

## 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

$\beta$ ,  $\beta$ -Carotene

Formula

$C_{40}H_{56}$

Product code

SP06-21

CAS No

7235-40-7

#### Properties

Shelf life

24 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

$\geq 95$  % through sieve No. 80 (US)

Identification

EP

UV and visible absorption spectrophotometry

USP

A: Absorbance ratio A455/A486 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

$\leq 5$  mg/kg

Arsenic (As)

$\leq 1$  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

$\leq 1000$  CFU/g

Mould and Yeast

$\leq 100$  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 9<sup>th</sup> of March 2012, USP42, EP9.6, FCC9 and JECFA.

## NHU EUROPE GmbH