

Product Information

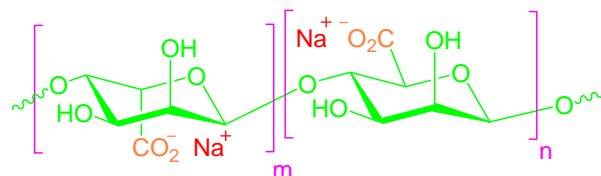
Sodium Alginate

Product Number: 101391

Synonyms

Alginic Acid, Sodium Salt

Sodium Salt of Alginate



Specifications

CAS Number: 9005-38-3

M.F. (Repeat Unit): C₆O₆H₇Na

M.W. (Repeat Unit): 198.11 g.mol⁻¹

Appearance (Form): Powder

Appearance (Color): White to Light Yellow

FTIR Spectrum: Conforms to Structure

Store: 2 – 8 °C

Purity: ≥ 98%

Viscosity: 10 cps (c = 25 mg.mL⁻¹; Water)

pH: 6 – 7 (c = 10 mg.mL⁻¹; Water)

Solubility (Water): up to c = 30 mg.mL⁻¹

Solubility (Turbidity): Clear to Light Yellow

Description

Sodium alginate (Na-Alg) is a linear, anionic polysaccharide, extracted mainly from brown algae. This natural biopolymer is composed of guluronic acid and mannuronic acid units, and considered in medical engineering due to its abundance, and suitable biological properties such as biocompatibility, non-toxicity and easy gelation. It is an important component produced by the bacterium *P. aeruginosa*, a major pathogen found in the lungs of some people who have cystic fibrosis. During recent years, alginate has been focused due to its unique properties as a biomaterial for micro-encapsulation.

Applications

It is widely used in tissue engineering of cardiovascular, cartilage and skin tissues,

Precautions

For laboratory and research use. Not for drug, household or other uses.

Stability

The sodium alginate powder is stable for at least 12 months 2 – 8 °C. Storage of the stock Na-Alg powder at room temperature for more than 3 months may cause partial decomposition and yield incorrect results.

Packaging

1 and 5 g in plastic bottle

Product Information

zfc0.com

wound dressings, drug delivery systems, and as an additive in dehydrated products.