

SPECIFICATION

Product name Beta carotene 1 % SD CWS/A
Food grade
Product code SP06-21
Production site Xinchang NHU Vitamins

Description

Ingredients Beta carotene (E160a(i)), gum Arabic, maltodextrin, sucrose, octyl and decyl glycerate, sodium ascorbate and DL-alpha-Tocopherol (E307) as antioxidant, tricalcium phosphate as anti-caking agent

Synonym β , β -Carotene
Formula C₄₀H₅₆
Molecular weight 536,9 g/mol
CAS No 7235-40-7

Properties

Shelf life 30 months after production date, in unopened original packaging

Aspect free flowing red-orange powder

Colour intensity of aqueous solution A (1 %, 1 cm) at min. 25

Assay (GC) $\geq 1,0$ %

Loss on drying $\leq 5,0$ %

Solubility Dispersible in cold water forming an emulsion

Sieve analysis ≥ 95 % through sieve No. 50 (US)

Heavy metals ≤ 5 mg/kg

Arsenic (As) ≤ 1 mg/kg

Lead (Pb) $\leq 0,5$ mg/kg

Mercury (Hg) $\leq 0,1$ mg/kg

Cadmium (Cd) $\leq 0,5$ mg/kg

Microbiological specs

Total plate count ≤ 1000 CFU/g

Mould and Yeast ≤ 100 CFU/g

Coliforms < 10 CFU /g

E. coli negative in 10 g

Salmonella negative in 25 g

Staph. aureus negative in 25 g

Handling

Usage

Stability

Storage

for food and cosmetics applications

Sensitive to moisture, oxygen, heat and light.

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, USP, EP9.6, FCC9 and JECFA.

NHU EUROPE GmbH