



# Fructo-oligosaccharides

INCI Fructooligosaccharides  
CAS 308066-66-2

## SPECIFICATIONS

Appearance off-white light-yellow powder  
Odor slightly sweet  
T FOS (%) min. 95.0  
Sucrose & Monosaccharides (%) max. 5.0

## GENERAL INFORMATION

Fructo-oligosaccharides (also called FOS) are fibers obtained from various fruit and vegetable plants.

Fructo-oligosaccharides are natural carbohydrates composed of short chains of fructose.

Fructo-oligosaccharides can selectively stimulate the growth and metabolism of the bacterial flora, promoting its rebalancing; thus, they have a prebiotic action.

## FORMULATION

Fructo-oligosaccharides are widely used in cosmetics due to their numerous benefits:

### Skin care

- Hydration: FOS have the ability to retain water, which helps natural hydration of dry skin. At the same time FOS will assure good protection against environmental aggressors such as cold weather, wind, and pollution.
- Soothing effect: FOS also have soothing properties that can help relieve chapped or irritated skin or lips. They can help calm inflammation and reduce redness, providing relief and a sensation of comfort.
- Prebiotic effect: FOS can act as prebiotics, meaning they provide beneficial nourishment for the naturally occurring microorganisms on the lip skin.

### Hair care

- Hydration and conditioning: FOS have the ability to retain moisture, which can help hydrate dry hair and maintain its moisture balance. They act as conditioning agents, making the hair softer, more supple, and easier to style.

- Protection against damage: FOS can form a protective layer around the hair, acting as a shield against external aggressors such as heat from styling tools, UV rays, and pollution.
- Soothing effect on the scalp: can help calm scalp irritations and reduce itching in case of sensibilization.
- Hair strengthening: FOS can help strengthen the hair by improving its structure and elasticity.
- Enhancement of shine: FOS can give hair a shinier and more vibrant appearance by smoothing the hair cuticle and reflecting light better.

## BENEFITS

- Humectant for skin and hair
- Soothing effect, calming irritation
- Prebiotic action, rebalancing flora
- Enhances hair shine and strength

## APPLICATIONS

- Shampoo
- Micellar water
- Hair care creams & conditioner
- Lip balm
- Purifying exfoliant

## SHELF LIFE

24 months under proper storage conditions

## REGULATORY

ECOCERT/COSMOS Conform