

# Betatene® 10% N OU Natural Mixed Carotenoids

## Chemical names of active ingredient

Algal carotenes, carotenes (algae)

**CAS-No.** 7235-40-7

**EINECS-No.** 230-636-6

## PRD-No.

30531927

## Articles

50240483 25 kg fiber drum

## Country of origin

Japan

## Description

Dark-red, microencapsulated tablet grade powder. The carotenes are obtained from the alga *Dunaliella salina* and contain a mix of trans- and cis-isomers of beta-carotene as found in nature.

## Bulk density

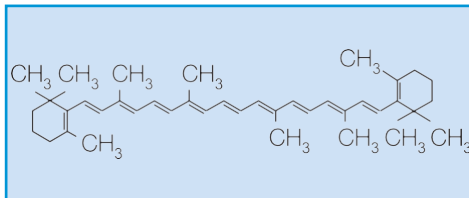
0.65 – 0.75 g/ml

## Composition

Ingredients in descending order of weight: fish gelatine, olive oil, sucrose, algal carotenes, ascorbyl palmitate, tocopherol-rich extract, silicon dioxide.

## Solubility

Insoluble in water, slightly soluble in organic solvents.



**(Main) active(s):** beta-carotene

**Molecular formula:** C<sub>40</sub>H<sub>56</sub>

**Molar mass:** 536.9 g/mol

## Specification

Assay (content of carotenes min. 100.0 mg/g calculated as beta-carotene)

For further information see separate document: "Product Specification" (not for regulatory purposes).

## Monographs

The active ingredient algal carotenes used in Betatene® 10% N OU meets the requirements of the current JECFA monograph (β-carotene-rich extract from *Dunaliella salina*, INS 160a (iv)). Furthermore the product complies with the purity criteria of the European Union for algal carotenes, E160a (iv).

## Standards

The product is kosher and halal. For quality documentation please see „Quality and Regulatory Product Information“ (QRPI, 18. Quality Documentation).

## Regulations

Algal carotenes can be used as nutritional substance (provitamin A source) in several applications. However, specific regulations on the ingredients used in the respective countries and for the intended use have to be considered.

## Stability, Storage and Handling

Stored in the unopened original packaging at ambient temperature (max. 30 °C) in a dry place, the product is stable for at least 36 months. Carotenes are sensitive to light, heat and oxygen and need to be stored in a light proof and airtight container.

## Applications

### Dietary supplements:

Betatene® 10% N OU is intended for use as a source of provitamin A in dietary supplements. The product may be formulated in single entity or in multivitamin tablets using direct compression. The high concentration powder withstands the pressure of compression while retaining carotenoid stability. For best results, use direct compression without wet granulation. Its free-flow properties make it also suitable for application in hard gelatin capsules.

## Note

Betatene® 10% N OU must be handled in accordance with the Safety Data Sheet.

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