

COSMOSIL π NAP

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

Comparison of π - π interactions

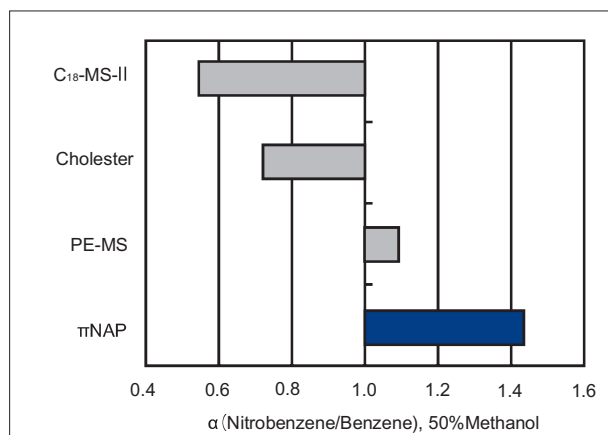


Figure. Comparison of π - π interaction

COSMOSIL π NAP shows stronger π - π interactions than phenyl columns. Its two fused aromatic rings retain nitrobenzene with more π electrons stronger than phenyl columns.

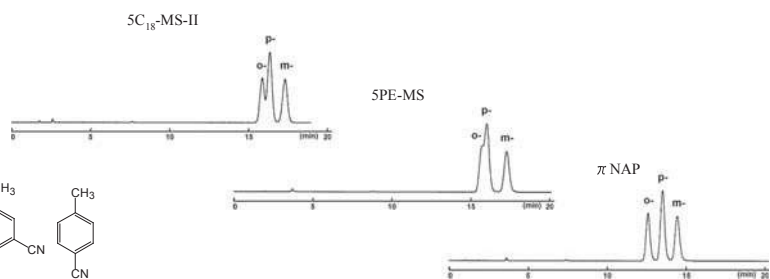
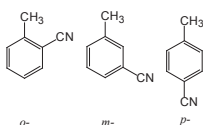
Applications

- Tolunitriles

COSMOSIL Application Data

Column: 5C₁₈-MS-II
 Column size: 4.6mm I.D.-150mm
 Mobile phase: 5C₁₈-MS-II Methanol/ H₂O = 40/60
 5PE-MS Methanol/ H₂O = 40/60
 π NAP Methanol/ H₂O = 50/50
 Flow rate: 1.0 ml/min
 Temperature: 30°C
 Detection: UV254nm

Sample: *o*-Tolunitrile (2.0 μ g)
m-Tolunitrile (2.0 μ g)
p-Tolunitrile (1.0 μ g)



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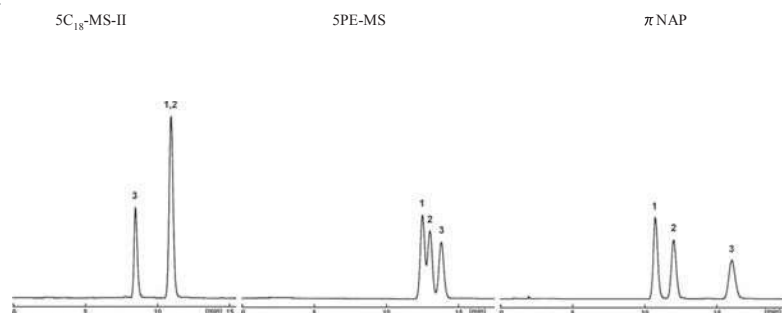
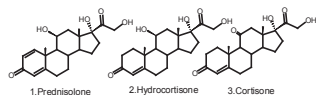
AP-1022

- Adrenal Cortical Hormones

COSMOSIL Application Data

Column: 5C₁₈-MS-II
 Column size: 4.6mm I.D.-150mm
 Mobile phase: 5C₁₈-MS-II Methanol/ H₂O = 50/50
 5PE-MS Methanol/ H₂O = 50/50
 π NAP Methanol/ H₂O = 60/40
 Flow rate: 1.0 ml/min
 Temperature: 30°C
 Detection: UV254nm

Sample: 1; Prednisolone (0.33 μ g)
 2; Hydrocortisone (0.33 μ g)
 3; Cortisone (0.33 μ g)

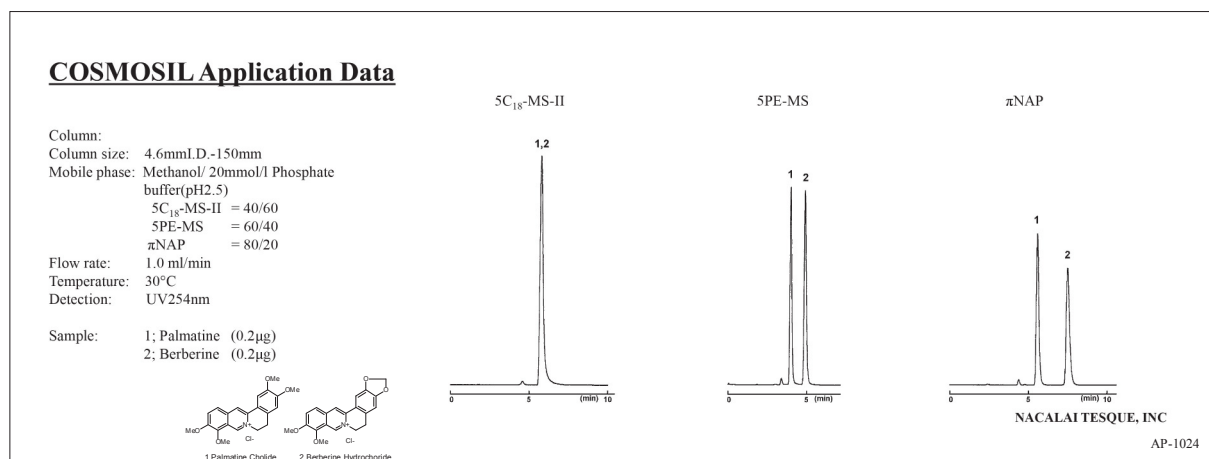


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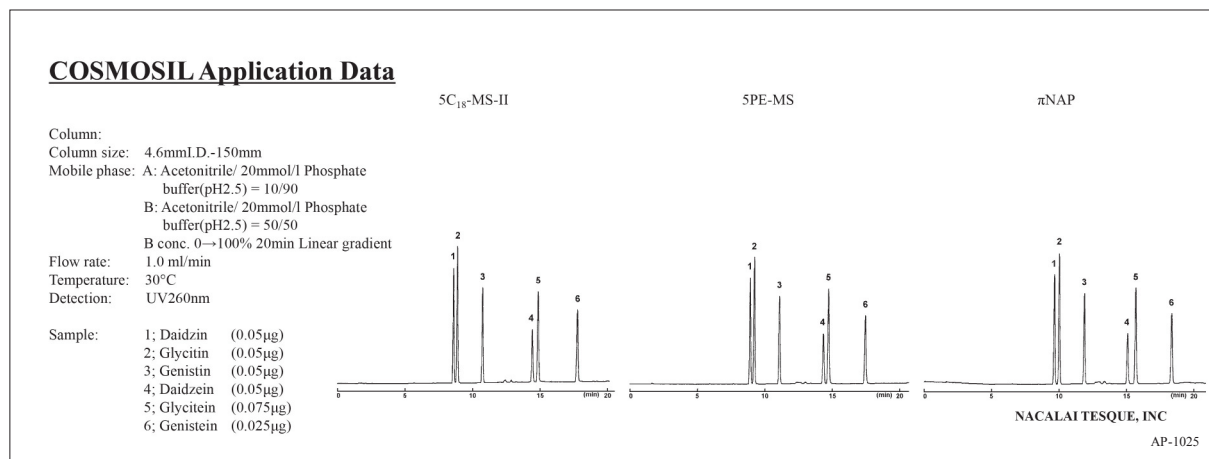
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Applications

• Berberines



• Isoflavones



Ordering Information

• Analytical / Preparative Column (Particle Size: 5 μm)

COSMOSIL πNAP Packed Column

Column Size I.D. x Length (mm)	Product Number
1.0 x 150	08076-61
1.0 x 250	08077-51
2.0 x 30	08566-41
2.0 x 50	08567-31
2.0 x 100	08299-51
2.0 x 150	08078-41
2.0 x 250	08079-31
3.0 x 150	08080-91

Column Size I.D. x Length (mm)	Product Number
3.0 x 250	08081-81
4.6 x 150	08085-41
4.6 x 250	08086-31
10 x 150	08088-11
10 x 250	08089-01
20 x 150	08092-41
20 x 250	08093-31
28 x 250	08095-11

COSMOSIL πNAP Guard Column

Column Size I.D. x Length (mm)	Product Number
4.6 x 10	08082-71
10 x 20	08087-21
20 x 20	08090-61
20 x 50	08091-51
28 x 50	08094-21

For more information on 2.5πNAP (2.5 μm), please refer to page 62.