

Sodium carboxymethyl cellulose (Viscosity:800-1200 mPa.s)

Cat. No.:	HY-Y0703			
CAS No.:	9004-32-4			
Target:	Others			
Pathway:	Others			Sodium carboxymethyl cellulose
Storage:	Powder	-20°C	3 years	
		4°C	2 years	

BIOLOGICAL ACTIVITY

Description	Sodium carboxymethyl cellulose (Viscosity:800-1200 mPa.s) is the sodium salt of cellulose arboxymethyl and frequently used as viscous agent, paste and barrier agent.
In Vivo	<p>Protocol for preparing 0.5% CMC-Na Solution Measure 0.5g of dry CMC-Na and dissolved in 100 ml ddH2O/0.9% Saline (0.9 g NaCl in 100 ml ddH2O) to make a clear solution. Under the condition of stirring and heating (50-65°C), adding CMC-Na slowly to ddH2O/0.9% Saline helps to accelerate dissolution.</p> <p>Note</p> <ol style="list-style-type: none"> You must ensure that your CMC-Na solution does not exist solid-liquid separation phenomenon. The solution is in a uniform and transparent state has no particles in it. Completely dissolution of CMC-Na may requires 4 hours or more longer. <p>In a pharmacological test, CMC-Na (oral;5% in water; 1 year) is well tolerated in rats^[2]. In an acute oral toxicity study in female mice, LD₅₀ of CMC-Na for female mice is 14 g/kg body weight of mice, equivalent to 9.8 g/kg body weight of rat, categorized as practically non-toxic according to Loomis criteria (LD₅₀ 5-15g/kg body weight of rat)^[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

CUSTOMER VALIDATION

- Drug Des Dev Ther. 2021 Apr 21;15:1641-1652.

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REFERENCES

- [1]. Du XH, et al. Dexamethasone and sodium carboxymethyl cellulose prevent postoperative intraperitoneal adhesions in rats. Braz J Med Biol Res. 2015 Apr;48(4):344-8.

[2]. Common Vehicles for Nonclinical Evaluation of Therapeutic Agents.

[3]. Ida Musfiroh, et al. Toxicity Evaluation of Na-CMC synthesized from Cellulose of Water Hyacinth (*Eichhornia crassipes* (Mart.) Solms). ISSN: 0975-8585

Caution: Product has not been fully validated for medical applications. For research use only.

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