

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.

Product

Grade Name	SEPABEADS™ SP207SS
Type	Synthetic Adsorbents
Matrix	Modified Styrene-DVB, Porous

Specification

Water content	%	43 - 53
Particle Size Distribution on 150 µm	%	15 max.
Particle Size Distribution 63 - 150 µm	%	70 min.
Particle Size Distribution thr. 63 µm	%	20 max.

Properties

Shipping Density	g/L	790
Particle Density	g/mL	1.18
Specific Surface Area	m ² /g	590
Pore Volume	mL/g	1.0
Pore Radius	Å	110

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	Rinse 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


Biokal

© +31529485928

Chromatography & Purification Solutions


 info@biokal.com
<https://www.biokal.com>

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Pore size distribution

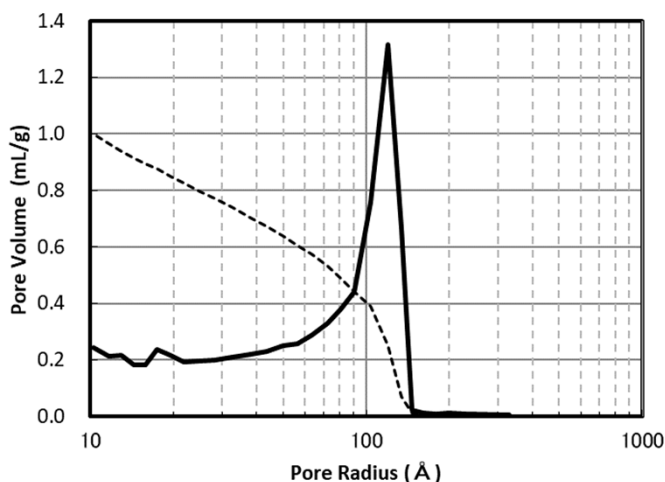


Fig. 1 Pore size distribution of SP207SS

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

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 graphs below.

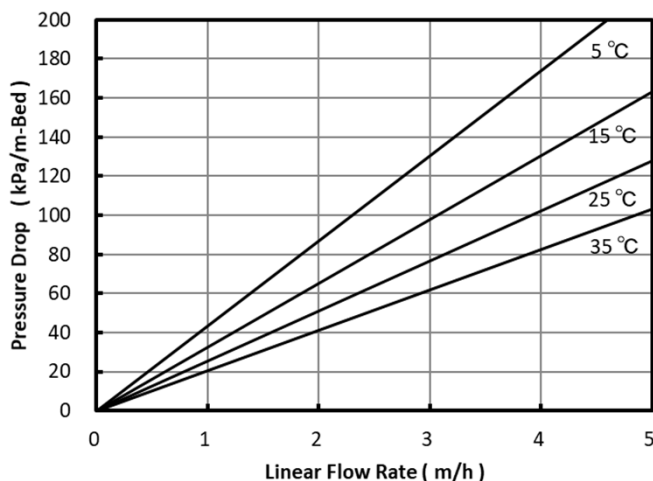


Fig. 2 Pressure Drop of SP207SS



Indicative 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 chemicals

Storage condition

Synthetic adsorbents are at high risk of mold growth. Accordingly, synthetic adsorbents should be stored properly. Properly stored synthetic adsorbent resins may be stored for up to one year after production before the onset of any mold growth is detected. Optimal storage is with a 20% alcohol solution such as ethanol or isopropanol. A 10% or higher concentration of salt solution, such as NaCl, is also recommended to preserve new or used resin for storage. In case salt cannot be used, a 0.01 to 0.02 N NaOH solution may be acceptable as mold cannot withstand survival at pH higher than 12. Storage at freezing temperatures should be avoided as it may cause breakage or crush certain resin particles.

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