

Sodium carboxymethyl cellulose (Viscosity:5000-15000 mPa.s)

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| Cat. No.: | HY-Y1889 | | |
| CAS No.: | 9004-32-4 | | |
| Target: | Biochemical Assay Reagents | | |
| Pathway: | Others | | Sodium carboxymethyl cellulose |
| Storage: | Powder | -20°C 3 years 4°C 2 years | |

SOLVENT & SOLUBILITY

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| In Vitro | H ₂ O : 16.67 mg/mL (Need ultrasonic) |
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BIOLOGICAL ACTIVITY

Description Sodium carboxymethyl cellulose (Viscosity:5000-15000 mPa.s) is the sodium salt of cellulose arboxymethyl and frequently used as viscous agent, paste and barrier agent.

In Vivo

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.

Note

- 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.

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.

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.

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

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