

## Sodium carboxymethyl cellulose (Viscosity:1200-1400 mPa.s)

Cat. No.:	HY-Y0703A	
CAS No.:	9004-32-4	
Target:	Biochemical Assay Reagents	
Pathway:	Others	Sodium carboxymethyl cellulose
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

### SOLVENT & SOLUBILITY

In Vitro	DMSO : 12.5 mg/mL (ultrasonic and warming and heat to 60°C) H <sub>2</sub> O : 8.33 mg/mL (Need ultrasonic)
In Vivo	<ol style="list-style-type: none"> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 40% PEG300 &gt;&gt; 5% Tween-80 &gt;&gt; 45% saline Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution</li> <li>Add each solvent one by one: 10% DMSO &gt;&gt; 90% corn oil Solubility: ≥ 1.25 mg/mL (Infinity mM); Clear solution</li> </ol>

### BIOLOGICAL ACTIVITY

Description	Sodium carboxymethyl cellulose (Viscosity:1200-1400 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</p> <p>Measure 0.5g of dry CMC-Na and dissolved in 100 ml ddH<sub>2</sub>O/0.9% Saline (0.9 g NaCl in 100 ml ddH<sub>2</sub>O) to make a clear solution.</p> <p>Under the condition of stirring and heating (50-65°C), adding CMC-Na slowly to ddH<sub>2</sub>O/0.9% Saline helps to accelerate dissolution.</p> <p>Note</p> <ol style="list-style-type: none"> <li>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.</li> <li>Completely dissolution of CMC-Na may requires 4 hours or more longer.</li> </ol> <p>In a pharmacological test, CMC-Na (oral;5% in water; 1 year) is well tolerated in rats<sup>[2]</sup>.</p> <p>In an acute oral toxicity study in female mice, LD<sub>50</sub> 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 (LD<sub>50</sub> 5-15g/kg body weight of rat)<sup>[3]</sup>.</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

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

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