Product Data Sheet

TRILITE® MC-08LS

Uniform Particle Size Strong Acid Cation Exchange Resin

Rev.2 Nov 2018

TRILITE® MC-08LS Strong Acid Cation Exchange Resin is a Gel Type Uniform Particle Size resin. Because of its excellent ion removal capacity, high purity water can be produced economically. TRILITE® MC-08LS is a standard cross-linkage product and it has outstanding mechanical and chemical stability, leading to low crush rate even after long-term use. TRILITE® MC-08LS can be supplied by Na^+ form but H^+ form can be available depending on application and user's request.

Physical and Chemical Properties

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

Recommended Operating Conditions

Operating Temp(℃)	120	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	5~60
Regeneration			
Regenerant	HCl, H_2SO_4	Concentration(%)	HCl(1~8), H_2SO_4 (1~4)
Level(g/ℓ)	30~150	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~6		

Applications

TRILITE® MC-08LS is specially developed for lysine, sugar and catalyst reaction.

Hydraulic Characteristics

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

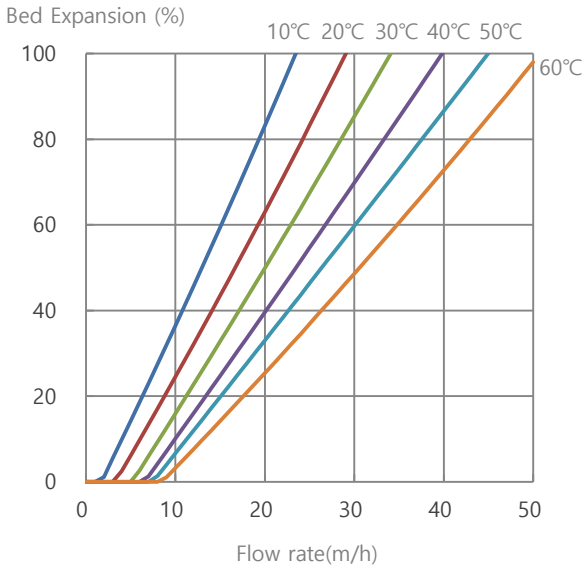

Figure 1. TRILITE® MC-08LS Na^+ Type

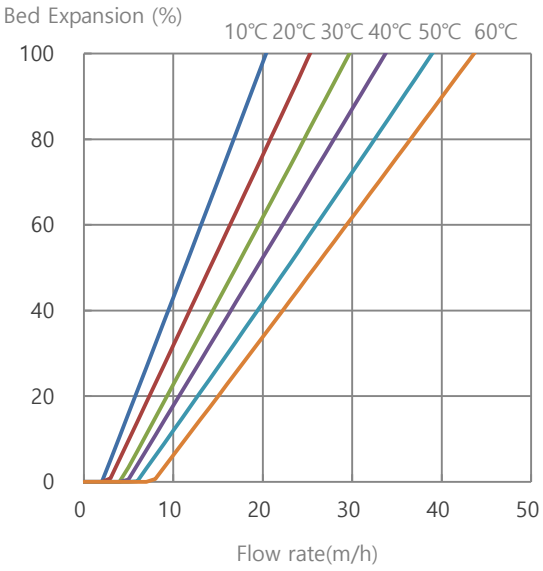

Figure 2. TRILITE® MC-08LS H^+ Type

Figure 3 and 4 show the pressure drop of TRILITE® MC-08LS as a function of flow rate and water temperature.

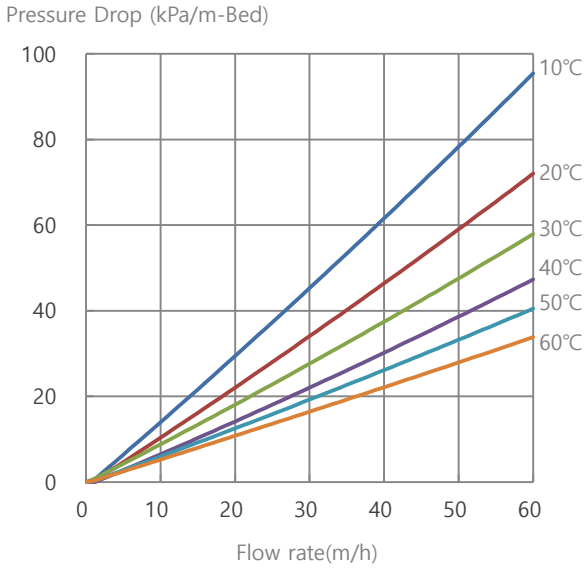

Figure 3. TRILITE® MC-08LS Na^+ Type

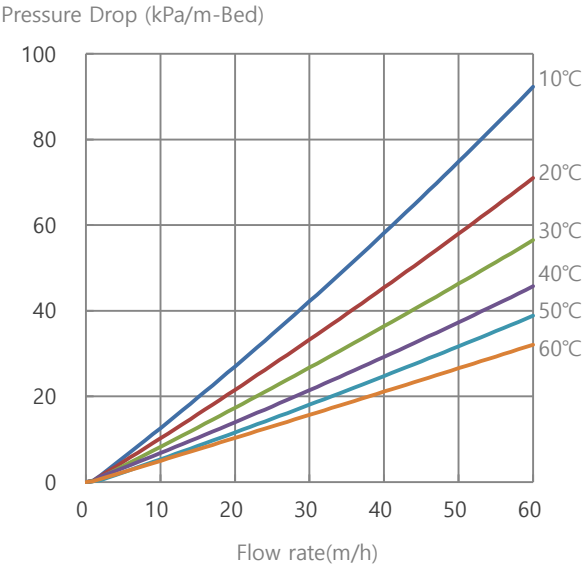

Figure 4. TRILITE® MC-08LS H^+ Type

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

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Ion Exchange Resin

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