

## Galactoarabinan

### Specification Sheet

**Description:** Natural, multifunctional polysaccharide (polymeric sugar called Arabinogalactan) obtained from the Eastern Larch Tree (larch larcinia) heartwood from trees which are grown in the United States. Offers multiple functional benefits for skin care and sun care products. Composed of 90-100% Galactoarabinan and 5-10% of water. Molecular weight 20,000 Daltons. Viscosity in 5% water: 5.0 CPS.

**CAS:** 9036-66-2, 7732-18-5

**INCI Name:** Galactoarabinan, Water

**Composition:** Galactoarabinan, Water

**Appearance:** Off-white to tan powder, slightly aromatic.

**Benefits:**

- Reduces transepidermal water loss (TEWL) & provides long lasting moisturization.
- Improves skin appearance & decreases appearance of superficial fine lines.
- Reduces emulsion particle size to enhance emulsion uniformity and promote stability.
- Facilitates uniform aqueous dispersion of pigments and particulate materials.
- Demonstrates SPF enhancement of sunscreens by smaller droplet size of emulsion & improved pigment dispersion (depending on the type and concentration of sunscreens used in a formula, the SPF can be increased by 25-55% by adding 5% of galactoarabinan)

**Use:** Add to the water phase of formulas and mix well. Typical use level 0.5-2%. For SPF enhancement & skin-tightening 5%. For external use only.

**Applications:** Anti-wrinkle & anti-aging moisturizing lotions, creams, & serums. Sun care products, makeup products & other color cosmetics.

**Solubility:** Water-soluble

**Preservation:** Preservative-free

**Storage:** Store in a closed container at a dry place at room temperature.

**Country of Origin:** USA

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**Raw material source:** Extracted from the Eastern Larch Tree (larch laricina) heartwood from trees which are grown in the United States

**Manufacture:** Galactoarabinan is produced from extract derived from the heartwood of the Eastern Larch Tree (larch laricina). The pressate extract is purified, concentrated, decolorized, treated by water (ion exchange) and then spray dried.

**Animal Testing:** Not animal tested.

**GMO:** GMO-free

**Vegan:** Does not contain animal-derived components.

**HS Code:** 3304995000