

TRILITE[®] MC-08LS

Uniform Particle Size Strong Acid Cation Exchange Resin

Rev.3 Feb 2023

TRILITE[®] MC-08LS is a UPS SAC gel-type exchange resin specialized for starch sugar refining. TRILITE[®] MC-08LS is a standard cross-linked product with outstanding physical and chemical strength, resulting in a low resin attrition rate over long-term use. It is supplied Na⁺ form.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	2.00 ↑
Shipping Density(g/ℓ)	845	Moisture Retention(%)	43~49
Particle Density	1.28	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	600±50	Swelling Rate(Na ⁺ →H ⁺ , %)	9
Whole Beads(%)	95 ↑		

Recommended Operating Conditions

Operating Temp(°C)	120 ↓	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60

Regeneration

Regenerant	NaCl	Concentration(%)	NaCl (8~12)
Level(g/ℓ)	50~200	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE[®] MC-08LS is a UPS resin developed specifically for lysine separation/purification, exhibiting excellent performance in amino acid adsorption and refinement.

Hydraulic Characteristics

Figure 1 and 2 show the backwash expansion of TRILITE® MC-08LS as a function of flow rate and temperature.

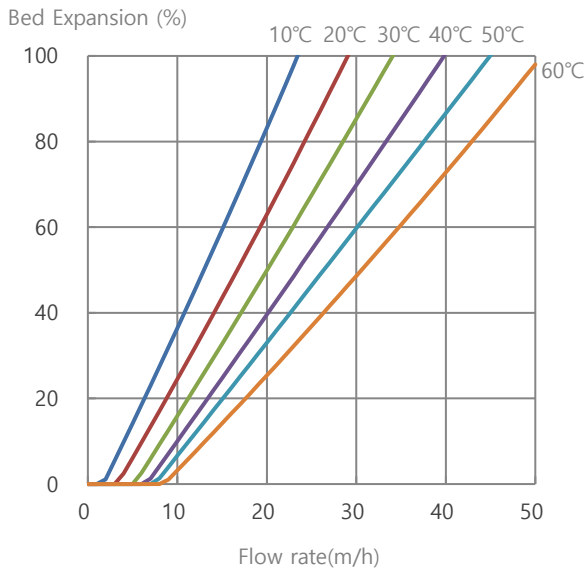


Figure 1. TRILITE® MC-08LS Na⁺ Type

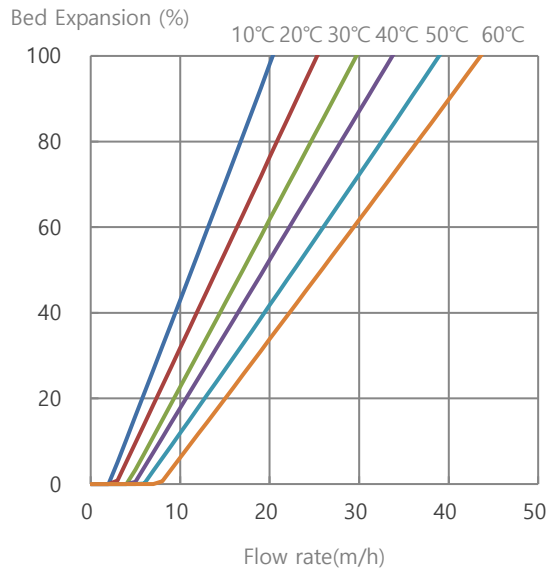


Figure 2. TRILITE® MC-08LS H⁺ Type

TRILITE® MC-08LS의 유속 및 물의 온도변화에 따른 압손실은 다음과 같다.

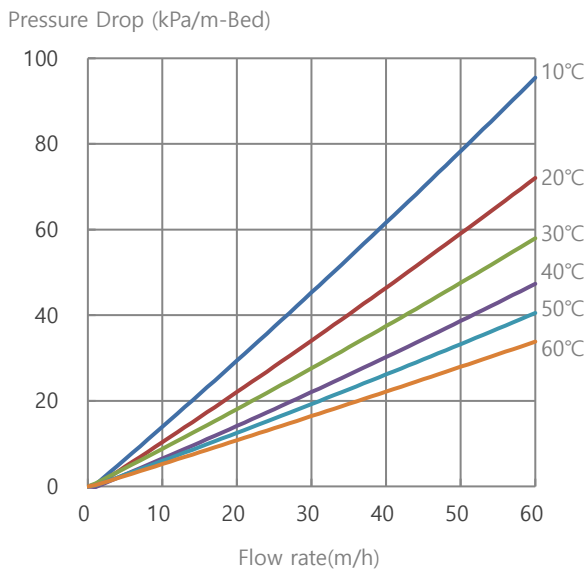


Figure 3. TRILITE® MC-08LS Na⁺ Type

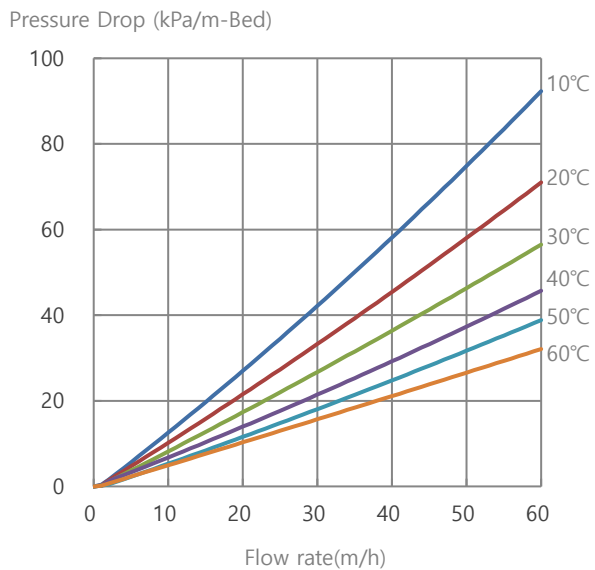


Figure 4. TRILITE® MC-08LS H⁺ Type

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Samyang's TRILITE Ion exchange resins are produced based on the ISO 9001, ISO 14001 certification.
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