

## SPECIFICATION

## Beta carotene 10 % CWS/S Food grade

### Production unit

Xinchang NHU Vitamins

### Description

#### Ingredients

Beta carotene (E160a(i)), modified starch, corn starch, Vitamin C (E301) and DL-alpha-Tocopherol (E307) as antioxidant, silicon dioxide (E551) as anti-caking agent

#### Synonym

$\beta$ ,  $\beta$ -Carotene

#### Formula

$C_{40}H_{56}$

#### Product code

SP06-08

#### CAS No

7235-40-7

### Properties

#### Shelf life

24 months after production date, in unopened original packaging

#### Aspect

red microcapsule

#### Identification

Absorbance ratio of A455/A483: 1,14 to 1,18

#### Colour intensity in aqueous solution A (1 %, 1 cm) > 80

#### Assay (GC)

$\geq 10$  %

#### Loss on drying

$\leq 5,0$  %

#### Solubility

Dispersible in cool water forming an emulsion

#### Sieve analysis

100 % through Sieve No. 20 (US)

$\geq 95$  % through Sieve No. 30 (US)

$\leq 15$  % through Sieve No. 100 (US)

### Heavy metals

#### Arsenic (As)

< 5 mg/kg

< 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.
Transport instructions	please see our latest MSDS

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**