

Xangold® 20%

Chemical names of active ingredient

Lutein
Lutein esters

CAS-No. 127-40-2

EINECS-No. 204-840-0

PRD-No.
30535922

Articles

50231045 25 kg fibre drum

Country of origin
Japan

Description

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

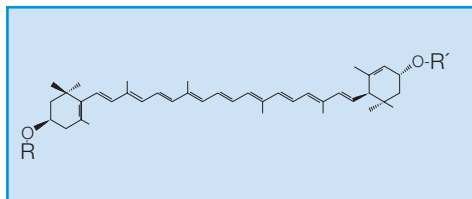
Typical Profile as Esters

Total Carotenoid Esters	min.	200.0 mg/g
Lutein Esters*	approx.	190.2 mg/g
Zeaxanthin Esters*	approx.	9.8 mg/g

* Typical values, not determined regularly.

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

Total Carotenoids	108.0 mg/g
Lutein	102.8 mg/g
Zeaxanthin	5.2 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:
Gelatin, lutein, palm oil, ascorbyl palmitate, sucrose, tocopheryl-rich extract, silicon dioxide.

Solubility

Insoluble in water, slightly soluble in organic solvents.

Specification

Assay (content of natural mixed carotenoid esters) min. 200 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 24 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® 20% 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® 20% is also suitable for the application in hard gelatin capsules.

Food products:

Xangold® 20% as a source of lutein esters may be formulated in various applications. The gelatin contained in Xangold® 20% melts at approx. 45 °C releasing the lutein esters from the encapsulation.

Note

Xangold® 20% must be handled in accordance with the Safety Data Sheet.

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