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NATIONAL STANDARD OF THE
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GB 29219-2012

National Food Safety Standard – Food Additive - Sorbitol

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National Food Safety Standard - Food Additive - Sorbitol

1 Scope

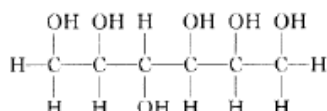
This Standard is applicable to food additive - sorbitol. It takes starch as raw material and can be obtained by hydrolyzation and refined processing of glucose under high pressure hydrogenation in the presence of a catalyst.

2 Molecular formula, structural formula and relative molecular mass

2.1 Molecular formula

$C_6H_{14}O_6$

2.2 Structural formula



2.3 Relative molecular mass

182.17 (according to international relative atomic mass in 2007)

3 Technical requirements

3.1 Sensory requirements: it shall comply with the provisions in Table 1.

Table 1 Sensory requirements

Item	Requirements	Inspection method
Color	White	Place an appropriate amount of sample in a clean, dry white porcelain dish; observe its color and state under natural light.
State	Crystalline powder, flakes or granules, with moisture absorption	

Appendix A

Inspection method

A.1 General provisions

Unless other requirements specified, reagents and water used in this Standard all refer to analytical reagents and Grade 3 water stipulated in GB/T 6682-2008. Unless other requirements specified, the standard solution, impurity standard solution, preparations and products used for test shall be prepared based on the provisions of GB/T 601, GB/T 602 and GB/T 603. The solution shall refer to aqueous solution if it is not indicated.

A.2 Identification test

In the test of measuring sorbitol content, the peak retention time in sample solution chromatogram shall be consistent with that in standard solution chromatogram.

A.3 Determination of sorbitol (in dry basis)

A.3.1 Method summary

Use high performance liquid chromatography. Under the selected operating conditions, take water as mobile phase, use high-pressure infusion pump to pump mobile phase into chromatographic column which is filled with Ca type strong acid cation exchange resin filler, so as to separate each component in the sample solution. Use refractive index detector to detect. Record and process chromatographic signals by data processing system.

A.3.2 Reagents and material

A.3.2.1 Water: Grade 1 water that complies with GB/T 6682-2008.

A.3.2.2 Sorbitol standard sample: purity $\geq 98\%$.

A.3.3 Apparatus

High performance liquid chromatography equipped with refractive index detector

A.3.4 Reference chromatographic conditions

A.3.4.1 Mobile phrase: water (A.3.2.1)

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