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**GB**

NATIONAL STANDARD OF THE  
PEOPLE'S REPUBLIC OF CHINA

**GB 1886.370-2023**

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**National Food Safety Standard -- Food Additive -- Sodium  
Starch Octenyl Succinate**

食品安全国家标准 食品添加剂 辛烯基琥珀酸淀粉钠

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**Issued by: National Health Commission of the People's Republic of China;  
State Administration for Market Regulation.**

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# **National Food Safety Standard -- Food Additive -- Sodium Starch Octenyl Succinate**

## **1 Scope**

This Standard applies to the food additive sodium starch octenyl succinate produced by esterification of starch and octenyl succinic anhydride, as well as a combination of enzyme treatment, dextrinization, acid treatment, bleaching treatment, and pregelatinization.

## **2 Technical requirements**

### **2.1 Sensory requirements**

Sensory requirements should comply with Table 1.

### **2.2 Physical and chemical indicators**

The physical and chemical indicators should comply with the provisions of Table 2.

## **Annex A**

### **Inspection methods**

#### **A.1 General**

Unless other requirements are specified, the reagents and water used in this Standard refer to analytically pure reagents and grade three water specified in GB/T 6682. The standard solutions, standard solutions for impurity determination, preparations and products used in the test shall be prepared in accordance with the provisions of GB/T 601, GB/T 602 and GB/T 603, unless other requirements are specified. The solutions used in the test refer to aqueous solutions unless the solvent used to prepare them is specified.

#### **A.2 Identification tests**

##### **A.2.1 Iodine staining test**

Weigh 1 g of the specimen and add it to 20 mL of water to form a suspension. Add a few drops of iodine solution. The color is dark blue to brownish red.

##### **A.2.2 Copper reduction test**

###### **A.2.2.1 Reagents and materials**

Hydrochloric acid solution: 7+93.

###### **A.2.2.2 Analysis steps**

Weigh 2.5 g of the specimen and place it in a long-neck flask. Add 10 mL of hydrochloric acid solution and 70 mL of water. Well mix them. Reflux for 3 h. Cool them down. Take 0.5 mL of cooled solution. Add 5 mL of hot alkaline copper tartrate TS. A large amount of red precipitate is produced.

To prepare alkaline copper tartrate test solution, follow the steps below.

- a) Solution A: Weigh 34.66 g of copper sulfate crystals ( $\text{CuSO}_4 \cdot 5\text{H}_2\text{O}$ ). The crystals should show no signs of weathering or moisture absorption. Add water to dissolve and adjust the volume to 500 mL. Keep this solution in a small airtight container.
- b) Solution B: Weigh 173 g of potassium sodium tartrate crystals ( $\text{KNaC}_4\text{H}_4\text{O}_6 \cdot 4\text{H}_2\text{O}$ ) and 50 g of sodium hydroxide ( $\text{NaOH}$ ). Add water to dissolve and adjust the volume to 500 mL. Store this solution in a small, alkali-resistant container.
- c) Mix solution A and solution B in equal volumes to obtain alkaline copper tartrate

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Accountable person and shareholder: Wayne Zheng

About Us (Goodwill, Policies, Fair Trading...): <https://www.chinesestandard.net/AboutUs.aspx>

Contact: Wayne Zheng, [Sales@ChineseStandard.net](mailto:Sales@ChineseStandard.net)

Linkin: <https://www.linkedin.com/in/waynezhengwenrui/>

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