

1. Description

Seplife® RP LX-24SS-3 is a polydivinylbenzene/butyl acrylate macroporous adsorbent resin characterized by low polarity, medium pressure stability and high capacity. The functional groups on the surface of the resin are butyl groups that provide a special hydrophobic microenvironment for the biomolecule adsorption.

It is particularly suitable for reversed-phase chromatography (RPC) and adsorption. The controlled pore structure provides excellent kinetics and capacity for small biomolecules at both preparative and process scale.

ADVANTAGES

Medium polarity

Medium pressure stability

High chemical stability

Easy column packing

Efficient regeneration

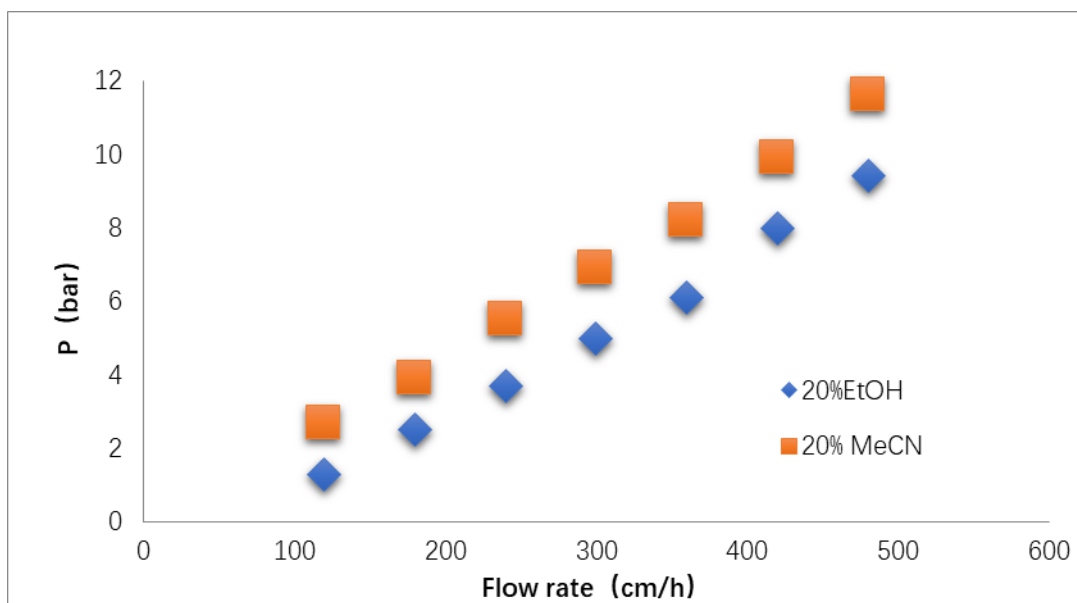
2. Properties

Grade Names	LX-24SS-3 (S)	LX-24SS-3 (M)	LX-24SS-3 (L)
Polymer matrix	Polydivinylbenzene/butyl acrylate		
Appearance	White Spherical Beads		
Functional Group	None		
Particle Size (um)	30-50	50-100	100-300
Uniformity Coefficient	≤1.3		
Bulk Density (g/mL)	0.83-0.93	0.76-0.87	0.70-0.80
Max pressure resistance (bar)	20	15	10
pH Limits, Stability	1-14		
Pore Volume (mL/g)	1.30±0.10		
Specific Surface Area (m²/g)	350±50		
Pore Radius (Å)	300±50		
Swelling coefficient (From wet in water)	≤7% (100%MeOH)	≤7% (100%MeOH)	≤9% (100%MeOH)
	≤9% (100% MeCN)	≤10% (100% MeCN)	≤10% (100% MeCN)
Operating Temperature (°C)	10-40		
Dynamic binding capacity (mg/ml)	30 (Vitamin B12)		
	35 (Insulin)		
Shipped as	Shipped in 20% ethanol slurry for the S and M, shipped in wet form for the L grade.		
Expiry date	5 years		

Production date: See label

3. Hydraulic Characteristics

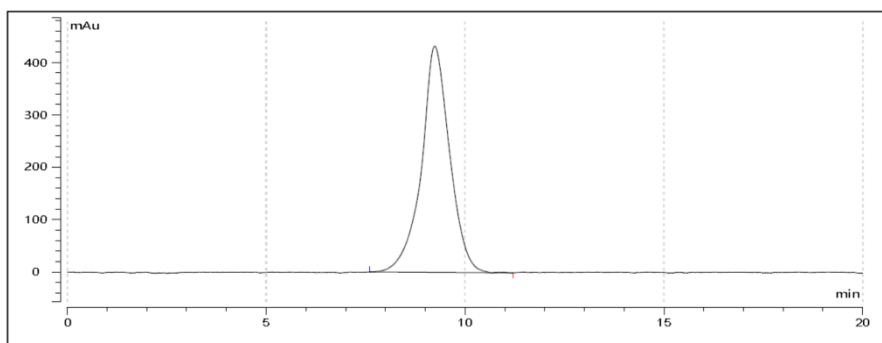
The approximate pressure drop at various solutions and flow rates for Seplife® RP LX-24SS(M)-3 in normal down flow operation is shown in the graph below.



10*600mm column Packing pressure : 5 bar

Fig 1. Pressure Drop of Seplife® RP LX-24SS-3(M)

The elution profile of Seplife® RP LX-24SS-3(M) is shown in the graph below



10*600mm column

20% EtOH 4-6CV, 6cm/min

Inject 1ml (0.1ml Actone + 0.9 ml 20% EtOH)

UV: 280nm

20% EtOH, 2CV, 6cm/min

Fig 2. Elution curve for column efficiency testing of Seplife® RP LX-24SS-3(M)

4. Indicative Applications

Adsorption of small peptides, especially fermentation products as peptides;

Decolorization and purification of various fermented chemicals

5. Shipping

Shipped in 20% ethanol slurry for the S and M grades, shipped in wet form for the L grade.

6. Transportation

Avoid sunlight, rain, and heavy pressure during transportation. Do not transport in combination with toxic and hazardous materials.

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