

Covitol® 1210

Chemical names of active ingredient

Vitamin E succinate
D-alpha-tocopheryl succinate
D-alpha-tocopheryl hydrogen succinate
D-alpha-tocopheryl acid succinate
2R,4'R,8'R-alpha-tocopheryl succinate
RRR-alpha-tocopheryl succinate

CAS-No. 4345-03-3

EINECS-No. 224-403-8

PRD-No.
30528277*

*The product is kosher

Articles

50579941 25 kg fibre drum (with PE liner)

Country of origin

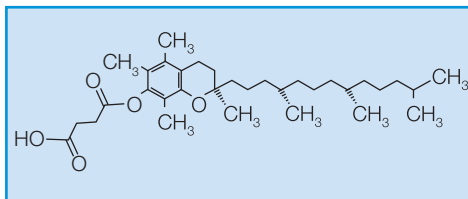
Japan

Units

Biological activity and equivalencies:
1 mg D-alpha-tocopheryl succinate = 1.21 IU
= 0.81 mg alpha-TE

Description

Covitol® 1210 is a white to off-white crystalline powder with little or no odor/taste. It is derived from natural sources, i.e. from edible vegetable oils and is produced by suitable physical and chemical means.
The active substance in Covitol® 1210 is D-alpha-tocopheryl hydrogen succinate. It is also named RRR-alpha-tocopheryl succinate, a succinate ester of natural source Vitamin E, and as such stable to oxidation.



C₃₃H₅₄O₅

Molar mass 530.79 g/mol

Composition

Ingredients in descending order of weight:
D-alpha-tocopheryl hydrogen succinate*.

*mainly derived from soybeans

This high purity vitamin E product is virtually free of any other vegetable oil constituents.

Solubility

Insoluble in water, poorly soluble in vegetable oils, soluble in organic solvents.

Specification

Assay	Min. 960 mg/g D-alpha-tocopheryl succinate (= 1162 IU of Vitamin E = 778 alpha-TE per gram)
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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® 1210 meets the monograph requirements of the current Ph.Eur. (RRR-alpha-Tocopheryl Hydrogen Succinate), USP (Vitamin E) and FCC (RRR-alpha-Tocopheryl Acid Succinate).

Regulations

Covitol® 1210 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-tocopheryl hydrogen succinate, the active ingredient in Covitol® 1210 is approved for the use 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

0.45 – 0.60 g/ml

Stability, Storage and Handling

Stored in its unopened original packaging at max. 30 °C (i.e. max. 85 °F) Covitol® 1210 is stable for at least 48 months. At max. 50 °C the product is stable for at least 12 months.

Covitol® 1210 is stable to acid; unstable to alkali and oxidizing agents.

The esterified form of vitamin E is rather stable to light and oxygen, however, exposure should be limited.

During long-term storage the product should preferably be stored tightly sealed in a cool and dry place, protected from heat, light and oxygen.

Applications

Dietary supplements and Food products:

Covitol® 1210 is intended for use in solid dietary supplement preparations (e.g. multivitamin tablets) or in food products where a high concentration of Vitamin E is to be formulated. Covitol® 1210 has minimal interaction with other ingredient commonly used in such products, i.e. other vitamins, minerals and excipients.

Do not overblend Covitol® 1210. It should be blended in for not more than 5 minutes, immediately before tableting. Minimize stand time after blending to ensure ease of tableting. Protect Covitol® 1210 from heat, since succinates have a low melting point and tend to soften at temperatures above room temperature. As equipment heats up and D-alpha-tocopheryl hydrogen succinate softens “sticking and picking” may occur. To minimize “sticking and picking”, minimize compression pressure, lower equipment speed and clean equipment frequently.

Note

Covitol® 1210 must be handled in accordance with the Safety Data Sheet.

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