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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB 1886.319-2021

**National Food Safety Standard –
Food Additives – Hippophae Rhamnoides Yellow**

食品安全国家标准 食品添加剂 沙棘黄

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National Food Safety Standard – Food Additives – Hippophae Rhamnoides Yellow

1 Scope

This Standard is applicable to the food additive of hippophae rhamnoides yellow made from the fruit and pomace of the plant sea buckthorn (*Hippophae rhamnoides* L.), extracted by n-hexane or ethanol, or extracted with supercritical carbon dioxide, and then obtained through refining and other processes.

2 Technical Requirements

2.1 Sensory requirements

The sensory requirements shall comply with the provisions of Table 1.

Table 1 Sensory Requirements

2.2 Physical and chemical indicators

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

Appendix A

Test Methods

A.1 General provisions

When there are no other requirements, the reagents and water used in this Standard refer to analytical reagents and Class-III water that complies with the provisions of GB/T 6682. When there are no other requirements, the standard solutions, impurity standard solutions, preparations and products used in the test shall all be prepared in accordance with the provisions of GB/T 601, GB/T 602, and GB/T 603. The solution used in the test refers to the aqueous solution when the solvent is not specified.

A.2 Identification test

A.2.1 Solubility

It is not easily soluble in water; but easily soluble in organic solvents such as n-hexane, petroleum ether, acetone, etc. The solution shall be yellow.

A.2.2 Colour reaction

A.2.2.1 Reagents and materials

A.2.2.1.1 Phosphomolybdic acid solution: Take 5.0g of phosphomolybdic acid; add absolute ethanol to make the constant volume to 100mL; and get it.

A.2.2.1.2 Sulfuric acid: 98%.

A.2.2.1.3 Bromophenol blue solution: Take 1.0g of bromophenol blue; add absolute ethanol to make the constant volume to 100mL; and get it.

A.2.2.1.4 Antimony trichloride solution: a trichloromethane solution saturated with antimony trichloride.

A.2.2.2 Measurement procedures

Dip the silica gel G thin-layer TLC plate in the yellow pigment solution. The developing solvent can be 95% ethanol or absolute ethanol. After taking it out, it shall air dry; and the TLC plate shall be yellow. Drop the above-mentioned reagent solution on this thin-layer plate and observe the colour development.

Blank test: Take a blank silica gel G thin-layer TLC plate immersed in the same developing solvent; titrate the corresponding colour reagents; and observe the colour development.

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