

SPECIFICATION

Beta carotene 10 % SD CWS/S Food grade

Production unit

Xinchang NHU Vitamins

Description

Ingredients

Beta carotene (E160a(i)), modified starch, Ascorbic acid, sunflower seed oil and DL-alpha-Tocopherol (E307) as antioxidant, silicium dioxide (E551) as anti-caking agent

Synonym

β, β-Carotene

Formula

C₄₀H₅₆

Product code

SP06-07

CAS No

7235-40-7

Properties

Shelf life

24 months after production date, in unopened original packaging

Aspect

free flowing red powder

Colour intensity

in aqueous solution A (1 %, 1 cm) > 100

Assay (GC)

≥ 10 %

Loss on drying

≤ 5,0 %

Solubility

Dispersible in cool water forming an emulsion

Sieve analysis

100 % through Sieve No. 20 (US)

≥ 95 % through Sieve No. 40 (US)

Identification

EP

UV and visible absorption spectrophotometry

USP

A: Absorbance ratio A₄₅₅/A₄₈₃ between 1.14 and 1.18

B: The retention time of the major peak of the sample solution corresponds to that of the standard solution, as obtained in the test for content of Beta carotene

Heavy metals

≤ 5 mg/kg

Arsenic (As)

≤ 1 mg/kg

Lead (Pb)

≤ 0,5 mg/kg

Mercury (Hg)

≤ 0,1 mg/Kg

Cadmium (Cd)

≤ 0,5 mg/Kg

Microbiological specs

Total plate count	≤ 1000 CFU/g
Mould and Yeast	≤ 100 CFU/g
Coliforms	< 0,3 MPN/g
E. coli	negative in 10 g
Salmonella	negative in 25 g
Staph. aureus	negative in 25 g

Handling

Usage for food and cosmetics applications

Stability Sensitive to moisture, oxygen, heat and light

Storage Should be stored in original unopened containers at a temperature below 25 °C. Once opened, use contents quickly. Store in a cool, dry place.

The product complies to the current USP version for Beta carotene preparations. The included active ingredient Beta-Carotene (E160a(i)) complies to EU 231/2012 of 9th of March 2012, USP42, EP9.6, FCC9 and JECFA.

NHU EUROPE GmbH

Beta carotene 10 % SD CWS/S/SP06-07/üa u fgg 250821/av

Bank account EUR
Deutsche Bank AG
DE 53 2407 0075 0019 5222 00
DEUTDE2H240

Bank account USD
Deutsche Bank AG
DE 53 2407 0075 0019 5222 0005
DEUTDE2H240

NHU EUROPE GMBH
VAT Nr: DE 300 149 623 | Company license Nr: HRB 205610
District Court: Lüneburg/Germany
General Manager: Thomas Hoops