

A pure, neutral gelling polymer from the sea

Key product attributes

- Compatible with highly anionic, cationic materials and acids
- Natural, colorless and odorless
- Can be used in high and low pH applications
- Provides cool, clean skin feel
- Unique, highly purified, neutral gelling polymer derived from red seaweed (Rhodophyta)

Use level

1-5%

Chemical structure of Agarose

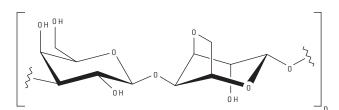


Figure 1: Agarobiose — basic repeating unit of agarose.

Product information

Neutral and compatible

- Neutral polysaccharide with a low percentage of residual charged groups (sulfates, pyruvates, methoxyls)*
- Compatible with nearly any ingredient, particularly highly anionic or cationic materials, even at high concentration
- No salts, counterions, pH changes, other polymers or initiators required for gelation. Functions in low pH applications
- Easy incorporation and release of sensitive materials

Strong, versatile gelling properties

- − Provides strong gelling characteristics at very low concentrations: gel strength \geq 1,200 g/cm² at 1%
- Broad viscosity profile at low use level
- Forms thermoreversible gels: gelation at 34°C to 37°C, and remelts at >90°C
- Reduces the need for additional ingredients to achieve desired rheology and skin feel

 $[\]hbox{* SeaPure$^{\tiny @}$ Agarose may be derivatized to enhance various properties for specific uses.} \\$

SeaPure® Agarose

Features and benefits

Clear and odorless

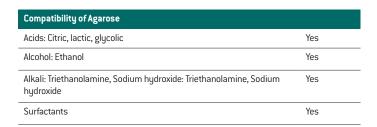
Naturally clear and odorless material provides a clean, clear stabilizer, and is well suited to color or scent additives

Excellent tactile characteristics

- Non-greasy thickener, with good rub-out and minimal residue
- Smooth, clean skin feel
- Soft, elastic gels
- Versatile texturizing properties

Preparation

- 1. Disperse agarose in room temperature water using constant
- 2. Heat to 85°C with agitation and hold until all particles are dissolved; about 15 minutes.
- 3. Cool to 55°C and replace any water loss using agitation.
- 4. Incorporate other ingredients using agitation above 40°C.
- 5. If preparing formed gels, pour in to molds (hot) at desired thickness and allow to gel at room temperature.
- 6. If using agarose to thicken, continue agitation as solution cools to prevent gel formation during the cooling phase.
- 7. Adjust mixing shear to achieve desired texture in the finished solution. Gelation is complete when temperature reaches 20°C to 25°C.
- 8. Pour thickened liquid in to desired containers.





Ordering information INCI Name: Agarose

Cat. no.	Product description
232782	SeaPure® Agarose 1kg bottle
50266	SeaPure® Agarose 2+kg drums

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