

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 Laminaria japonica. Sodium alginate can be used in food additives and pharmaceuticals, adsorb heavy metal ions, and has mucosal-protective and hemostatic effects ^{[1][2]} .	
In Vivo	Sodium alginate (0.1-0.5 mL; parietal periosteum, intradermal and subcutaneous injection once) induces granulomatous reactions in rats ^[1] .	
	MCE has not independently confirmed the accuracy of these methods. They are for reference only.	
	Animal Model:	8-week-old male Wistar rats ^[1]
	Dosage:	0.1-0.5 mL
	Administration:	Parietal periosteum, intradermal and subcutaneous injection; 0.2, 0.1 and 0.5 mL respectively, once
	Result:	Induced macrophages recruitment and generated skin uplift.

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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