

Betatene® 7.5% 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.
30528306

Articles

50240450 10 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

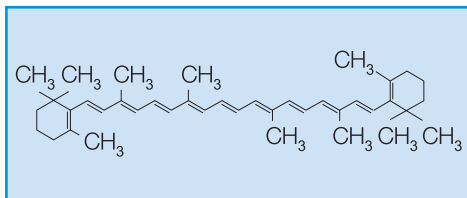
0.65 – 0.75 g/ml

Composition

Ingredients in descending order of weight: Pork gelatine, sucrose, soybean oil, 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.



C₄₀H₅₆ (Beta-Carotene) Molar mass 536.9 g/mol

Specification

Assay (content of carotenes calculated as beta-carotene) min. 7.5 %

For further information see separate document: "Standard Specification" (not for regulatory purposes) available via BASF's WorldAccount: <https://worldaccount.basf.com> (registered access).

Monographs

Algal carotenes used in Betatene® 7.5% N meet the purity requirements of the current JECFA monograph (carotenes, algae). Furthermore the product comply with the purity criteria of the European Union for algal carotenes, E 160a (iv).

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® 7.5% N is intended for use as a source of mixed carotenes 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® 7.5% N must be handled in accordance with the Safety Data Sheet.

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