

# Product Information

## Triethylammonium Alginate

**Product Number: 101394**

### Synonyms

Alginic Acid, Triethylammonium Salt

Triethylammonium Salt of Alginate

### Specifications

CAS Number: -

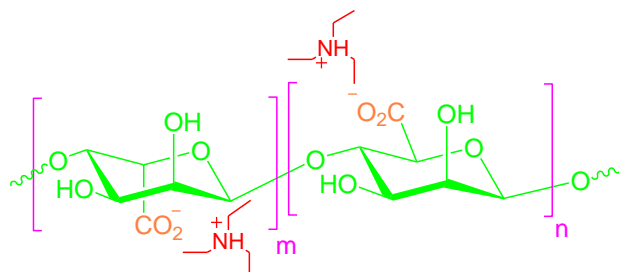
M.F. (Repeat Unit):  $C_{12}NO_6H_{23}$

M.W. (Repeat Unit): 277.31 g.mol<sup>-1</sup>

Appearance (Form): Powder

Appearance (Color): White to Light Yellow

Store: 2 – 8 °C



FTIR Spectrum: Conforms to Structure

Purity: ≥ 98%

pH: 6 – 7 (c = 10 mg.mL<sup>-1</sup>; Water)

Solubility (Water): up to c = 30 mg.mL<sup>-1</sup>

Solubility (Turbidity): Clear to Light Yellow

### Description

Alginate is a linear, anionic polysaccharide, extracted mainly from brown algae. Triethylammonium alginate (TEA-Alg) is a derivative of alginate with counter-cation of triethylammonium moiety. This semi-synthetic polysaccharide shows antibacterial properties due to the presence of triethylammonium cations. It can be used as coating or fiber for biomedical engineering.

### Applications

It can be used in tissue engineering of skin tissue, antibacterial wound dressing as a moisture absorbent, and microsphere and nanoparticles for drug delivery systems.

### Precautions

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

### Stability

Triethylammonium alginate powder is stable for at least 12 months at 2 – 8 °C. Storage of the stock TEA-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