Lucarotin® 1 CWD/Y

Microencapsulated beta-carotene, spray-dried

Chemical name(s) of active ingredient

Beta-carotene

CAS-No.	7235-40-7
EINECS-No.	230-636-6

PRD

30249105

Articles

50219030	2 x 5 kg bag in box
52574132	20 kg bag in box
50203124	0.1 kg aluminum drums

Description

Red-orange, cold-water dispersible powder with a mild characteristic odor.

Benefits

Vegetarian/vegan[1], kosher, halal, allergen-free[2], gluten-free[3]

Composition

Ingredients in descending order of weight: glucose syrup, starch sodium octenyl succinate, medium-chain triglycerides, sodium ascorbate, beta-carotene, *all-rac*-alpha-tocopherol (DL-alpha-tocopherol), tricalcium phosphate

Solubility

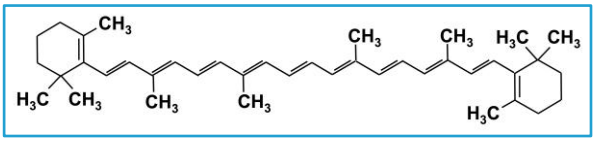
The product can be scattered into stirred cold water to obtain a fine dispersion with clear yellow color (Y = yellow).

Specification

Beta-Carotene	min. 1.0 g/100g

For further information see *Product Specification* (not for regulatory purposes) available in BASF's Human Nutrition Virtual Assistants:

https://nutritionvirtualassistants.basf.com



$C_{40}H_{56}$ **536.9 g/mol**

Regulations

For quality documentation and compliance please see *Quality & Regulatory Product Information* and *Product Specification*. Regulatory provisions for the use of tricalcium phosphate in the different product categories have to be considered. It is the obligation of the user to check the regulations on the ingredients used in the respective countries and for the intended use.

Bulk density

0.5 – 0.65 g/ml

Stability and storage

Beta-carotene is sensitive to light, heat and oxygen and needs to be stored in a light-proof and airtight container. Stored in its unopened, original packaging at temperatures not above 25 °C, in a dry place, the product is stable for at least 36 months.

Handling

The powder can either be added directly during the production process or added to 20 – 100 times its weight of water first (stock dispersion). Slowly scatter the product into stirred water and use immediately. Ascorbic acid is recommended as an antioxidant and hydrocolloids are useful for stabilization of beverages where no juice is present. It is recommended to use up the remaining contents quickly once the package has been opened.

Applications

For use in hard-shell capsules, syrups, gummies, bars and similar applications.

Lucarotin® 1 CWD/Y provides a clear, yellow color in aqueous solution. Due to its excellent dispersibility in cold water the product is easy to handle and suitable for dry mixes (e.g., instant drinks), foods (e.g., confectionary, baked goods, dairy products) and beverages (e.g., soft drinks). The product is gelatin-free and particularly suitable for vegetarian products.

Beta-Carotene can be used as provitamin A source and as colorant. Suitability of these applications is presented based solely on technical feasibility. Local prevailing legal or regulatory requirements are not considered and should be observed separately. This product is not intended and recommended by BASF for use in food for infants and young children and has not been qualified by BASF for use in those applications with specific requirements. BASF is not testing or manufacturing the product to meet requirements which are applicable for these applications. BASF disclaims any representations, warranties and guarantees of fitness for such particular uses.

Note

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

[1] According to International Standard ISO 23662 on definitions and technical criteria for foods and food ingredients suitable for vegetarians or vegans and for labelling and claims.
[2] No labeling requirements with regard to allergens according to EU regulation (EC) No 1169/2011 (as amended) and the US Food Allergen Labeling and Consumer Protection Act (FALCPA).
[3] No ingredients used containing gluten. However, products are not explicitly tested on gluten.

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