

Sodium alginate

Cat. No.:	HY-Y1310
CAS No.:	9005-38-3
Target:	Biochemical Assay Reagents
Pathway:	Others
Storage:	4°C, sealed storage, away from moisture * In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)

Sodium alginate

SOLVENT & SOLUBILITY

In Vitro	H ₂ O : 6.67 mg/mL (Need ultrasonic)
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BIOLOGICAL ACTIVITY

Description	Sodium alginate is the sodium salt of alginic acid. Sodium alginate can be extracted and purified from brown seaweed <i>Laminaria japonica</i> . Sodium alginate can be used in food additives and pharmaceuticals, adsorb heavy metal ions, and has mucosal-protective and hemostatic effects ^{[1][2]} .
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In Vivo	Sodium alginate (0.1-0.5 mL; parietal periosteum, intradermal and subcutaneous injection once) induces granulomatous reactions in rats ^[1] .
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MCE has not independently confirmed the accuracy of these methods. They are for reference only.

Animal Model:	8-week-old male Wistar rats ^[1]
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Dosage:	0.1-0.5 mL
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Administration:	Parietal periosteum, intradermal and subcutaneous injection; 0.2, 0.1 and 0.5 mL respectively, once
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Result:	Induced macrophages recruitment and generated skin uplift.
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REFERENCES

[1]. Mori M, et al. Sodium Alginate as a Potential Therapeutic Filler: An In Vivo Study in Rats. *Mar Drugs*. 2020 Oct 19;18(10):520.

[2]. Gao X, et al. Adsorption of heavy metal ions by sodium alginate based adsorbent-a review and new perspectives. *Int J Biol Macromol*. 2020 Dec 1;164:4423-4434.

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

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