

Galactoarabinan

Specification Sheet

Description: Natural, multifunctional polysaccharide (polymeric sugar called Arabinogalactan) obtained from the Eastern Larch Tree (*Larix laricina*) 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. Off-white to tan powder, slightly aromatic. Soluble in water.

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

INCI Name: Galactoarabinan

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.

Country of Origin: USA

Raw material source: Extracted from the Eastern Larch Tree (*Larix 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 (*Larix 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: Yes