

# Lutein 5% DC

## Chemical names of active ingredient

Lutein,  $\beta$ - $\epsilon$ -carotene-3,3'-diol (3R, 3'R, 6'R)

**CAS-No.** 127-40-2

**EINECS-No.** 204-840-0

**PRD-No.**  
30267108

## Article

51843209 25 kg bag in box

**Country of origin**  
Denmark

## Description

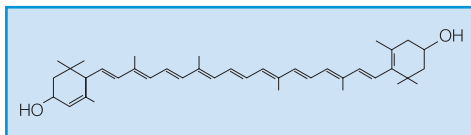
Free-flowing, dark-orange powder, consisting of spherical particles with a uniform particle size. Some white to yellow starch particles may be visible.

## Composition

Ingredients in descending order of weight: gelatin, sucrose, corn starch, lutein, tricalcium phosphate, DL-alpha-tocopherol, sodium ascorbate, ascorbyl palmitate.

## Solubility

Dispersible in warm water (35 – 40 °C), to form a stable yellow-to-orange dispersion. Insoluble starch particles may be visible.



**Molecular formula:**  $C_{40}H_{56}O_2$

**Molar mass:** 568.9 g/mol

## Specification

### Lutein

Assay min. 5%

### Zeaxanthin

Assay min. 0.25%

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

## Monographs

The active ingredient complies with the current "Lutein" USP monograph.

## Regulations

Lutein is approved for use as a food colorant and as a nutritional ingredient in most countries. However, specific regulations on the ingredients used in the respective countries and for the intended use have to be observed.

### **Bulk density**

Approx. 0.6 g/ml

### **Stability**

The product is stabilized with tocopherol (E307), sodium ascorbate (E301), and ascorbyl palmitate. Stored in its original packaging at room temperature (max. 25 °C), the product is stable for at least 36 months.

### **Storage/Handling**

The product is sensitive to oxygen, light, heat, and moisture, and should therefore be stored in the tightly sealed original packaging at room temperature (max. 25 °C), in a dry place, protected from daylight.

### **Applications**

#### Dietary supplements

The product has been designed for the direct compression of multivitamin mineral tablets as well as hard-shell capsules. It is also suitable for single entities and sugar- or film-coated tablets.

### **Note**

Lutein 5% DC must be handled in accordance with the Safety Data Sheet.

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