

Chemical names

Lycopene

CAS No.	502-65-8
EINECS No.	207-949-1

Product number

10237073

Description

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

Composition

The powder particles consist of lycopene embedded in a matrix of gelatin and sucrose, coated with starch. They contain DL- α -tocopherol (E 307), sodium ascorbate (E 301) and ascorbyl palmitate (E 304) as antioxidants and tricalcium phosphate (E 341) as an anti-caking agent.

Solubility

Dispersible in warm water (35-40°C), in which it forms a stable red dispersion.

Specification

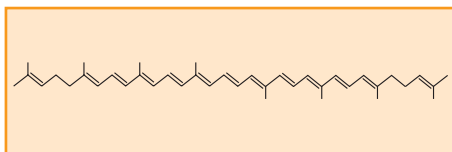
Assay:	min. 10% lycopene
Loss on drying:	max. 5% (4 hours at 105°C)

Monographs

No monographs are available for Lycovit® 10% DC.

Particle-size distribution

100% smaller than 850 μm (20 mesh USP)
min. 95% smaller than 425 μm (40 mesh USP)
max. 15% smaller than 150 μm (100 mesh USP)

 $\text{C}_{110}\text{H}_{156}$

Molar mass 536.9 g/mol

Bulk density

Approx. 0.6 g/ml

Stabilization/Stability

The product is stabilized with tocopherol (E 307), sodium ascorbate (E 301) and ascorbyl palmitate (E 304).

The stability of Lycovit® 10% DC is excellent even in the presence of minerals. The product has a high mechanical integrity and little or none of the lycopene is expressed during tableting, resulting in good stability in the tablets. Stored in the original packaging at room temperature (max. 25°C), the product is stable for at least 36 months.

Standard packaging

5 and 25 kg.

Please see appendix I for further information.

Storage

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:

Due to its excellent flow properties, LycoVit® 10% DC is particularly suitable for use in multivitamin/mineral tablets, single entity lycopenic tablets as well as hard gelatin capsules.

Food products:

Due to its composition, LycoVit® 10% DC is especially suitable for use in food supplement preparations such as plain, effervescent and sugar-coated tablets.

Note

LycoVit® 10% DC must be handled in accordance with the Safety Data Sheet.

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests: neither do these data imply any guarantee of certain properties, nor the suitability of the product for a specific purpose. Any descriptions, drawings, photographs, data, proportions, weights etc. given herein may change without prior information and do not constitute the agreed contractual quality of the product. It is the responsibility of the recipient of our products to ensure that any proprietary rights and existing laws and legislation are observed.

December 2005