Product Data Sheet SEPABEADS[™] S

SP207

SEPABEADS[™] SP207 is modified highly porous synthetic adsorbents. 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 suitable for upward flow and batch processes due to its high particle density.

Product		
Grade Name	SEPABEADS [™] SP207	
Туре	Synthetic Adsorbents	
Matrix	Мо	dified Styrene-DVB, Pourous
Specification		
Whole Bead Count	-	95 min.
Water content	%	43 - 53
Particle Size Distribution thr. 250 μm	%	10 max.
Effective size	mm	0.25 min.
Uniformity Coefficient	-	1.6 max.
Properties		
Shipping Density	g/L	790
Particle Density	g/mL	1.18
Specific Surface Area	m²/g	600
Pore Volume	mL/g	1.0
Pore Radius	Å	110
Recommended Operating Condition	IS	
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		
Orga	inic solvents	for hydrophobic compounds
		Bases for acidic compounds
		Acids for basic compounds
Bu	ffer solution	for pH sensitive compounds
		Water for an ionic solution
	Hot s	team for volatile compounds





Product Data Sheet SEPABEADS[™]

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Pore size distribution



Fig. 1 Pore size distribution of SP207

Swelling Ratio In Various Solvents

0	
Methanol	1.10
Ethanol	1.11
2-Propanol	1.12
Acetone	1.13
Toluene	1.13
Acetonitrile	1.12
Water	1.00

Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of SEPABEADSTM SP207 resin in normal down flow operation is shown in the graphs below.







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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 chamicals

Storage condition

Synthetic adsorbents are at high risk of mold growth. Accordingly, syntheric 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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