Product Data Sheet

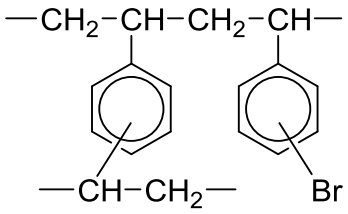
SEPABEADS™ SP207SS

SEPABEADS™ SP207SS is a small size grade based on SEPABEADS™ SP207. It has higher hydrophobicity and greater selectivity for non-polar molecules, which is derived from chemically bonded bromine to the aromatic rings, than standard aromatic adsorbents. It is applied to reversed phase chromatography.

SEPABEADS™ SP207SS is characterized by:

>> Unique chemical structure and higher hydrophobicity
>> High performance for chromatography
>> High chemical and physical stability
>> Excellent batch-to-batch reproducibly
>> Wide application

Physical and chemical properties

Grade Name		SEPABEADS™ SP207SS
Bead Form		Spherical, porous
Matrix		Modified polystyrene/divinylbenzene
Chemical Structure		
Shipping Density*	g/L	790
Water Content	%	43 - 53
Particle Size Distrubution on 150 µm	%	15 max.
Particle Size Distribution 63 - 150 µm	%	70 min.
Particle Size Distribution thr. 63 µm	%	20 max.
Particle Density*	g/mL	1.18
Specific Surface Area*	m^2/g	590
Pore Volume*	mL/g	1.0
Pore Radius*	Å	110

Note : properties with a mark "*" are referential data.

Swelling ratio in various solvents

Methanol	1.11
Ethanol	1.17
2-Propanol	1.19
Acetone	1.20
Toluene	1.19
Acetonitrile	1.20
Water	1.00

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Pore size distribution

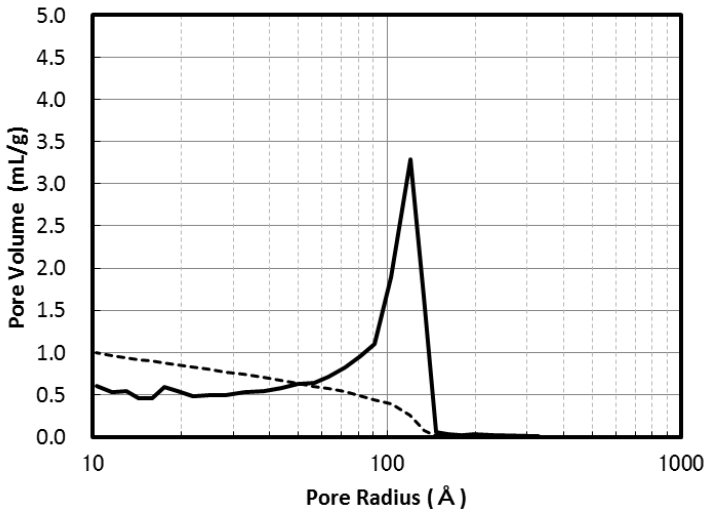

Fig. 1 Pore size distribution of SP207SS

Recommended Operating Conditions

Maximum Operating Temperature	°C	130
Operating pH Range		0 - 14
Minimum Bed Depth	mm	800
Flow rate	BV/h	Loading 0.5 - 5
	BV/h	Displacement 0.5 - 2
	BV/h	Regeneration 0.5 - 2
	BV/h	Rince 1 - 5
Regenerant		
		Organic solvents for hydrophobic compounds
		Bases for acidic compounds
		Acids for basic compounds
		Buffer solution for pH sensitive compounds
		Water for an ionic solution
		Hot steam for volatile compounds

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Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of SEPABEADS™ SP207SS resin in normal down flow operation is shown in the graph below.

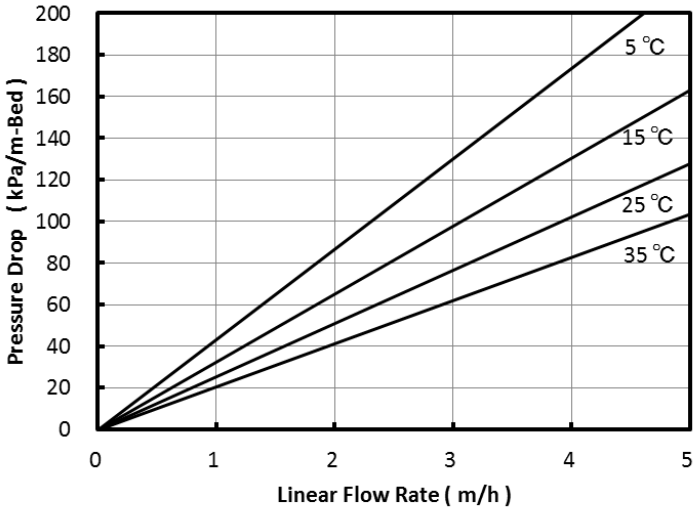

Fig. 2 Pressure Drop of SP207SS

Applications

- Purification of small peptides, oligonucleotides and proteins
- Adsorption of vitamins, antibiotics, enzymes, steroids and other substance from fermentation solutions
- Decolorization of various sugar solutions
- Adsorption of fatty acids
- Removal of phenol
- Adsorption of various perfume
- Decolorization and purification of various chamicals

Notice

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