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Covitol® F350 GFP

Chemical names of active ingredient
Vitamin E
D-alpha-tocopherol
2R,4'R,8'R-alpha-tocopherol
5,7,8-trimethyltocol
RRR-alpha-tocopherol

CAS-No.	59-02-9
EINECS-No.	200-412-2

PRD-No.
30539111*

*The product is kosher

Articles**

50211482	15 kg fibre drum (with PE liner)

**Packed under inert gas

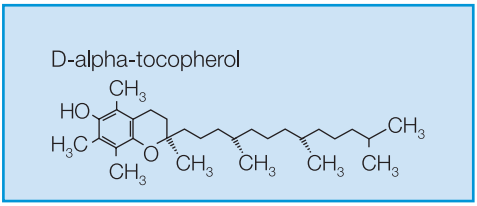
Country of origin
USA

Units
Biological activity and equivalencies:
1 mg D-alpha-tocopherol = 1.49 IU
= 1.0 mg alpha-TE

Composition
Ingredients in descending order of weight:
Modified food starch, D-alpha-tocopherol*, natural mixed tocopherols*, soybean oil, and silicon dioxide.

*mainly derived from soybeans

Due to the natural raw materials and the manufacturing process applied, small amounts of other vegetable oil constituents may be present.



$C_{29}H_{50}O_2$ Molar mass 430.7 g/mol

Description
Covitol® F350 GFP is a cream to tan colored powder with a bland to mild taste and odor. It contains natural source D-alpha-tocopherol with natural mixed tocopherols, which are obtained from edible vegetable oils produced by suitable physical and chemical means.
The major active substance in Covitol® F350 GFP is D-alpha-tocopherol. The vitamin E activity of D-beta-, D-gamma-, and D-delta-tocopherol is lower than of D-alpha-tocopherol.
Covitol® F350 GFP is made by spray drying the active ingredient on a carrier of modified food starch followed by surface treatment with silicon dioxide for proper flow performance.

Solubility
Dispersible in cold water. Insoluble in vegetable oils and in organic solvents.

Specification

Assay	Min. 235 – 336 mg/g D-alpha-tocopherol (=350 – 500 IU of Vitamin E) Min. 59 – 180 mg/g non-alpha-tocopherols

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

Monographs

Covitol® F350 GFP meets the monograph requirements of the current USP (Vitamin E preparation) and FCC (RRR-alpha-tocopherol concentrate, mixed, High-alpha-Type).

Regulations

The active ingredient D-alpha-tocopherol (and mixed tocopherols) is derived from genetically modified vegetable and is thus subject to labeling under EU Regulations (EC) 1829/2003 and 1830/2003 (the product is PCR negative).
D-alpha-tocopherol, the active ingredient in Covitol® F350 GFP is approved for the use as an antioxidant and as a Vitamin E source in most countries. However, specific regulations on the product in the respective countries and for its intended use have to be observed.

Bulk density

0.25 – 0.50 g/ml

Stability, Storage and Handling

Stored in its unopened original packaging at max. 30 °C (i.e. max. 85 °F), the product is stable for at least 18 months. At max. 50 °C the product is stable for at least 6 months.
The product should be stored tightly sealed in a cool and dry place, protected from heat, light and oxygen.
Unstable when exposed to oxygen and light, particularly in the presence of oxidizing agents or in alkaline media.
Once opened, it is recommended to flush the packaging with an inert gas and/or to use the remaining content as quickly as possible.

Applications

Dietary supplements and Food products:
Covitol® F350 GFP is recommended for multivitamin tablets or capsules, chewable tablets and drink mixes. The product has minimal interactions with other ingredients commonly used in multivitamins, i.e. other vitamins, minerals and excipients. Abrasive excipients and overblending should be avoided and compression pressure should be minimized. An overage of at least 10% is recommended.

Note

Covitol® F350 GFP must be handled in accordance with the Safety Data Sheet.