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

Cat. No.: HY-Y0703

CAS No.: 9004-32-4

Target: Biochemical Assay Reagents

Pathway: Others

Storage: 4°C, sealed storage, away from moisture

Sodium carboxymethyl cellulose

SOLVENT & SOLUBILITY

In Vitro	H_2O : 10 mg/mL (Need ultrasonic)

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	Protocal 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 1.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. 2.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, LD_{50} 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_{50} 5-15g/kg body weight of rat)[3]. MCE has not independently confirmed the accuracy of these methods. They are for reference only.

CUSTOMER VALIDATION

- Antioxidants (Basel). 2022, 11(11), 2093.
- Transplantation. 2022 Jun 16.

- Int Immunopharmacol. 2022 Apr 30;109:108805.
- Int Immunopharmacol. 2022 Mar 9;107:108681.
- J Integr Med. 2024 Jan 24.

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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

Tel: 609-228-6898 Fax: 609-228-5909 E-mail: tech@MedChemExpress.com

Address: 1 Deer Park Dr, Suite Q, Monmouth Junction, NJ 08852, USA