

TRILITE® MC-04H

Uniform Particle Size Strong Acid Cation Exchange Resin

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TRILITE® MC-04H Strong Acid Cation Exchange Resin is a Gel Type Uniform Particle Size resin. TRILITE® MC-04H is a low cross-linkage product and specifically treated and improved for catalytic applications. It has outstanding mechanical and chemical stability. TRILITE® MC-04H is supplied by H⁺ form.

Physical and Chemical Properties

Physical Form	Khaki translucent spherical beads	Matrix	Styrene-DVB, Gel
Functional Group	Sulfonic acid	Ionic Form	H ⁺
Total Capacity(eq/ℓ)	1.20 ↑	Moisture Retention(%)	65~70
Shipping Density(g/ℓ)	750	Particle Density	1.13
Uniformity Coefficient	1.1 ↓	Particle Size(μm)	500±30
Whole Beads(%)	95 ↑	Swelling(Na ⁺ →H ⁺ , %)	9

Recommended Operating Conditions

Operating Temp(°C)	120	pH Range	0~14
Bed Depth(mm)	800	Service Flow Rate(m/h)	10~40
Regeneration			
Regenerant	HCl, H ₂ SO ₄	Concentration(%)	HCl(4~10), H ₂ SO ₄ (1~4)
Level(g/ℓ)	30~150	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~10		

Applications

TRILITE® MC-04H is widely used to various chemical reactions such as catalytic application (Bisphenol-A, etc), separation and refining of nucleic acid and amino acids, etc.

Hydraulic Characteristics

Figure 1 shows the backwash expansion of TRILITE® MC-04H as a function of flow rate and temperature.

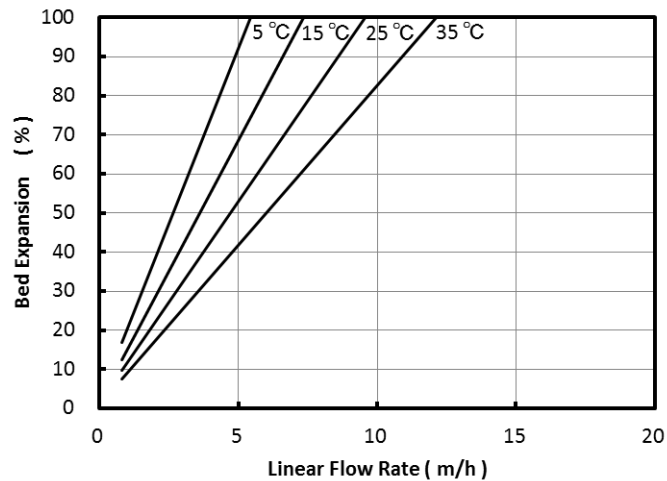


Figure 1. TRILITE® MC-04 H⁺ Type

Figure 2 shows the pressure drop of TRILITE® MC-04NH as a function of flow rate and water temperature.

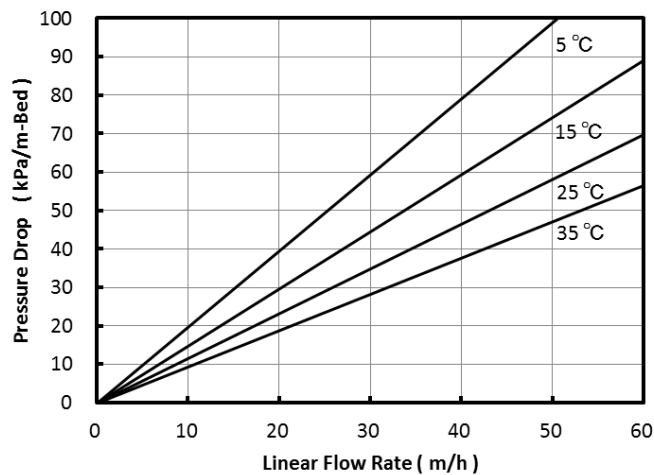


Figure 2. TRILITE® MC-04 H⁺ Type

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

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