

## 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

C<sub>40</sub>H<sub>56</sub>

##### 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)

##### 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

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 9<sup>th</sup> of March 2012, USP, EP9.6, FCC9 and JECFA.

## NHU EUROPE GmbH

*Beta carotene 1 % SD CWS/A/SP06-21/überarbeitet und freigegeben: 06032023/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