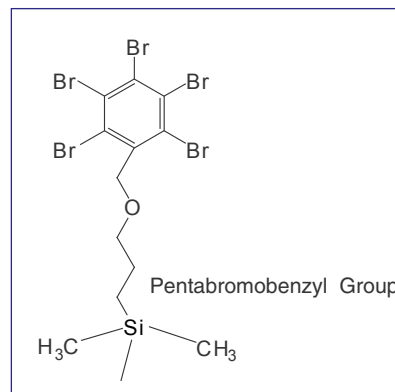


HPLC Column for Structurally Similar Compounds

COSMOSIL PBB-R

- Pentabromobenzyl bonded stationary phase
- Separation with dispersion force interaction

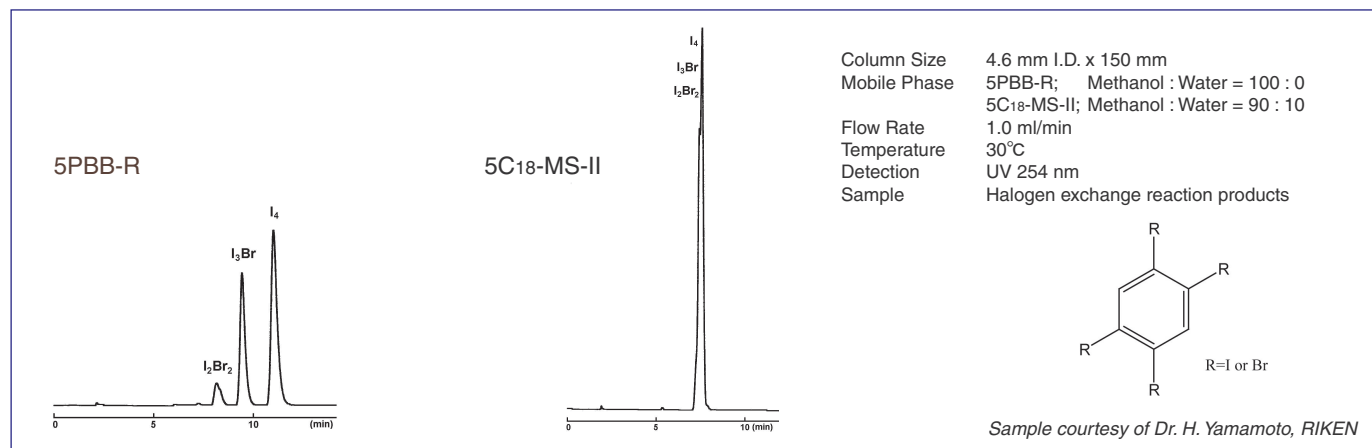
Silica Gel	High Purity Porous Spherical Silica
Average Particle Size	5 μm
Average Pore Size	approx. 120 \AA
Stationary Phase	Pentabromobenzyl Group
Main Interaction	Hydrophobic Interaction, Dispersion Force
Carbon Content	approx. 8%



COSMOSIL PBB-R is a reversed phase column with Pentabromobenzyl groups bonded silica packing material. This column provides unique selectivity for structurally similar compounds utilizing the dispersion force interaction. The dispersion force interaction of COSMOSIL PBB-R makes it useful for separation of structural isomers differing only by a double bond.

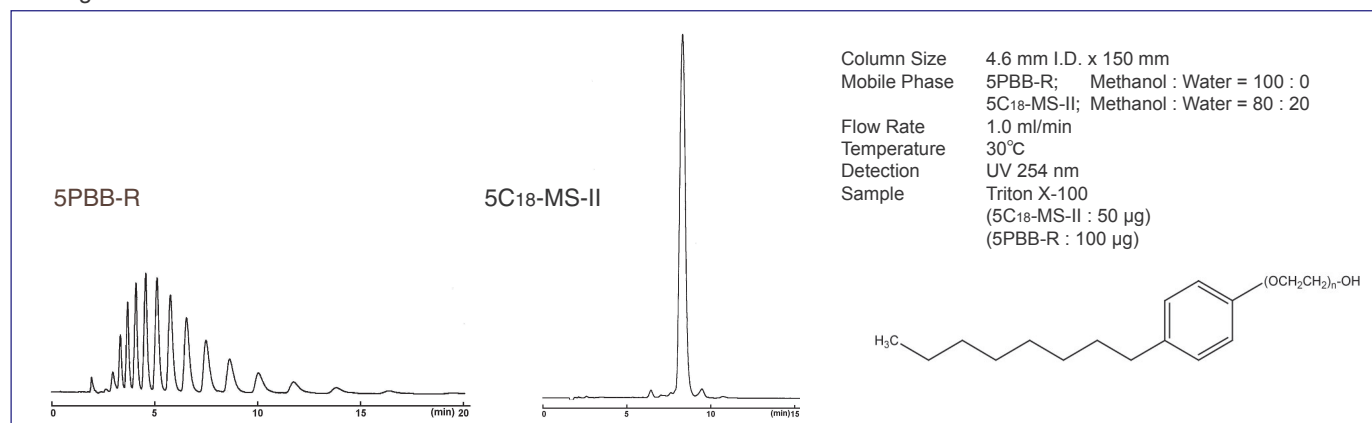
Halogen Exchange Reaction Products

COSMOSIL PBB-R strongly retains iodine atom which has a large dispersion force, than bromine atom. So it can separate halogen exchange reaction products that are difficult to analyze with C₁₈ column.

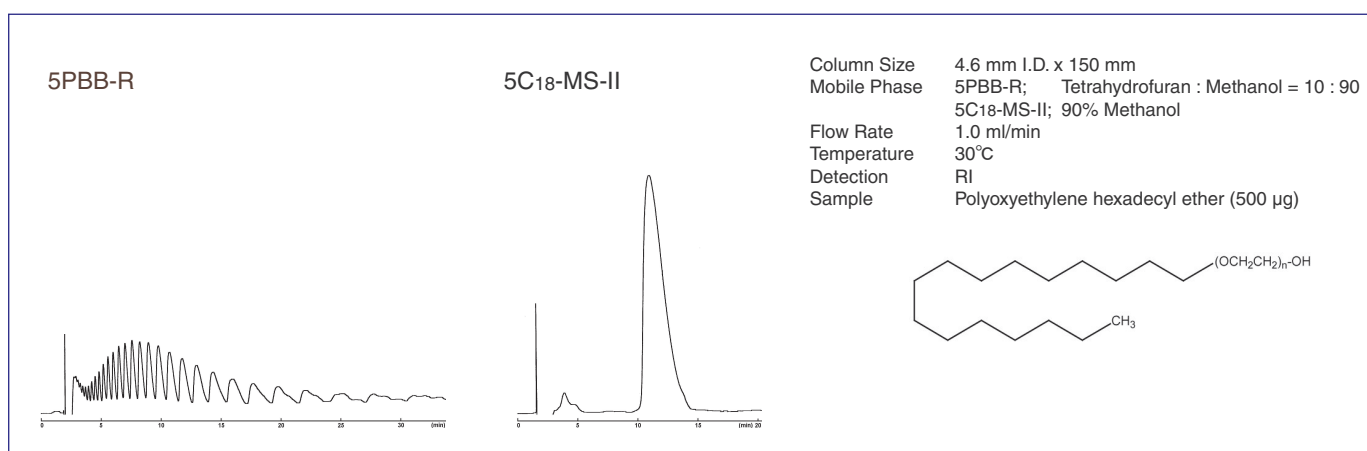
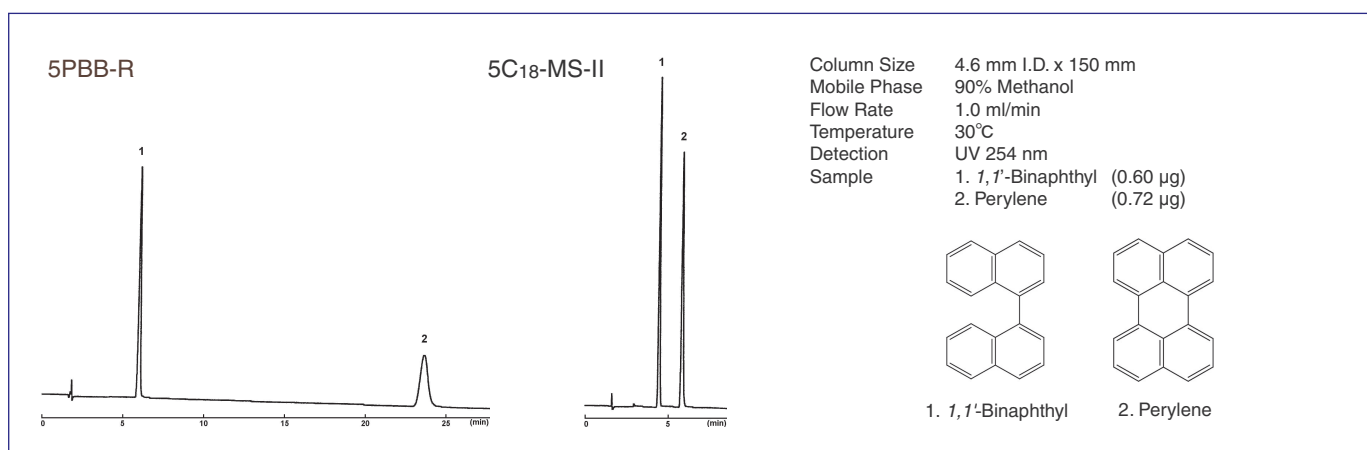
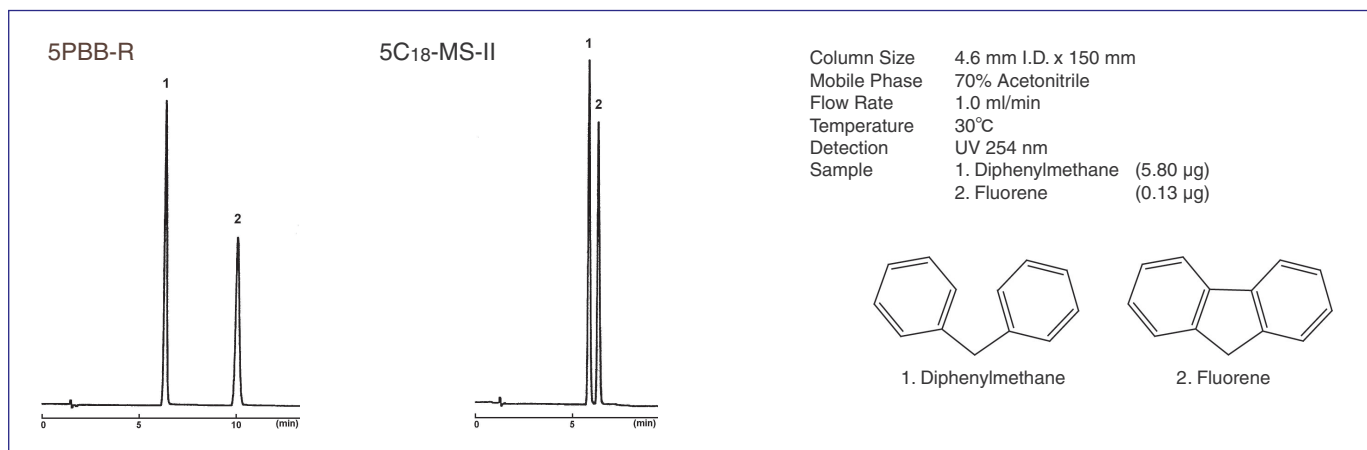


Surfactant Agents

ODS(C₁₈) column can not separate Triton X-100 mixture, because (-OCH₂CH₂-) group has little hydrophobicity. However, COSMOSIL PBB-R can separate them because it distinguishes difference in the dispersion force, which depends on its molecular weight.



Application Data



Ordering Information

Product Name	Column Size	Product Number
COSMOSIL 5PBB-R	1.0 mm I.D. x 150 mm	05899-81
Packed Column	2.0 mm I.D. x 150 mm	05900-31
	2.0 mm I.D. x 250 mm	05904-91
	4.6 mm I.D. x 150 mm	05697-21
	4.6 mm I.D. x 250 mm	05698-11
	10.0 mm I.D. x 250 mm	05699-01
	20.0 mm I.D. x 250 mm	05700-51

Product Name	Column Size	Product Number
COSMOSIL 5PBB-R	4.6 mm I.D. x 10 mm	05704-11
Guard Column	10.0 mm I.D. x 20 mm	05721-81
	20.0 mm I.D. x 20 mm	05911-91
	20.0 mm I.D. x 50 mm	05722-71

Other size may be available. Please enquire.

For research use only, not intended for diagnostic or drug use.