

Product Data Sheet

SEPABEADS™ SP825L

SEPABEADS™ SP825L is highly porous styrenic adsorbents. It has much larger surface area and a narrower pore size distribution than DIAION™ HP20. It offers higher capacity for small molecules. This grade is recommended for adsorption, desalting and decolorization.

SEPABEADS™ SP825L is characterized by:

- >> Unique pore size distribution
- >> Excellent batch-to-batch reproducibly
- >> Wide application
- >> High chemical and physical stability
- >> Excellent pressure/flow characteristics

Physical and chemical properties

Grade Name	SEPABEADS™ SP825L	
Bead form	Spherical, porous	
Matrix	Polystyrene/divinylbenzene	
Chemical Structure	$\begin{array}{c} \text{---CH}_2\text{---CH---CH}_2\text{---CH---} \\ \qquad \qquad \\ \text{C}_6\text{H}_5 \qquad \text{C}_6\text{H}_5 \\ \qquad \qquad \\ \text{---CH---CH}_2\text{---} \end{array}$	
Whole beads count	-	95 min.
Shipping Density*	g/L	690
Water content	%	52 - 62
Particle Size Distribution thr. 250 μm	%	5 max.
Effective size	mm	0.25 min.
Uniformity Coefficient	-	1.6 max.
Particle Density*	g/mL	1.01
Specific Surface Area*	m ² /g	930
Pore Volume*	mL/g	1.4
Pore Radius*	Å	70

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

Swelling ratio in various solvents

Methanol	1.15
Ethanol	1.16
2-Propanol	1.15
Acetone	1.16
Toluene	1.12
Acetonitrile	1.16
Water	1.00



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Pore size distribution

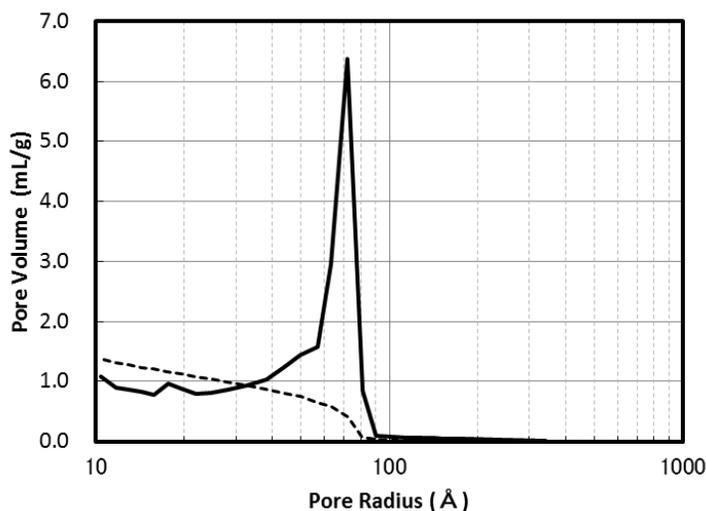


Fig. 1 Pore size distribution of SP825L

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	



Hydraulic Characteristics

The approximate pressure drop at various temperatures and flow rates for each meter of bed depth of SEPABEADS™ SP825L resin in normal down flow operation is shown in the graph below.

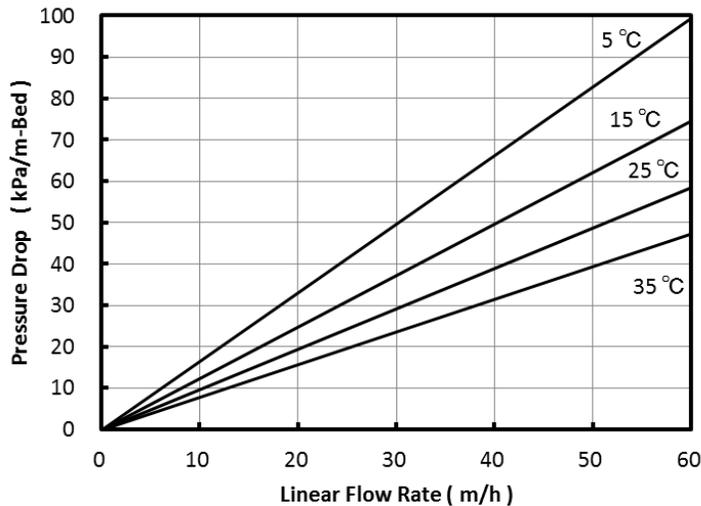


Fig. 2 Pressure Drop of SP825L

Applications

- Purification of Cephalosporin C
- 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

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