

Calcium alginate

Cat. No.:	HY-W133967	
CAS No.:	9005-35-0	
Target:	Biochemical Assay Reagents	
Pathway:	Others	Alginate acid, calcium salt
Storage:	4°C, sealed storage, away from moisture	
	* In solvent : -80°C, 6 months; -20°C, 1 month (sealed storage, away from moisture)	

BIOLOGICAL ACTIVITY

Description	Calcium alginate is a biopolymer that can be used for developing oral agent-delivery systems ^[1] . Calcium alginate is a pH sensitive hydrogel stable in acidic media and soluble in basic media ^[2] .
In Vitro	<p>Calcium alginate is a pH sensitive hydrogel stable in acidic media and soluble in basic media. This enables the hydrogel to absorb and release aqueous solutions at certain ranges of pH values. By absorbing an aqueous solution containing a drug, an active drug release can be triggered at a specified range of pH value^[2].</p> <p>Calcium alginate is a biodegradable gel-transforming agent widely used for nasal packing. It can reduce pain and improve comfort^[3].</p> <p>MCE has not independently confirmed the accuracy of these methods. They are for reference only.</p>

REFERENCES

- [1]. Demitri C, et al. Encapsulation of Lactobacillus kefir in alginate microbeads using a double novel aerosol technique. Mater Sci Eng C Mater Biol Appl. 2017;77:548-555.
- [2]. Chengzhi Hu, et al. Electrosynthesis of magnetoresponsive microrobot for targeted drug delivery using calcium alginate. Annu Int Conf IEEE Eng Med Biol Soc. 2016;2016:2111-2114.
- [3]. Park DY, et al. Comparison of calcium alginate and carboxymethyl cellulose for nasal packing after endoscopic sinus surgery: a prospective, randomised, controlled single-blinded trial. Clin Otolaryngol. 2016;41(3):234-240.

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

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