful tool for very fast and efficient separation. Furthermore they can be used under 1/2 pressure of competitors' 2 µm columns.

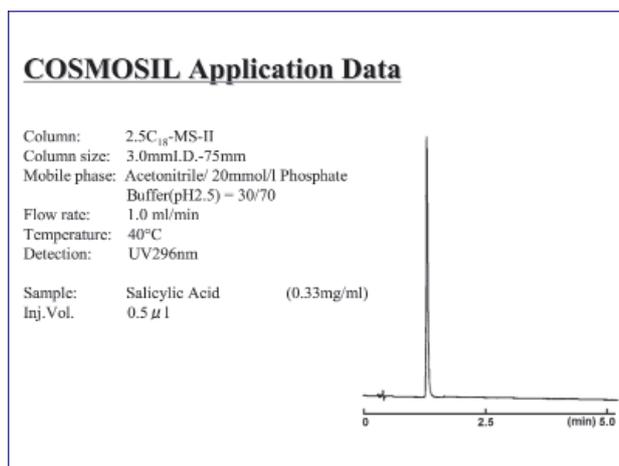
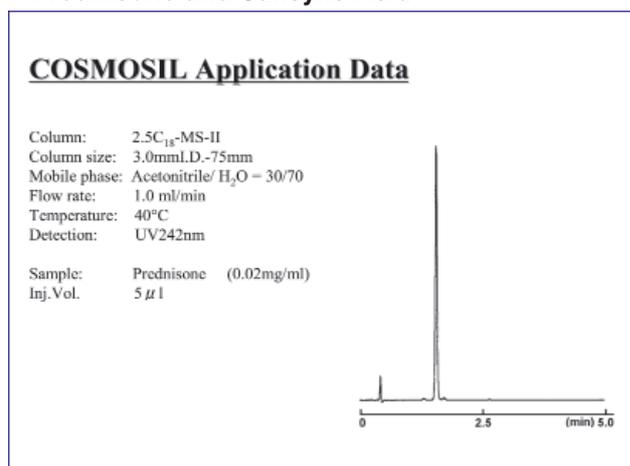
Packing Material	2.5C ₁₈ -MS-II	2.5Cholester	2.5πNAP
Silica Gel	High Purity Porous Spherical Silica		
Average Particle Size	2.5 µm		
Average Pore Size	approx. 130 Å		
Specific Surface Area	approx. 330m ² /g		
Stationary Phase	 Octadecyl Group	 Cholesteryl Group	 Naphtylethyl Group
Bonding Type	Monomeric		
Main Interaction	Hydrophobic Interaction	Hydrophobic Interaction Molecular Shape Selectivity	Hydrophobic Interaction π-π Interaction
End Capping Treatment	Near-perfect Treatment		
Features	- Multi-purpose C ₁₈ column - Suitable for basic compounds.	- Usable under the same condition as C ₁₈ . - High molecular shape selectivity	- Stronger π-π interaction than Phenyl columns.

COSMOSIL 2.5C₁₈-MS-II

Application Data

COSMOSIL 2.5C₁₈-MS-II (3.0 mm I.D. x 75 mm) enables the separation only in 2 minutes.

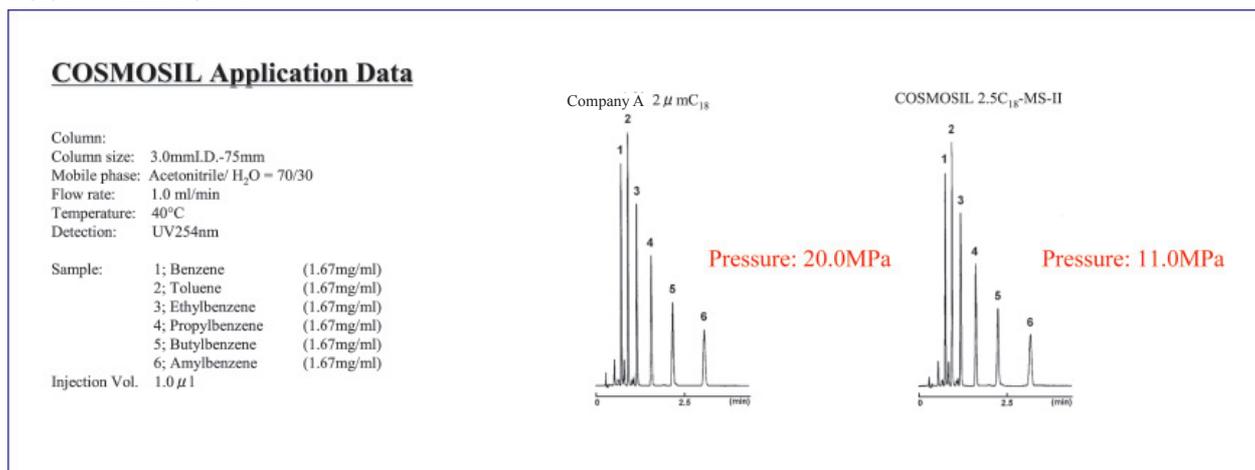
• Prednisone and Salicylic Acid



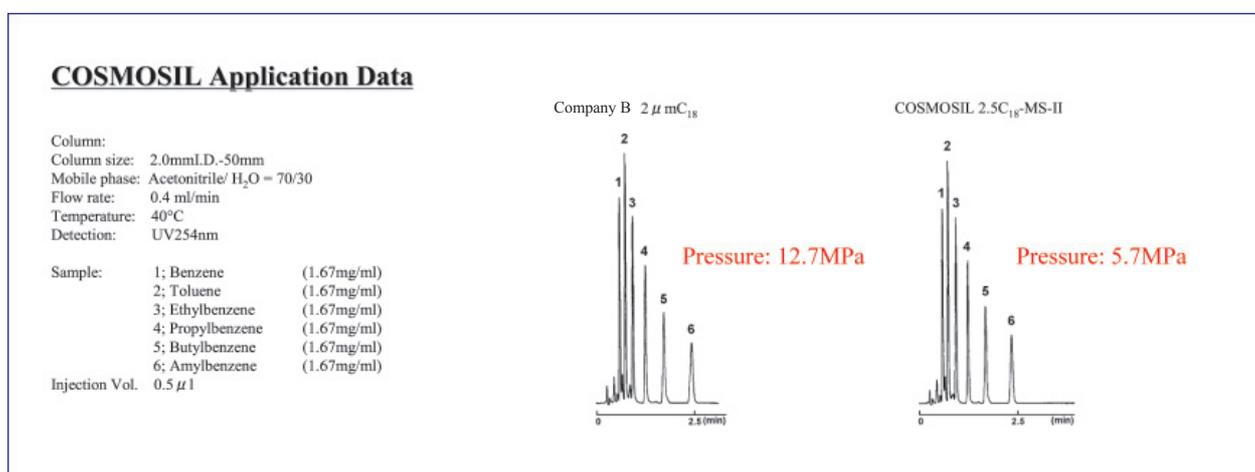
Pressure comparison with competitors' 2 μm columns

COSMOSIL 2.5C₁₈-MS-II can be used under 1/2 pressure of competitors' 2 μm columns.

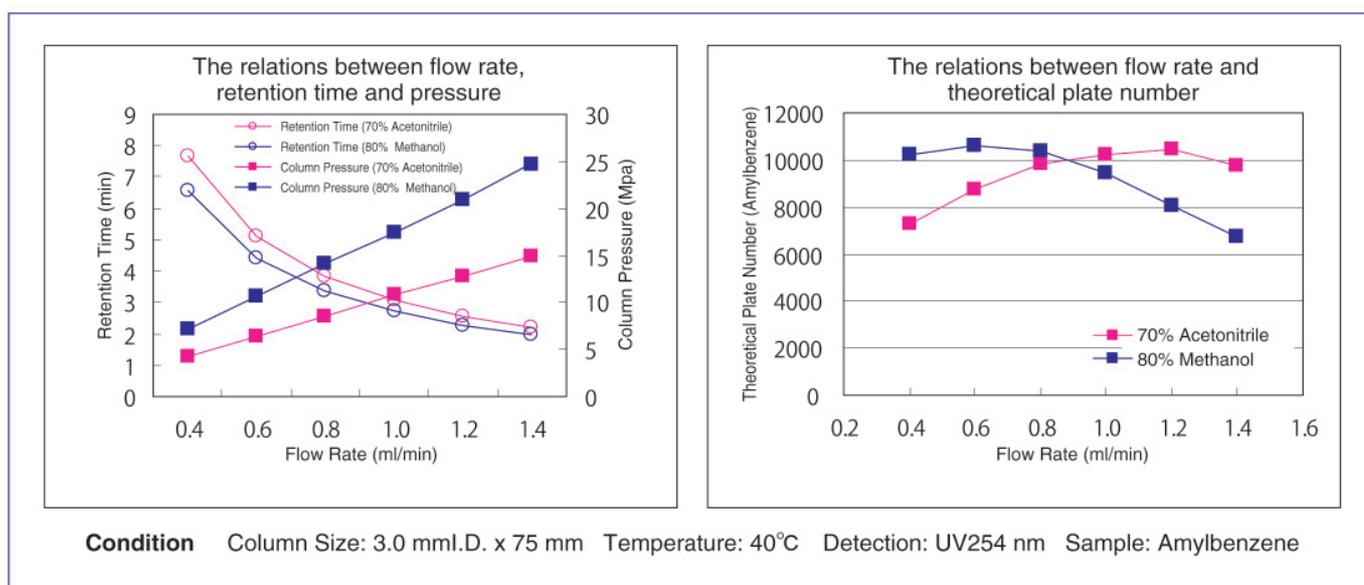
• 3.0 mm I.D. x 75 mm



• 2.0 mm I.D. x 50 mm



The relations between flow rate, retention time, pressure and theoretical plate number



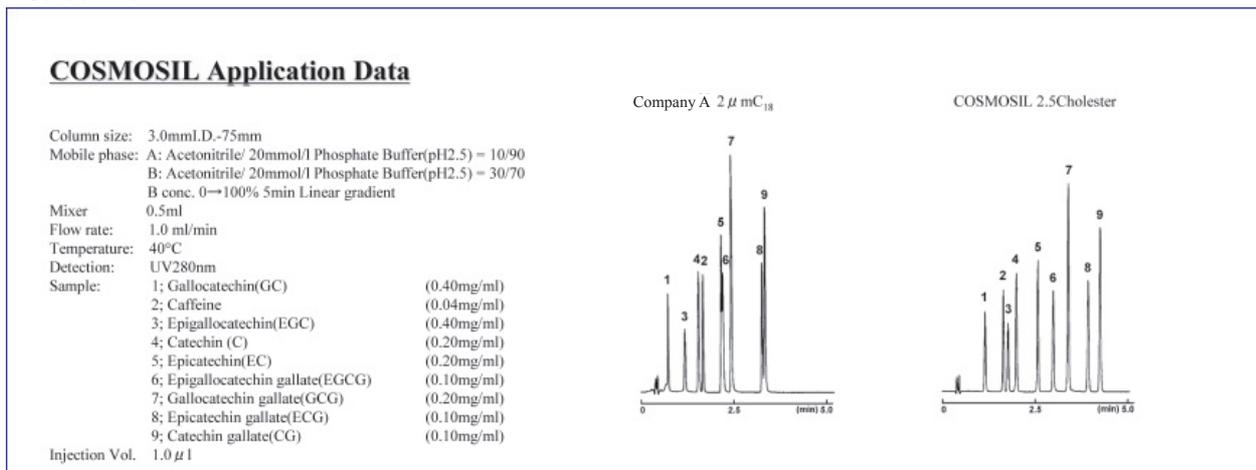
COSMOSIL 2.5Cholester

- Low back pressure (2.5 μm silica gel)
- Excellent molecular shape selectivity
- Usable under the same condition as ODS

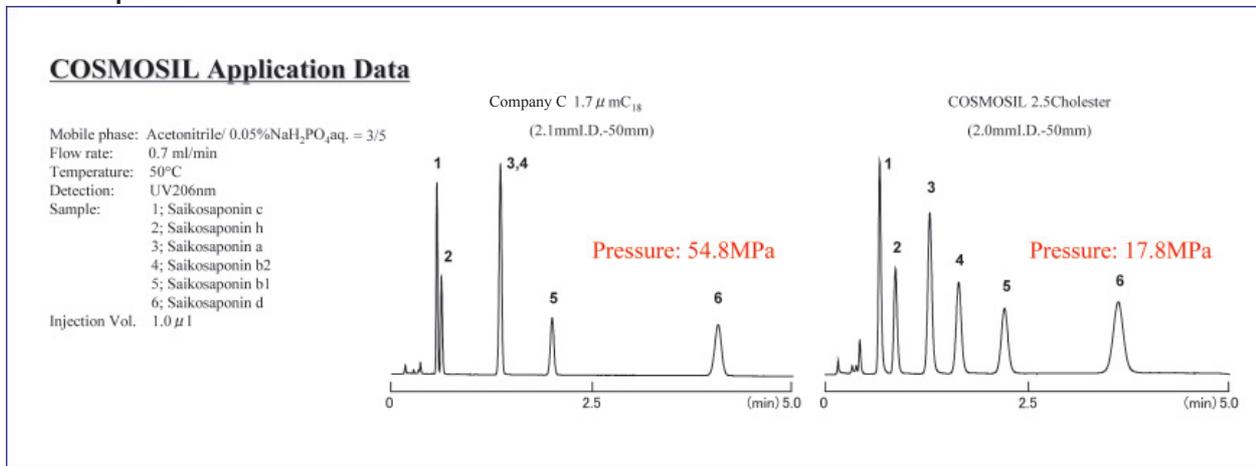
Improved Separation

COSMOSIL 2.5Cholester offers improved resolution for compounds difficult to analyze with C_{18} without changing analytical condition.

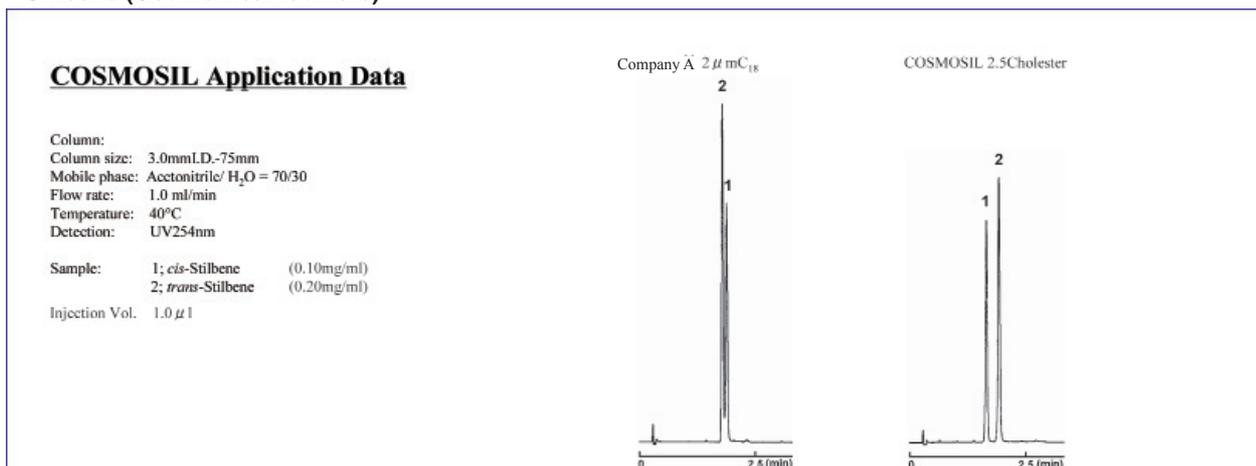
• Catechins



• Saikosaponins



• Stilbene (Geometrical Isomers)

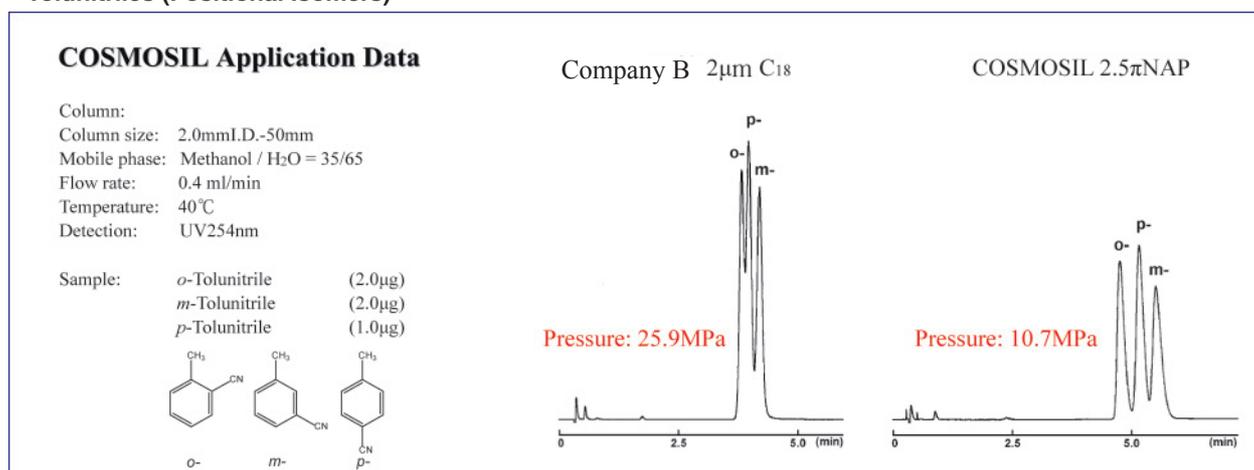


- Low back pressure (2.5 μ m silica gel)
- Naphthalene bonded stationary phase
- Stronger π - π interactions than Phenyl columns

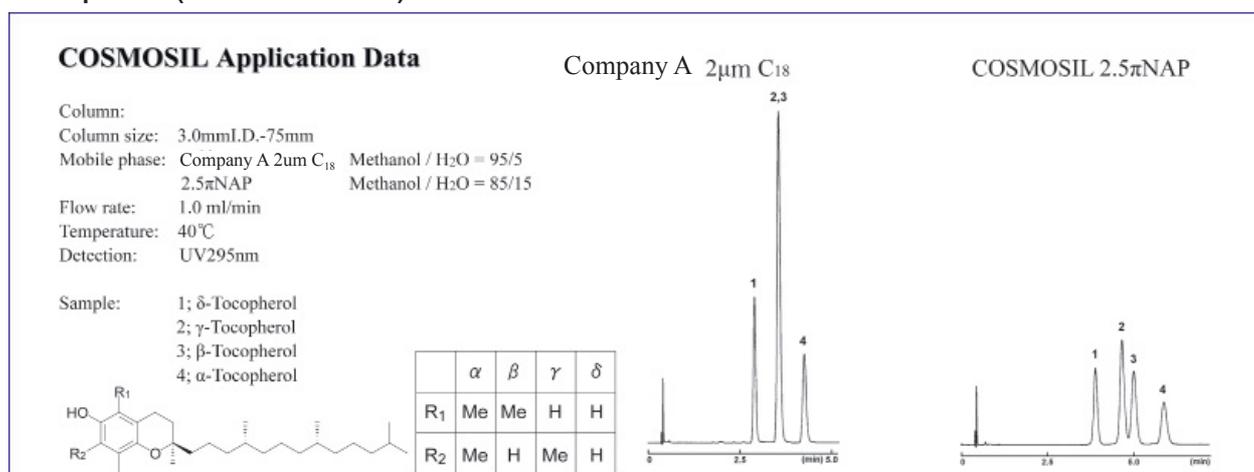
Improved Separation

COSMOSIL 2.5 π NAP provides greater performance in separating positional isomers and other closely related compounds which are difficult to analyze with C₁₈.

• Tolunitriles (Positional Isomers)



• Tocopherols (Positional Isomers)



Ordering Information

Size I.D.×Length (mm)	COSMOSIL 2.5C ₁₈ -MS-II	COSMOSIL 2.5Cholesterol	COSMOSIL 2.5 π NAP
	Product Number	Product Number	Product Number
2.0×50	08994-31	09000-01	06062-91
2.0×75	08995-21	09047-11	06051-31
2.0×100	08996-11	09048-01	06052-21
3.0×50	08997-01	09049-91	06054-01
3.0×75	08998-91	09050-51	06055-91
3.0×100	08999-81	09051-41	06057-71

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