

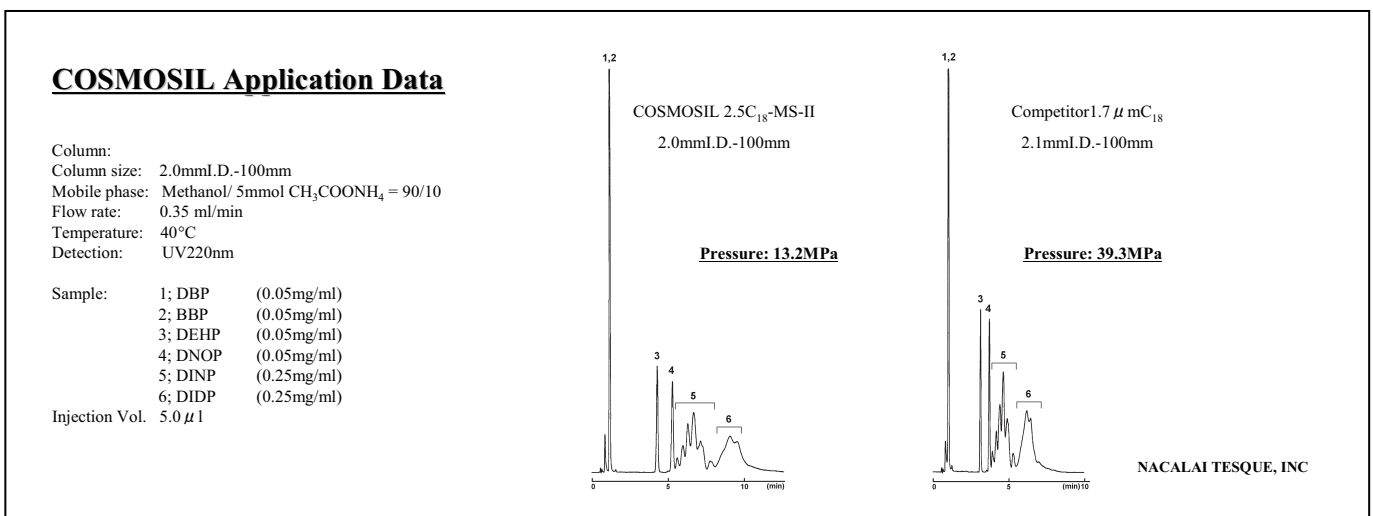
DEHP Analysis - COSMOSIL 2.5 Series

COSMOSIL UHPLC columns with 2.5 μm particle enables separation of DEHP (Bis(2-ethylhexyl)phthalate).

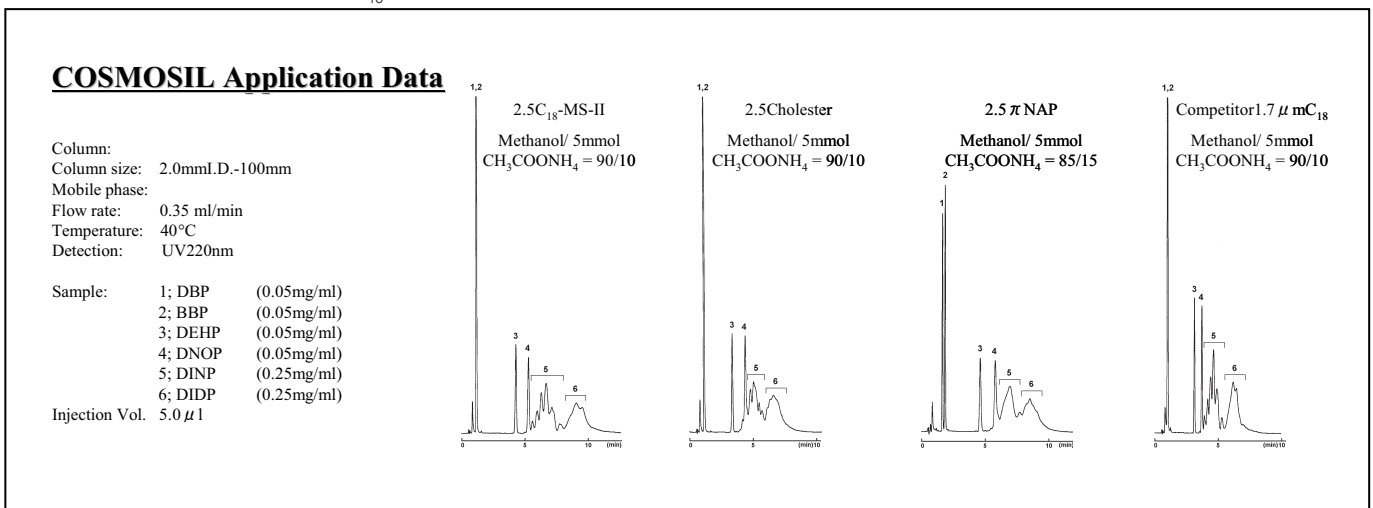
Packing Material	2.5C ₁₈ -MS-II	2.5Cholester	2.5 π NAP
Silica Gel	High Purity Porous Spherical Silica		
Average Particle Size	2.5 μm		
Average Pore Size	approx. 130 \AA		
Specific Surface Area	approx. 330 m^2/g		
Stationary Phase	Octadecyl Group	Cholesteryl Group	Naphtylethyl Group
Bonding Type	Monomeric		
Main Interaction	Hydrophobic Interaction	Hydrophobic Interaction Molecular Shape Selectivity	Hydrophobic Interaction π - π Interaction
End Capping Treatment	Near-perfect Treatment		

■ Analysis with Ammonium Acetate (Taiwan FDA condition)

COSMOSIL 2.5C₁₈-MS-II shows an equivalent chromatogram compared with competitors' 1.7 μm column. 2.5C₁₈-MS-II has a longer retention time. Moreover, 2.5C₁₈-MS-II can be used under 1/3 pressure of competitor's 1.7 μm column. This is the pressure within the range of conventional HPLC equipment.

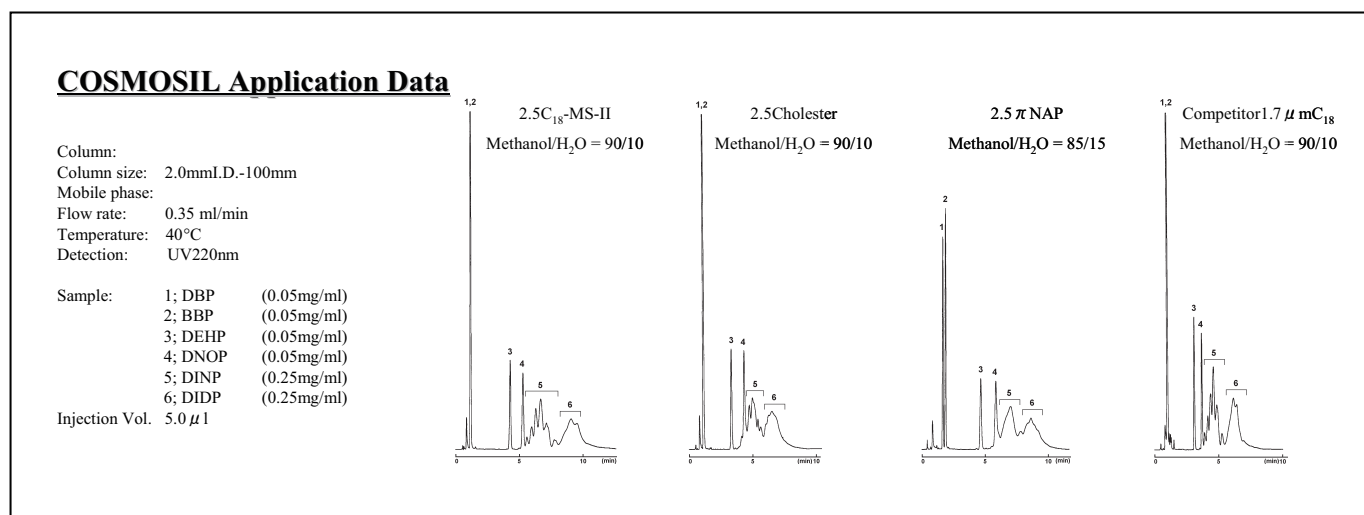
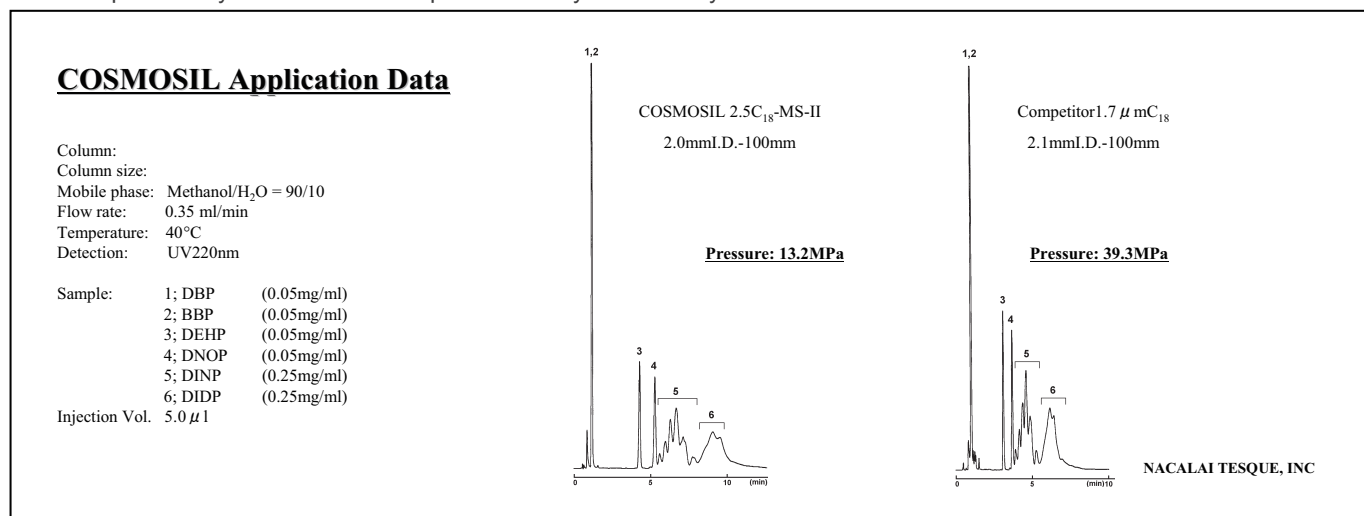


COSMOSIL 2.5 π NAP enables separation of DBP(Dibutyl Phthalate)(Sample 1) and BBP (Butyl Benzyl Phtharate)(Sample 2) that are difficult to separate with C₁₈ columns.



■ Analysis without Ammonium Acetate

Taiwan FDA condition offers an analysis with 5 mmol/l ammonium acetate by LC/MS/MS to increase sensitivity. However the amount of DEHP in this case is enough to detect by UV-absorption. The followings are analysis without ammonium acetate by UV-adsorption. They show the same separation ability as the analysis with ammonium acetate.



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