

## SPECIFICATION

### Beta carotene 98 % E160a(i) Food grade (EP/USP)

#### Production unit

Shangyu NHU Biochem

#### Description

Synonym  $\beta$ ,  $\beta$ -Carotene  
 Formula  $C_{40}H_{56}$   
 Product code SPHS03  
 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 – 1,18 (EP9.6)  
 455 nm/340 nm  $\geq 1,5$  (EP9.6)

#### 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  $\leq 1000$  CFU/g  
 Mould and Yeast  $\leq 100$  CFU/g  
 E. coli negative in 10 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 9<sup>th</sup> of March 2012, USP42, EP9.6, FCC9 and JECFA.

## NHU EUROPE GmbH