



# Shandong Saigao Group Corporation.

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## GALACTO-OLIGOSACCHARIDE POWDER

### PRODUCT INTRODUCTION:

Galacto-oligosaccharide (GOS) , is a natural functional oligosaccharide, which exists in animal milk.Using lactose as raw material and by the action of  $\beta$ -galactosidase,the oligosaccharide mixture of galactose molecule is linked by  $\beta$  (1-4),  $\beta$  (1-6) and  $\beta$  (1-3) bonds on the galactose group in the molecule of lactose.It is helpful to improve the constipation and poor calcium absorption of non breastfeeding infants,and to improve the nutritional and health status of infants.

### APPLICATION:

Because of its special properties, galactooligosaccharide have been widely used in dairy products, beverages,bakeries,health products and so on.

### FUNCTION:

Sweetness is 30%-40% of sucrose, and the sweetness is soft and pure

Higher viscosity than sucrose(75Brix at the same sugar degree)

Be stable under high temperature and acidic conditions(pH3.0,160°C , 15 min)

Good moisture retention and can not only provide soft sweetness,but also prolong shelf life when added to baking product.

### PHYSICAL PROPERTIES:

Regulate intestinal flora,increase beneficial bacteria,reduce harmful bacteria

Enhance immunity, prevent allergies,reduce infectious diseases

Improve lacose intolerance;improve blood lipids,reduce total cholesterol and triglyceride

Increase high density lipoprotein cholesterol;promote mineral absorption

### PRODUCT ANALYSIS:

ASSAY	SPECIFICATION		
Product name	Galactooligosaccharide powder		
Type	GOS 57	GOS 70	GOS 90



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Appearance	White or light yellow powder, without visible impurities.		
Moisture,%	≤5.0		
Ash Sulphate,%	≤0.3		
Galacto-Oligosaccharides content (on dry basis),%	≥57.0	≥70.0	≥90.0
Lactose+monosaccharide content (on dry basis),%	≤43.0	≤32.0	≤13.0
pH	2.8-6.0		
Arsenic(As),mg/kg	≤0.5		
Lead(Pb),mg/kg	≤0.5		
Total Plate Count , CFU/g	n	c	m
	3	0	10 <sup>3</sup>
Total Coliform , CFU/g	n	c	m
	3	0	10
Mold,CFU/g	≤25		
Yeast,CFU/g	≤25		

## LABELING:

The packed label indicates:

1. Product name
2. Batch Number
3. Manufacture and expiry date
4. Net weight and gross weight of contents
5. Name and address of manufacturer
6. Name and address importer

## PCAKING & TRANSPORATION

The outer is paper-polymer bag, the inner is food grade polythene plastic bag.



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Net weight : 25kg /bag

Without pallet---17.5MT/20'GP Max

With pallet---15MT/20'GP Max

## **STORAGE & SHELF-LIFE:**

1. Store in dry and cool condition, keep away from material with odor or of volatilization, protect from water and wet.
2. Best within 36 months from manufacturing date.

