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Seaweed

Seaweed is an aquatic plant with many applications in food, fertilizer, and raw materials (such as agar/agarose and iodine). Seaweed cultivation is low tech and labor intensive, and supply is susceptible to natural disasters.

Primarily, we use raw materials derived from red seaweed (carrageenan) and brown seaweed (Algin/Alginates).

Downstream materials from Seaweed include:

Carrageenan (Sulphated polysaccharide extracted from red seaweed)

- [Kappa-Carrageenan \(one sulphated group per disaccharide\)](#)
 - [Rigid gels with potassium ions](#)
- [Iota-Carrageenan \(two sulphated groups per disaccharide\)](#)
 - [Soft gels with calcium ions](#)
- [Lambda-Carrageenan \(three sulphated groups per disaccharide\)](#)
 - [Thickener](#)
- BioPharma
 - Agar/Agarose (Bacteriological, Media Components)
 - Culture Media
 - Excipient
- Personal care
 - Toothpastes
 - Shampoos
 - Shaving cream
- Applications:
 - Gels/Stabilizers
 - Binders
 - Emulsifiers
 - Molding Preparations (dental)

Algin/Alginates

- Iodine
- BioPharma

- Controlled Release Agent (medications)
 - Thickeners/Stabilizers For Liquids (cough syrups)
- Packaging (paper/ cardboard/filters)
- Other: Finishes (paints/dyes/pigments); explosives; pesticides; fire retardants/extinguishers