

SPECIFICATION

Beta carotene 1 % SD CWS/A Food grade

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

Product code

SP06-21

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)

≥ 1,0 %

Loss on drying

≤ 5,0 %

Solubility

Dispersible in cold water forming an emulsion

Sieve analysis

≥ 95 % through sieve No. 50 (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, USP, EP9.6, FCC9 and JECFA.

NHU EUROPE GmbH

Beta carotene 1 % SD CWS/A/SP06-21/überarbeitet und freigegeben: 04072022/av

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