

TRILITE[®] MC-04

Uniform Particle Size Acid Cation Exchange Resin

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TRILITE[®] MC-04 is a UPS, SAC gel-type resin. TRILITE[®] MC-04 is a low cross-linkage product and specifically treated and improved for catalytic applications. It has outstanding mechanical and chemical stability. TRILITE[®] MC-04 is supplied by Na⁺ form but H⁺ form can be available depending on application and user's request.

Physical and Chemical Properties

Matrix	Polystyrene+DVB, Gel	Functional Group	Sulfonic acid
Ionic Form	Na ⁺	Total Capacity(eq/ℓ)	1.30 ↑
Shipping Density(g/ℓ)	790	Moisture Retention(%)	57~67
Particle Density	1.16	Uniformity Coefficient	1.1 ↓
Particle Size(μm)	500±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)	10~40

Regeneration

Regenerant	HCl / H ₂ SO ₄	Concentration(%)	HCl (4~10)/H ₂ SO ₄ (1~4)
Level(g/ℓ)	50~200	Flow Rate(m/h)	2~10
Rinse Requirement(BV)	2~10		

Applications

TRILITE[®] MC-04 is widely used as a catalyst in various chemical reactions (such as Bisphenol-A) and for the separation and refining of nucleic and amino acids as it exhibits a fast ion exchange rate.

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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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