

## SPECIFICATION

## Beta carotene 30 % with sunflower oil Food Grade

### Production unit

Zhejiang NHU Company

### Description

#### Ingredients

Betacarotene (E160a(i)), sunflower oil, Alpha-Tocopherol as antioxidant (e307)

#### Synonym

$\beta$ ,  $\beta$ -Carotene

#### Formula

$C_{40}H_{56}$

#### Product Code

YYHY21/SPHY21

#### CAS-No.

7235-40-7

#### Aspect

reddish brown viscous liquid

### Properties

#### Shelf life

36 months after production date, in unopened original packaging

#### Assay

min. 30 %

#### Identification (JECFA)

$A_{455}/A_{483}$ : 1,14 – 1,18

$A_{455}/A_{340}$ : min. 1,5

$A_{340}$ : max. 0,08

Absorption maximum: 453-457 nm

#### Peroxide value

max. 10 meq/kg

#### Sulphated Ashes

max. 0,1 %

### Heavy metals

#### Arsenic (As)

$\leq 5$  mg/kg

$\leq 1$  mg/kg

#### Lead (Pb)

$\leq 2$  mg/kg

#### Mercury (Hg)

$\leq 0,1$  mg/Kg

#### Cadmium (Cd)

$\leq 1$  mg/Kg

### Microbiological Specs

#### Total plate count

$\leq 1000$  CFU/g

#### Mould and Yeast

$\leq 100$  CFU/g

#### E. coli

negative (in 10 g)

#### Salmonella spp

negative (in 25 g)

#### Staph. aureus

negative (in 25 g)

**Handling**

Usage for food and cosmetic applications

**Stability**

Beta carotene is sensitive to oxygen, light and heat. Material must be stored in the original unopened packing.

**Storage**

Store in a dry place, in tight, light-resistant containers under inert gas. Recommended storage temperature below 20° C.

**Transport instructions**

See our latest safety data sheet.

The ingredient Beta carotene (E160(i)) complies to EP 9.6/USP 42/JECFA/FCC and EU 231/2012 of 9<sup>th</sup> of March 2012.

**NHU EUROPE GmbH**