

Xangold® 10% GFB

Chemical names of active ingredient

Lutein
Lutein esters

CAS-No. 127-40-2

EINECS-No. 204-840-0

PRD-No.
30534824*

* The product is kosher and halal.

Articles

50241042 25 kg fibre drum

Country of origin

Japan

Description

Dark, reddish-brown, gelatin-free microencapsulated tablet grade powder containing natural mixed carotenoid esters isolated from marigold flowers (*Tagetes erecta*). The esters comprise primarily lutein esters.

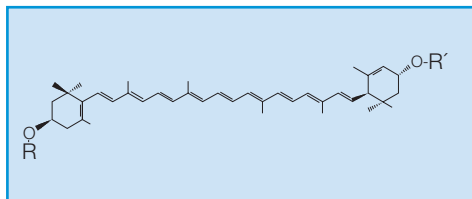
Typical Profile as Esters

Total Carotenoid Esters	min.	100.0 mg/g
Lutein Esters*	approx.	95.1 mg/g
Zeaxanthin Esters*	approx.	4.9 mg/g

* Typical values, not determined regularly.

Theoretical Profile as Free Carotenoids (chemical conversion converts the carotenoid esters to free carotenoids)

Total Carotenoids	54.0 mg/g
Lutein	51.4 mg/g
Zeaxanthin	2.6 mg/g



R, R' = mainly C₁₃H₂₇CO-, C₁₅H₃₁CO-,
C₁₇H₃₅CO-Average Molar mass 1056.5 g/mol
Main constituent: Lutein dipalmitate
C₇₂H₁₁₆O₄ Molar mass 1045.7 g/mol

Composition

Ingredients in descending order of weight: Sucrose, agar, palm oil, lutein, ascorbyl palmitate, calcium stearate, tocopheryl-rich extract, sodium ascorbate, silicon dioxide.

Solubility

Insoluble in water, slightly soluble in organic solvents.

Specification

Assay (content of natural mixed carotenoid esters) min. 100.0 mg/g

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

Regulations

Lutein esters are 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 considered.

Bulk density

0.65 – 0.75 g/ml

Stability, Storage and Handling

Stored in the unopened original packaging at ambient temperature (max. 25 °C) in a dry place, the product is stable for at least 36 months. Carotenoids are sensitive to light, heat and oxygen and need to be stored in a light proof and airtight container.

Applications

Dietary supplements:

Xangold® 10% GFB as a source of lutein esters may be formulated in single entity or in multivitamin tablets using direct compression. For best results, it is recommended to use direct compression without wet granulation. Due to its free-flowing properties, Xangold® 10% GFB is also suitable for the application in hard gelatin capsules.

Food products:

Xangold® 10% GFB as a source of lutein esters may be formulated in various applications. The agar contained in Xangold® 10% GFB melts at approx. 100 °C releasing the lutein esters from the encapsulation.

Note

Xangold® 10% GFB must be handled in accordance with the Safety Data Sheet.

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