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GB

NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 1903.40-2022

**National food safety standard - Food nutritional
fortification substance - Fructooligosaccharide**

食品安全国家标准 食品营养强化剂 低聚果糖

Issued on: June 30, 2022

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**Issued by: National Health Commission of PRC;
State Administration for Market Regulation.**

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National food safety standard - Food nutritional fortification substance - Fructooligosaccharide

1 Scope

This standard applies to food nutrition fortifier - fructooligosaccharides. The food nutrition fortifier - fructooligosaccharide, is the mixture of trisaccharides (GF₂) to fructo-oligosaccharide (GF₇) and fructobiose (F₂) to fructooctaose (F₈), which is made from chicory (or Jerusalem artichoke) as raw material, through partial enzymatic hydrolysis or membrane separation, purification, drying and other processes; OR it is the mixture of trisaccharides (GF₂) to sucrose hexaose (GF₅), which is made using the sucrose as raw material, through the action of β -fructosyltransferase, as derived from *Aspergillus niger* or *Aspergillus oryzae*, via the process of purification and drying, etc.

2 Structural formula

According to the structure, it is divided into sucrose-fructose (GF_n) fructooligosaccharides and fructose-fructose (F_n) fructooligosaccharides. The schematic diagrams of the molecular structures are as shown in Figure 1 and Figure 2, respectively.

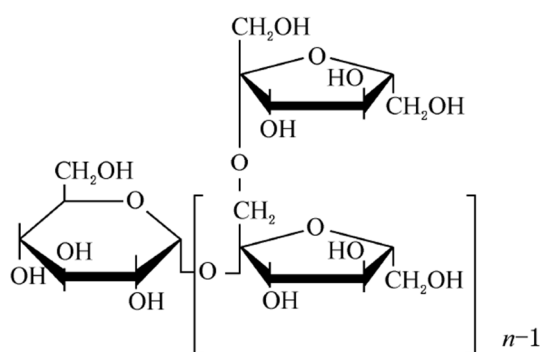


Figure 1 -- Schematic diagram of the molecular structure of sucrose-fructose (GF_n) fructooligosaccharides

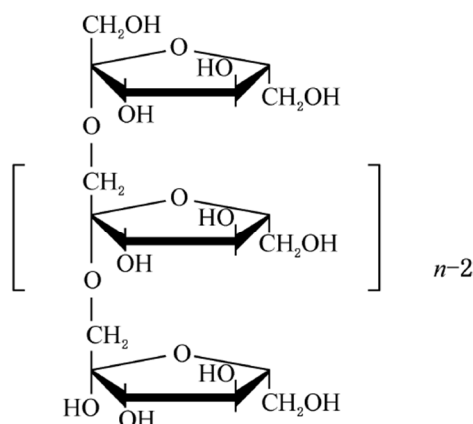


Figure 2 -- Schematic diagram of the molecular structure of fructose-fructose (F_n) fructooligosaccharides

3 Technical requirements

3.1 Sensory requirements

Sensory requirements shall meet the requirements of Table 1.

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