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**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB 1886.366-2023

National Food Safety Standard Food Additive beta-Carotene

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536.89 (according to 2018 international relative atomic mass)

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Foreword

This standard replaces GB 8821-2011 "National Food Safety Standard Food Additive Beta-Carotene".

Compared with GB 8821-2011, the main changes in this standard are as follows.

---Changed the starting materials in the range;

---Changed the color item requirements in the sensory requirements;

--- Put the contents under the identification test items into physical and chemical indicators;

---Deleted the smell item requirement in the sensory requirements;

---Deleted three indicators in the physical and chemical indicators. clarity test, melting point, and heavy metals (calculated as Pb);

---Added lead (Pb) indicator;

---Added description of commercialized products.

National food safety standards

Food additive beta-carotene

1 Scope

This standard applies to the food additive beta-carotene prepared by chemical synthesis

using retinyl acetate or beta-ionone as starting materials.

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2.1 Chemical name

All-trans-1,1'-(3,7,12,16-tetramethyl-1,3,5,7,9,11,13,15,17-octadecene-1,18-dibase)bis[2,6,6-trimethylcyclohexene]

2.2 Molecular formula

C₄₀H₅₆

3.1 Sensory requirements

Sensory requirements should comply with Table 1.

Table 1 Sensory requirements

Project requirements inspection method

color

state

red to reddish brown

Crystal or crystalline powder

Take an appropriate amount of sample, place it in a clean, dry white porcelain plate, and observe it under natural light.

Check its color and condition

3.2 Physical and chemical indicators

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