

SPECIFICATION

Product name Beta carotene Food grade
Product code SPHS03
Production site Shangyu NHU Biochem
Trade name Beta carotene 98 % E160a(i) Food grade (EP/USP)

Description

Synonym β , β -Carotene
Formula C₄₀H₅₆
CAS No 7235-40-7

Properties

Shelf life 12 months after production date, in unopened original packaging
Aspect a brown-red or brownish-red, crystalline powder, practically insoluble in water, slightly soluble in cyclohexane and ether, practically insoluble in ethanol
Assay $\leq 98 - 101$ %
Melting range 176 – 182 °C
Loss on drying max. 0,2 %
Subsidiary colouring matters Carotenoids other than beta-carotene not more than 3,0 % of total colouring matters (JECFA)

Absorbance ratio

455 nm/483 nm 1,14 – 1,19 (JECFA)
455 nm/340 nm $\geq 1,5$ (JECFA)

OVI meets USP requirements
Sulphated ash Max. 0,1 % (JECFA)

Heavy metals

Arsenic (As) Max. 1 mg/kg
Lead (Pb) Max. 1 mg/kg
Mercury (Hg) Max. 0,1 mg/kg
Cadmium (Cd) Max. 1 mg/kg

Microbiological specs

Total plate count ≤ 1000 CFU/g
Mould and Yeast ≤ 100 CFU/g
E. coli $< 0,3$ MPN/g
Salmonella negative in 25 g

Handling

Usage	for food and cosmetic use
Stability	Preserve in airtight, light-resistant container. Product is sensitive to air, heat and light, especially in solution.
Storage	Recommended storage temperature is <25 °C.
Transport instructions	See our latest safety data sheet

Product complies to EU 231/2012 of 9th of March 2012, USP, EP9.6, FCC9 and JECFA.

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