



# Oligosaccharide that holds nature as it is

## Organic Fructooligosaccharide

### Fructooligosaccharide (FOS)

Fructooligosaccharide is  $\beta$ -1, 2-combined oligosaccharide with 1~3 fructose molecules in sugar molecule, Fructooligosaccharide is a functional food material produced by using transferase or microorganism with transferase based on sugar or inulin as raw materials. In the country, it can be available both as a sweetener for general food or as a functional raw material for health functional food (it helps multiplying beneficial bacteria, inhibit harmful bacteria, ingest calcium and make bowel movements smooth by taking it in for 3~8g a day.)

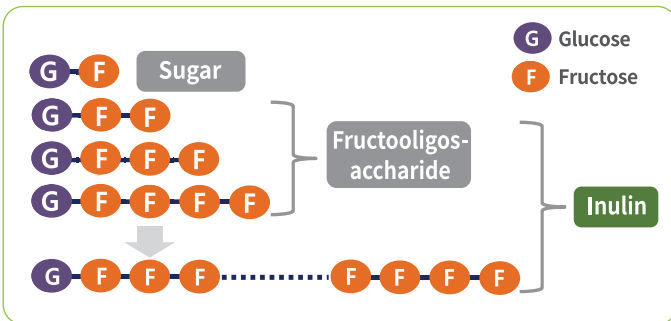


Figure 1. Structure of Fructooligosaccharide

### Features of Organic Fructooligosaccharide

- Organic processed food produced by certified organic raw materials
- Use of unrefined sugar, Abundant mineral without the process of discolorization and ion refinement
- Effect of Evacuation through intestinal regulation
- Inhibition of Growth and Development of harmful bacteria / Reduction of intestinal colony
- Reduction of serum lipid
- Enhancement of the immune system
- Promotion of absorbing mineral in the body (calcium, magnesium, iron, zinc, etc.)

### Proliferation Effect of Lactic Acid Bacteria in Organic Fructooligosaccharide (In-vitro)

To check out the proliferation effect of lactic acid bacteria in organic fructooligosaccharide, the growth of lactic acid bacteria has been observed through anaerobic culture at 37°C after mixing organic fructooligosaccharide with a diet by 5% and 10% and taking it in. As a result, it was confirmed that lactic acid bacteria proliferated in treating organic fructooligosaccharide.

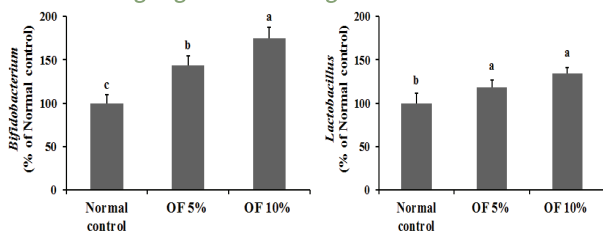
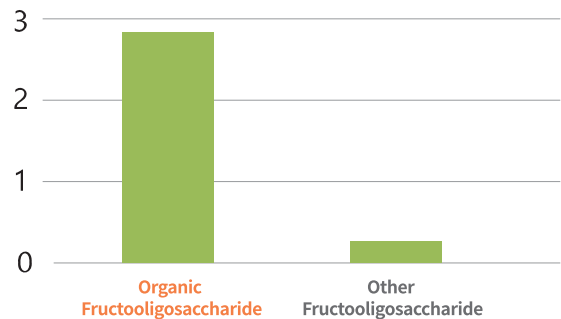


Figure 2. B. bifidum, Lb Proliferation Effect of Fructooligosaccharide (Source : In house data)

### Rich organic minerals

Organic fructooligosaccharide is distinguished from the existing fructooligosaccharide in a manufacturing process, which means that Organic fructooligosaccharide is an environmentally friendly product with beneficial mineral and other nutrients in sugar cane unlike the existing fructooligosaccharide because 1) it uses raw cane sugar, an organic raw material, and 2) it doesn't go through a process of discolorization and a purification process of ion exchange.

### Magnesium (mg/ 100g)



### Calcium (mg/ 100g)

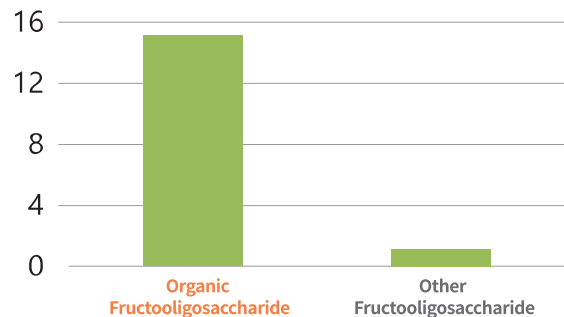


Figure 3. Effect on Improvement of Mineral absorption in Organic Fructooligosaccharide (Source : In house data)

### Product Specifications

Item	Quality specification	
	Organic Neo-FOS-L	Organic Neo-FOS-P
Appearance	Liquid	Powder
Solid content	≥ 75.0 Brix	-
Moisture	-	≤ 5.0%
Fructooligosaccharide Content (DB)	≥ 50.0%	≥ 10.0%
pH(10% solution)	4.0~7.0	4.0~7.0
Lead	≤ 1.0 mg / kg	≤ 1.0 mg / kg
Total plate count	≤ 1,000 cfu/g	≤ 1,000 cfu/g
Coliform group	Negative	Negative
Packing unit	24 kg / 1Ton	25 kg