

# Betatene® 10%N Natural Mixed Carotenoids

## Chemical names of active ingredient

Algal carotenes, carotenes (algae)

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

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

**PRD-No.**  
30528274

## Articles

50240474 10 kg fiber drum

**Country of origin**  
Japan

## Description

Dark-red, microencapsulated tablet grade powder with mixed carotenes.

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

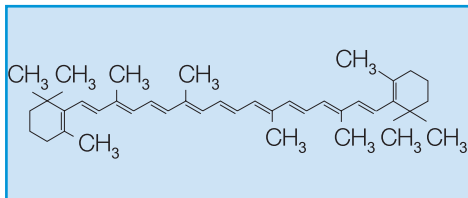
0.65 – 0.75 g/ml

## Composition

Ingredients in descending order of weight: Pork gelatine, olive oil, sucrose, algal carotenes (E 160a), ascorbyl palmitate (E 304), tocopherol-rich extract (E 306), silicon dioxide (E 551).

## 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 calculated as beta-carotene) min. 10%

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

## Monographs

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

## Regulations

Algal carotenes can be used as nutritional substance (provitamin A source) or food colorant 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 is a source of mixed carotenes and can be used in single entity or in multivitamin tablets using direct compression. For best results, direct compression without wet granulation should be used. Due to its free-flowing properties, Betatene® 10% N is also suitable for hard gelatin capsules.

## Note

The product must be handled in accordance with the Safety Data Sheet.

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