

SP-100-ODS-P
DAISOGEL **High Surface Area** Series



- **High Surface Area and Optimum Porosity**

Surface Area: **450 m²/g**

Pore Diameter: **100 Å**

Pore Volume: **1.10 ml/g**

- **Narrow Pore Size Distribution**

Suitable for Various Chemical Bondings

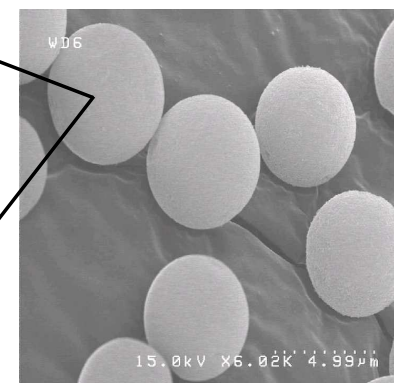
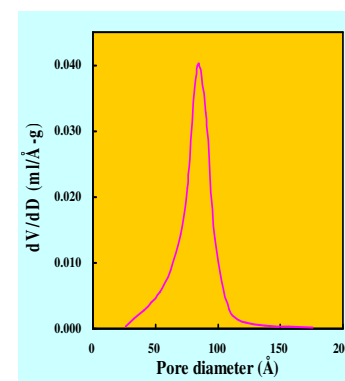
- **Optimum ODS-Bonding Density**

Realizing Superior Retentivity for both Hydrophobic and Hydrophilic Compounds

- **Well-Defined Endcapping**

Better Peak Symmetry for Basic Analysts

Stable Phase against Acidic and Basic Conditions



SP-100-ODS-P

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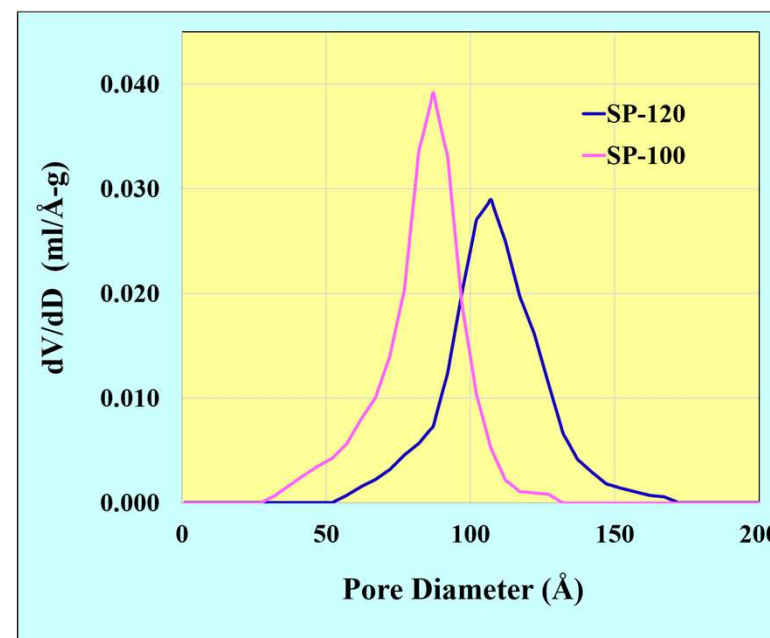


Optimum Porosity

Porosity Comparison

Grade	Pore Diameter (Å)	Surface Area (m ² /g)	Pore Volume (ml/g)
SP-100	100	450	1.10
SP-120	130	300	1.00

Pore Size Distribution



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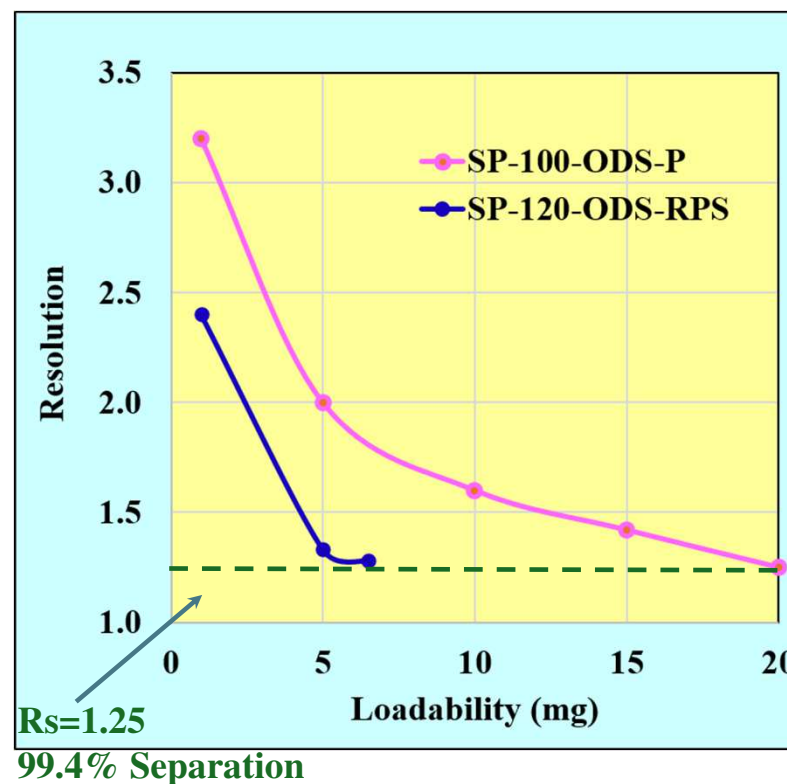


Maximum Loadability Comparison

Grade	Maximum Loadability (mg)
SP-100-ODS-P	19.7
SP-120-ODS-RPS	7.0

Packing: 5 mm Particles, 17% Carbon Content;
Column: 4.6 mm I.D. x 150 mm;
Mobile Phase: CH₃OH/H₂O=70/30;
Flow Rate: 1.0 ml/min;
Temperature: 30° C; **Detector:** UV 254 nm;
Solutes: Methyl Benzoate/Ethyl Benzoate (1/1).

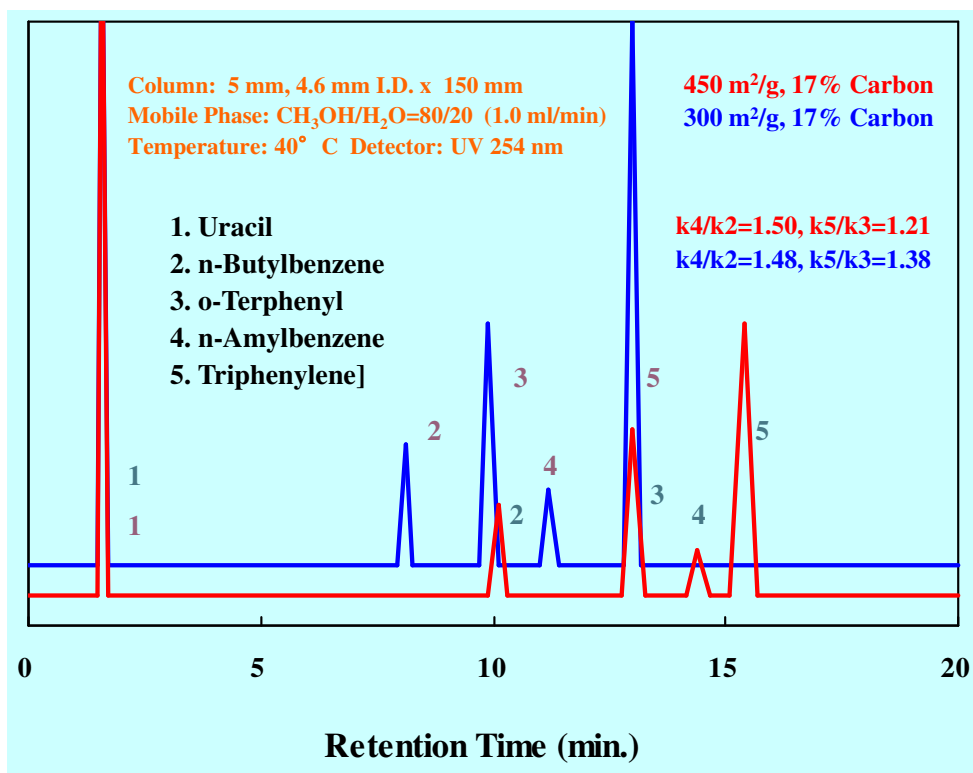
Resolution-Loadability Correlation



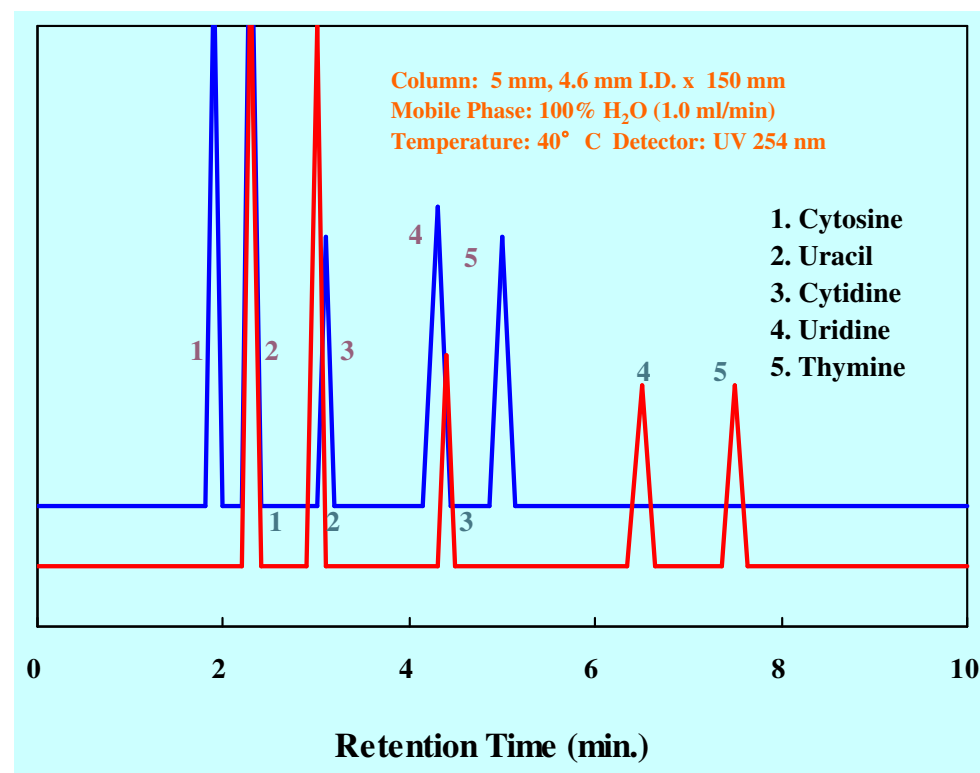
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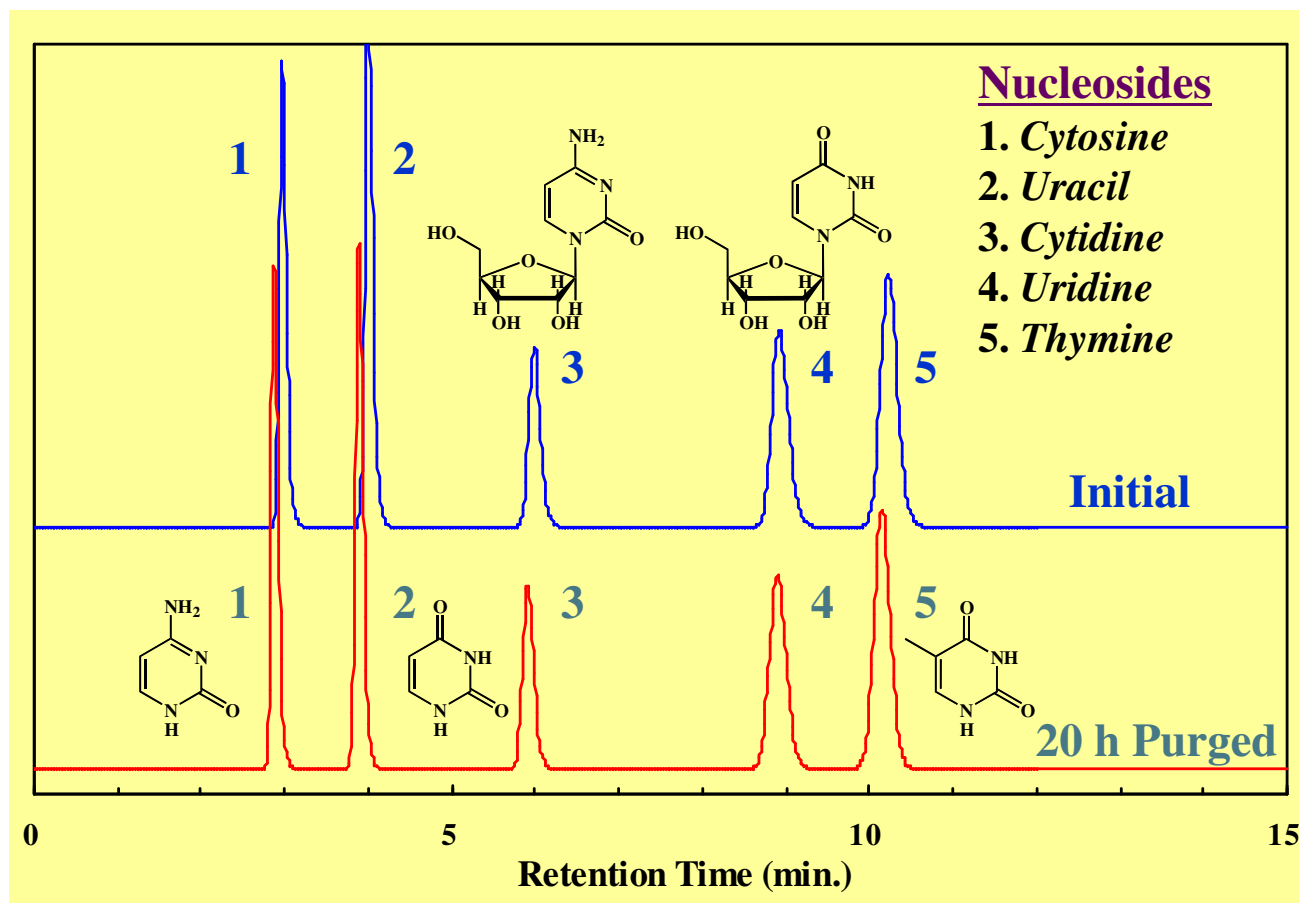
Aromatic Hydrocarbons



Nucleosides



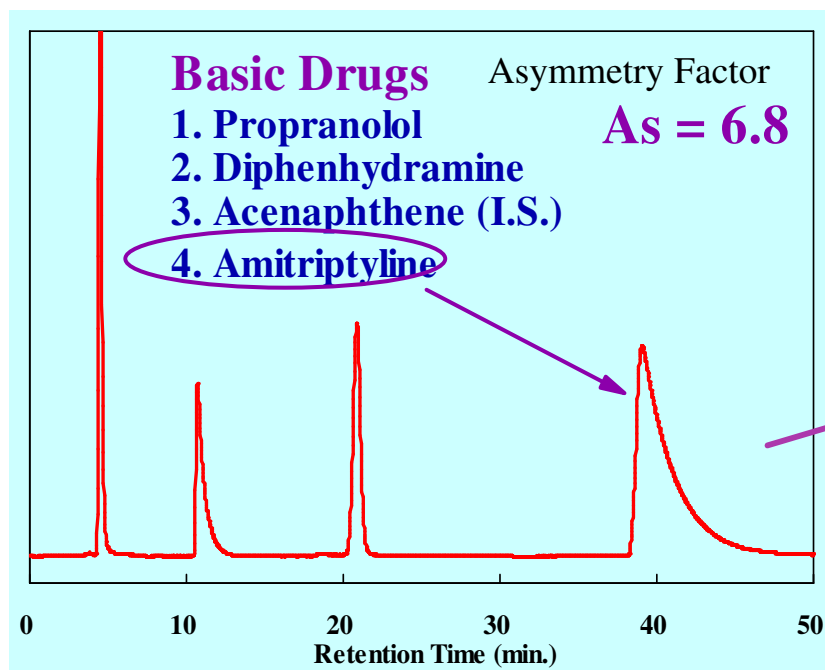
No Hydrophobic Collapse in 100% H₂O Mobile Phase



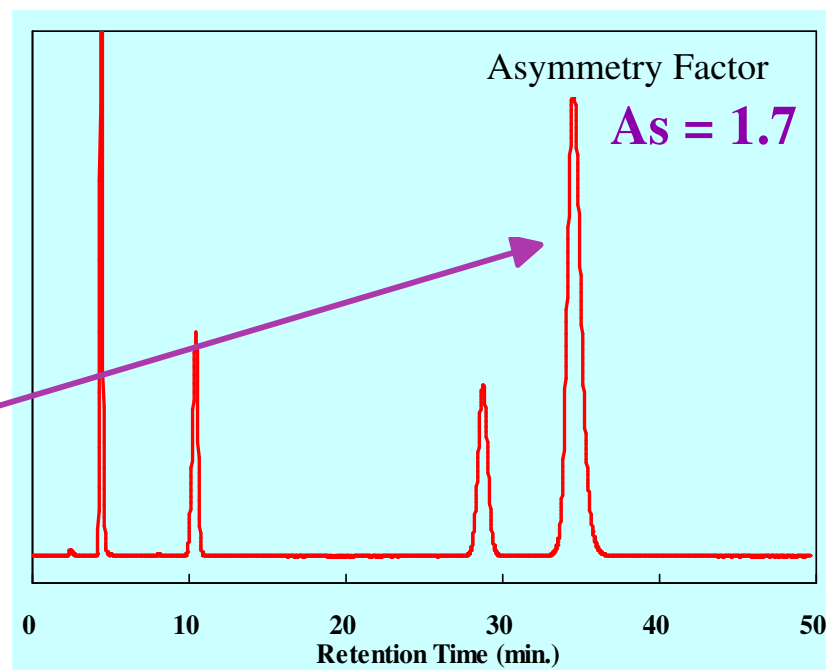
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Conventional Endcap



NEW Endcap



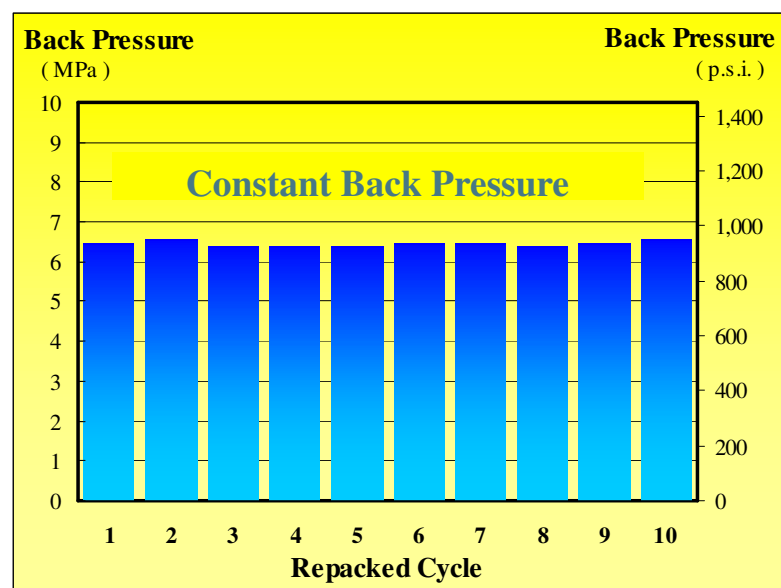
※ Analytical Grade

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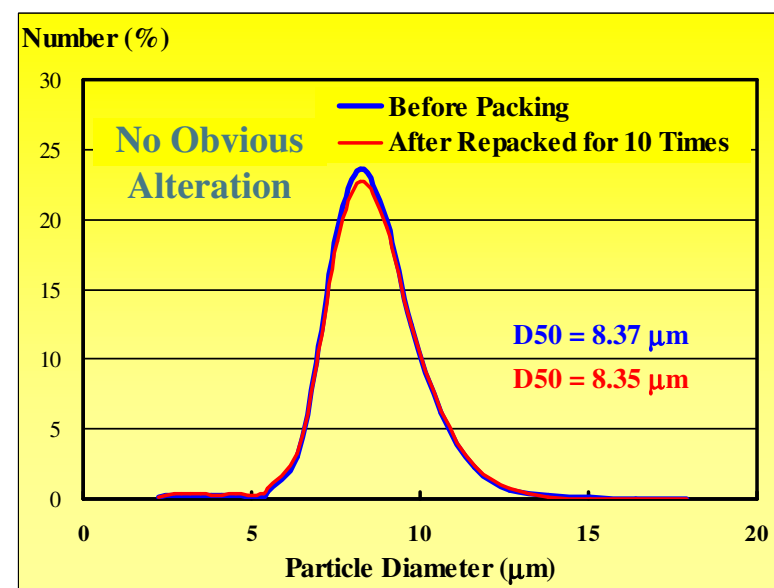


Mechanical Strength for DAC Column

Back Pressure in Repacking



Particle Size Alteration



Material: SP-100-10P (Lot No. 021118TSP); **Column:** Dynamic Axial Compression Column (50 mm I.D.);
Bed Length: 23 cm (Packed 170 g of Silica Gel); **Mobile Phase:** 2-Propanol (20° C); **Flow Rate:** 150 ml/min;
Piston Pressure: 10 MPa (100 Bar).
Particle Size Distribution: measured by means of Coulter Counter.