

Dry Vitamin AD₂-Acetate 500/50

Chemical name

Retinyl acetate and ergocalciferol

CAS No. 127-47-9 and 50-14-6

EINECS No. 204-844-2 and 200-014-9

Product number

10303065 60 mesh

PRD number

30041006

Description

Free-flowing, light yellow powder, consisting of spherical particles.

Composition

The powder particles contain vitamin A-Acetate in oil and vitamin D₂ in droplets of 1-2 µm embedded in a matrix of gelatin and sucrose, coated with modified starch. The product contains t-butylhydroxytoluene (BHT, E 321) as antioxidant and sodium aluminium silicate (E 554) as an anti-caking agent.

Solubility

Dispersible in warm water (35-40°C), to form a milky emulsion.

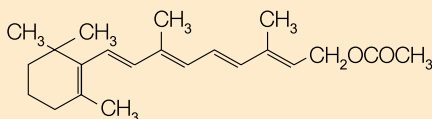
Specification

Assay: Vit. A: min. 500,000 IU of vitamin A
(= 150,000 RE) per gram

Vit. D₂: min. 50,000 IU of vitamin D₂
per gram

Loss on drying: ≤ 5% (4 hours at 105°C)

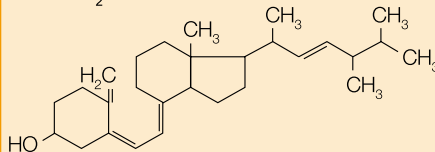
Vitamin A acetate



C₂₂H₃₂O₂

Molar mass 328.5 g/mol

Vitamin D₂



C₂₈H₄₄O

Molar mass 396.7 g/mol

Monographs

The included active ingredient vitamin A complies with the current "Vitamin A concentrate (oily form), synthetic" Ph.Eur. and "Vitamin A" USP monographs.

The included active ingredient vitamin D₂ complies with the current "Ergocalciferol" Ph.Eur. and "Ergocalciferol" USP monographs.

Particle-size distribution

60 mesh:

100% smaller than 600 µm (30 mesh USP)
min. 90% smaller than 300 µm (50 mesh USP)
max. 10% smaller than 150 µm (100 mesh USP)

Bulk density

Approx. 0.6 g/ml

Stabilization/Stability

The product is stabilized with BHT (E 321). Its stability is excellent even in the presence of minerals. The dry powder has a high mechanical integrity and little or none of the oily vitamins is expressed during tableting, resulting in good stability of the tablets.

Stored in the original packaging in a cool (8-15°C), dry place, the product is stable for at least 24 months.

Standard packaging

25 kg.

Please see appendix I for further information.

Storage

The product should be stored in the original packaging in a cool (8-15°C), dry, dark place.

Applications*Dietary supplement:*

The product has been specially developed for the production of high-dosage vitamin AD₂ tablets by direct compression. Its flow and tableting properties make it equally suitable for multivitamin/mineral tablets and for hard gelatin capsules.

Note

Dry Vitamin AD₂-Acetate 500/50 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.

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