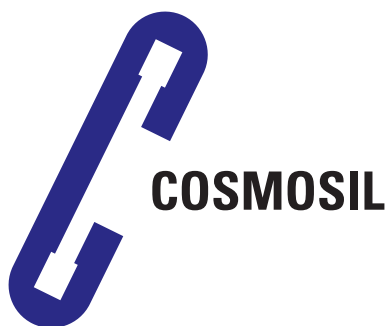


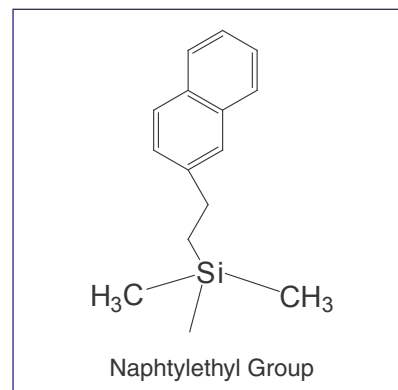


HPLC Column for Structural Isomers

COSMOSIL π NAP

- Naphthalene bonded stationary phase
- Enhanced π - π interactions
- Improved selectivity for structural isomers

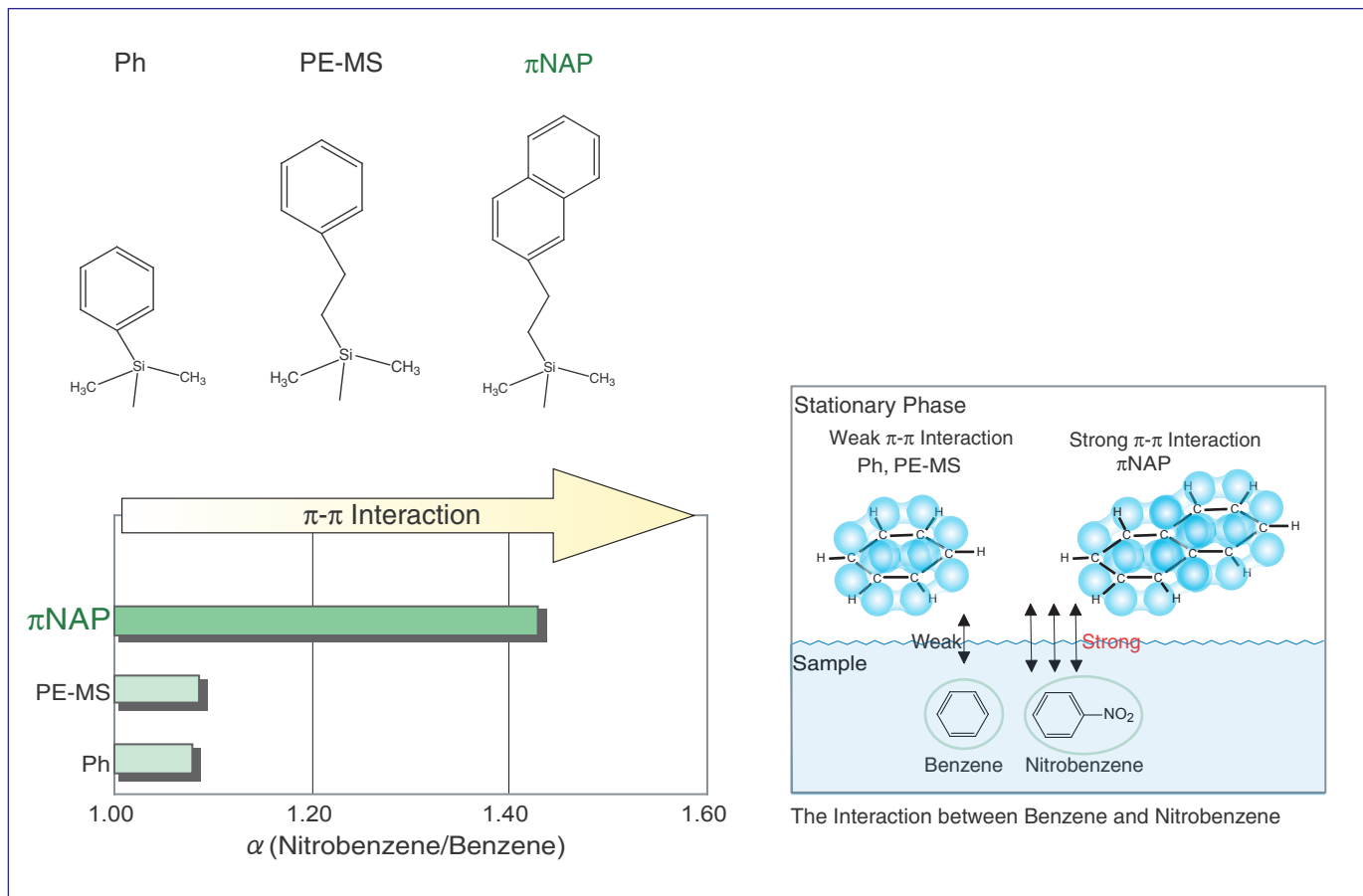
Silica Gel	High Purity Porous Spherical Silica
Average Particle Size	5 μ m
Average Pore Size	approx. 120 Å
Stationary Phase	Naphtylethyl Group
Main Interaction	Hydrophobic Interaction, π - π Interaction
Carbon Content	approx. 11%



COSMOSIL π NAP is a reversed phase HPLC column with Naphtylethyl group bonded silica packing material. The naphthylethyl group is composed of two fused aromatic rings and forms strong π - π interactions with unsaturated compounds. This column offers improved separation of compounds such as positional isomers that are difficult to analyze with alkyl group bonded materials.

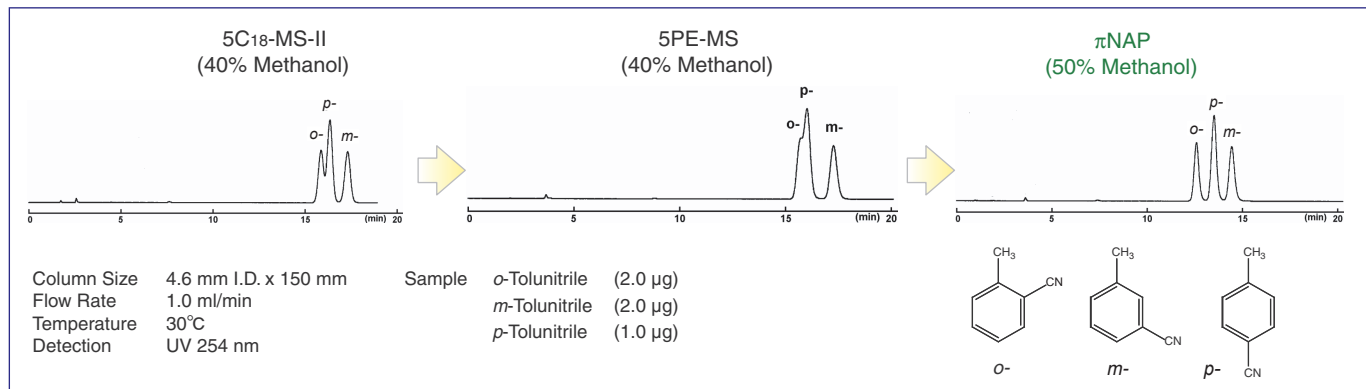
Comparison with Phenyl Columns

COSMOSIL π NAP with two aromatic rings has stronger π - π interactions than phenyl column which has one aromatic ring.

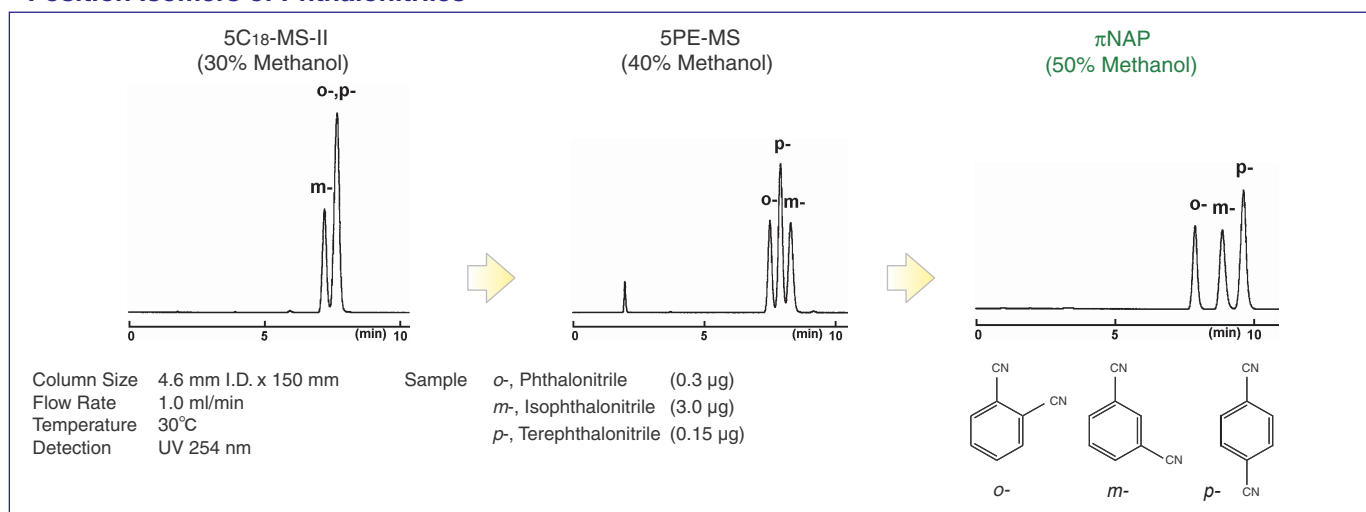


Application Data

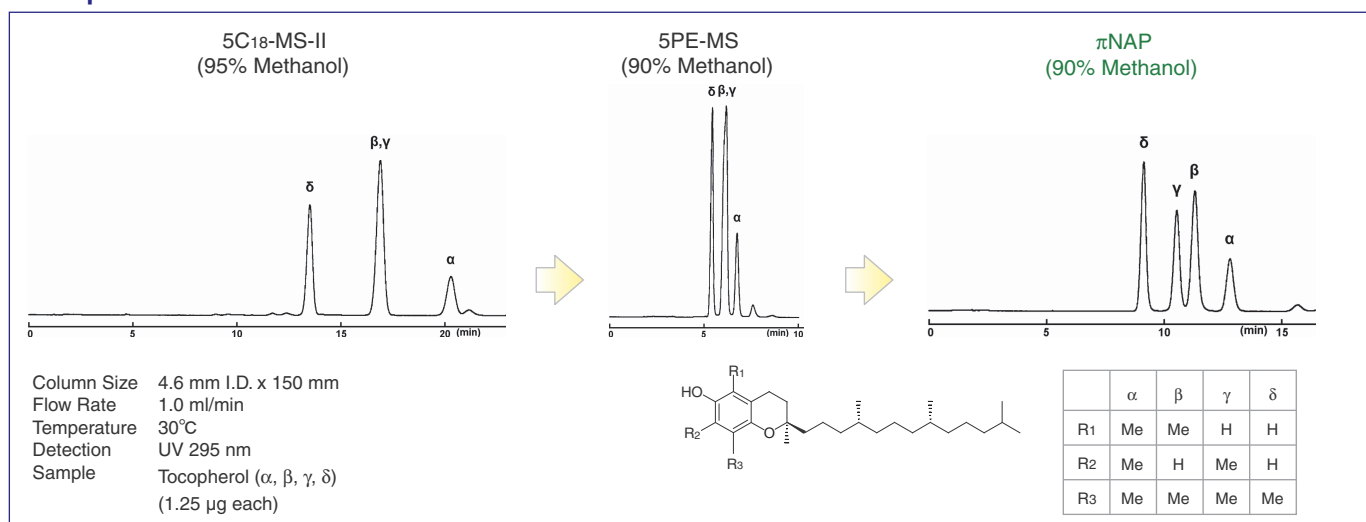
Position Isomers of Tolunitriles



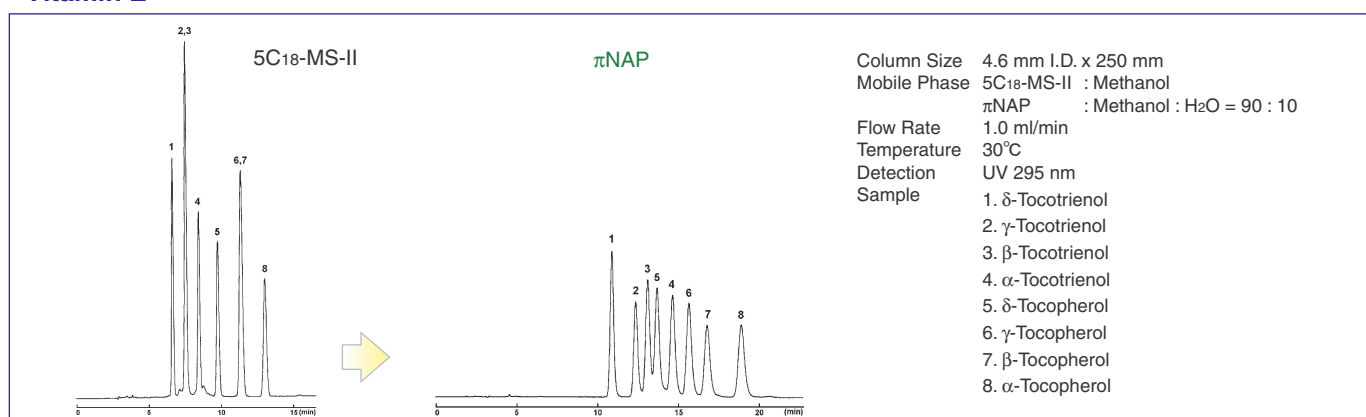
Position Isomers of Phthalonitriles



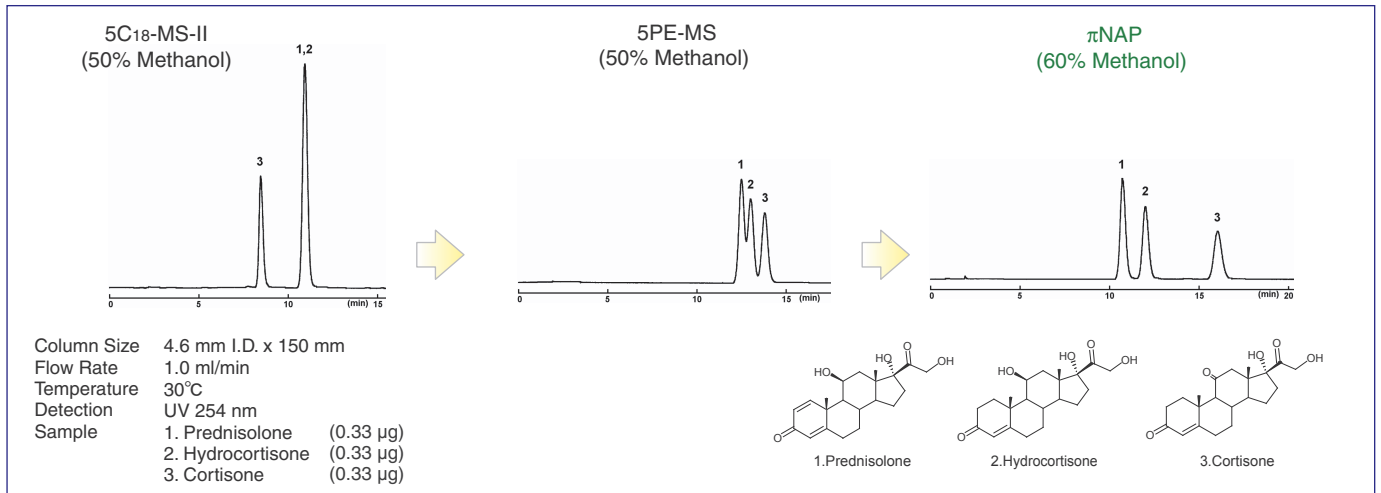
Tocopherols



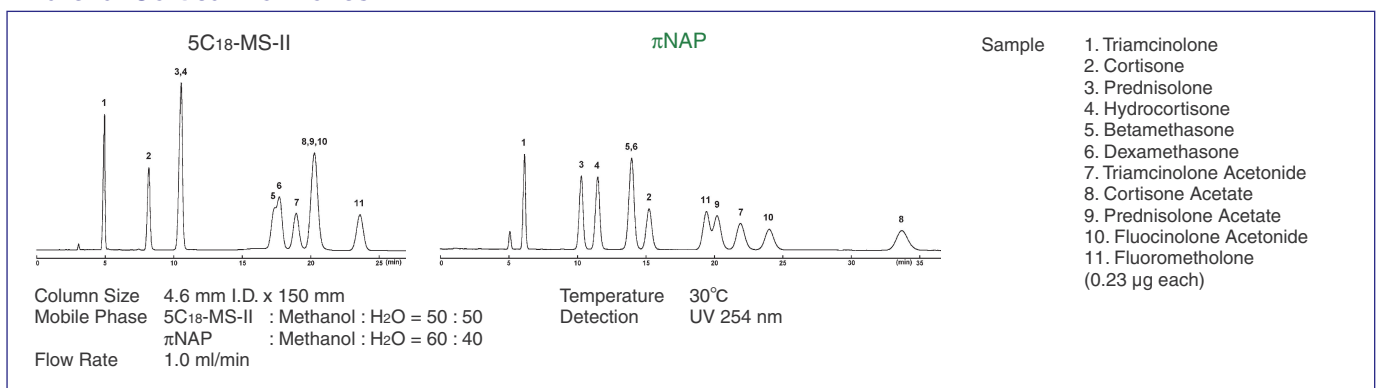
Vitamin E



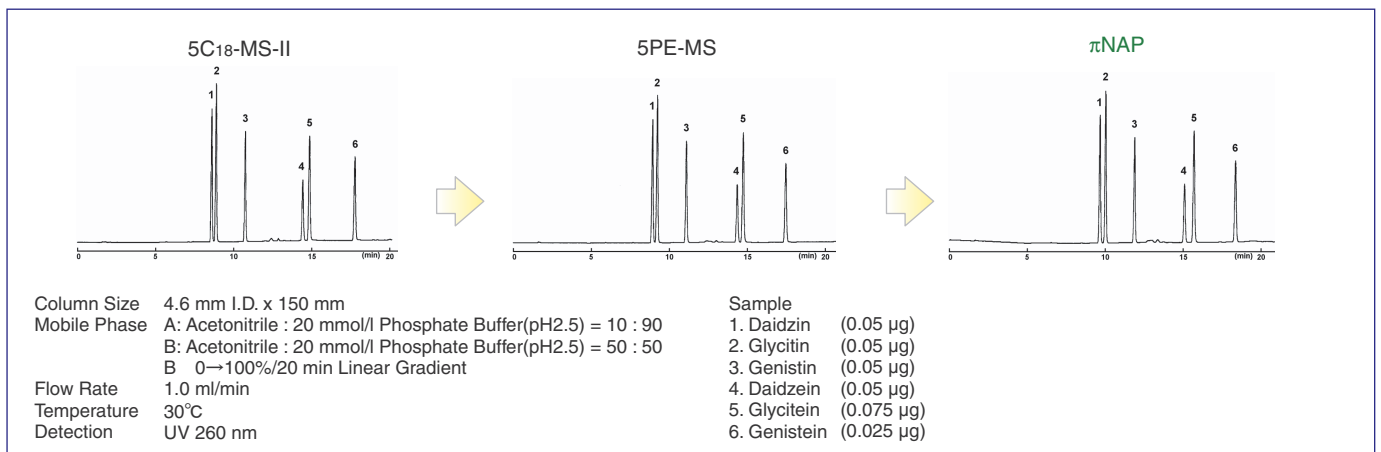
• Adrenal Cortical Hormones



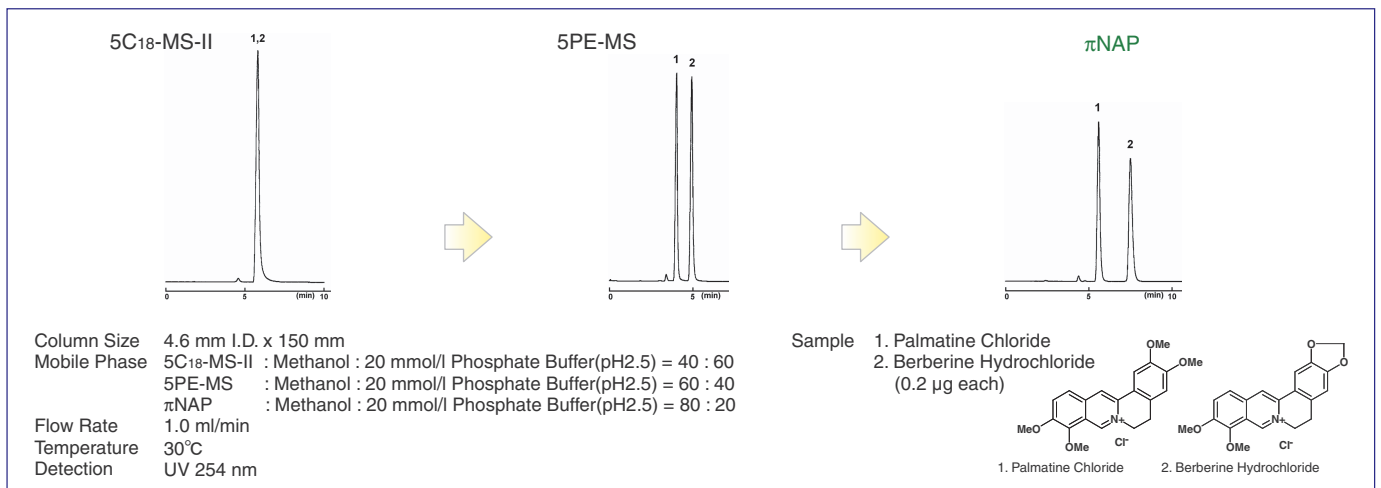
• Adrenal Cortical Hormones



• Isoflavones



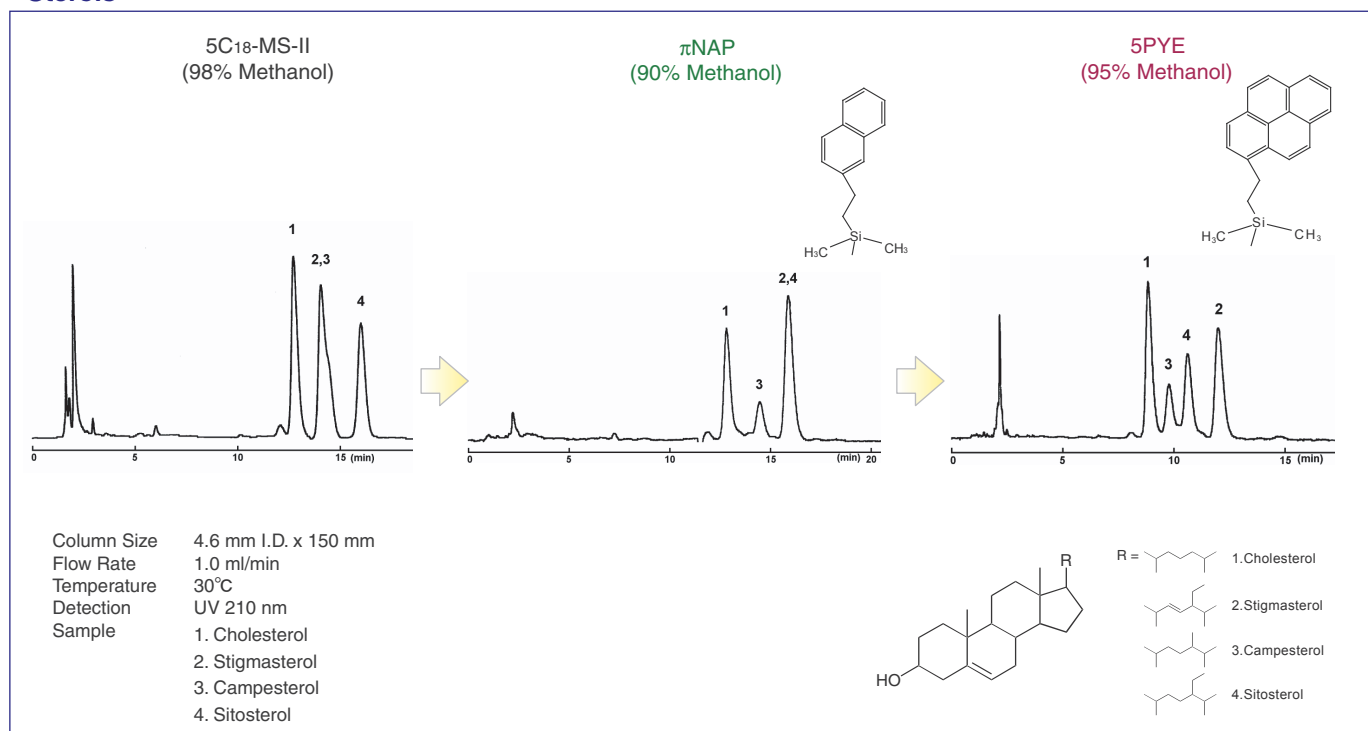
• Berberines



Further Separation

COSMOSIL PYE is a packed column with pyrene bonded silica packing material. It has stronger π - π interaction than π NAP since pyrene has four aromatic rings.

• Sterols



Ordering Information

Product Name	Column Size	Product Number	Product Name	Column Size	Product Number
COSMOSIL π NAP	1.0 mm I.D. x 150 mm	08076-61	COSMOSIL π NAP	4.6 mm I.D. x 10 mm	08082-71
Packed Column	1.0 mm I.D. x 250 mm	08077-51	Guard Column	10.0 mm I.D. x 20 mm	08087-21
	2.0 mm I.D. x 30 mm	08566-41		20.0 mm I.D. x 20 mm	08090-61
	2.0 mm I.D. x 50 mm	08567-31		20.0 mm I.D. x 50 mm	08091-51
	2.0 mm I.D. x 100 mm	08299-51		28.0 mm I.D. x 50 mm	08094-21
	2.0 mm I.D. x 150 mm	08078-41			
	2.0 mm I.D. x 250 mm	08079-31			
	3.0 mm I.D. x 150 mm	08080-91			
	3.0 mm I.D. x 250 mm	08081-81			
	4.6 mm I.D. x 150 mm	08085-41			
	4.6 mm I.D. x 250 mm	08086-31			
	10.0 mm I.D. x 150 mm	08088-11			
	10.0 mm I.D. x 250 mm	08089-01			
	20.0 mm I.D. x 150 mm	08092-41			
	20.0 mm I.D. x 250 mm	08093-31			
	28.0 mm I.D. x 250 mm	08095-11			

Other size may be available. Please enquire.

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