

# Lutavit® A 500 Plus

Vitamin A acetate powder (beadlets)

## Chemical name(s) of active ingredient

Vitamin A acetate (retinyl acetate)

## PRD

30040362

## Article

51283583                      25 kg plastic bag

## Specification

Content                      min. 500,000 I.U./g of  
vitamin A (HPLC)

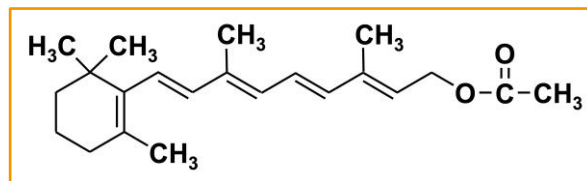
## Other chemical and physical data

Loss on drying	max. 5%
Formulation	powder
Particle size	min. 97% < 0.63 mm
Bulk density	about 0.6 g/cm <sup>3</sup>
Composition	vitamin A is incorporated in finely dispersed form into a matrix of gelatin and carbohydrates and stabilized with antioxidants

## Stability and storage

Lutavit® A 500 Plus, Lutavit® A 1000 NXT, as well as Lutavit® A/D3 1000/200 NXT and Lutavit® A 500 S NXT are stabilized (coated) vitamin products. Lutavit® A 500 Plus, Lutavit® A 1000 NXT, and Lutavit® A/D3 1000/200 NXT are more stable to external influences. Substantially stable during thermal processing, depending on temperature. The following factors provide a good stability:

- Esterification of retinol with acetic acid to the more stable retinyl acetate
- Addition of a combination of antioxidants and other stabilizing agents
- Incorporation of the vitamin A droplets in microdispersed form in a gelatin-carbohydrate matrix by means of a special spray and formulation technique



**C<sub>22</sub>H<sub>32</sub>O<sub>2</sub>**

**328.5 g/mol**

For good flowability and to avoid lump formation, the dry powder particles are additionally treated with an anti-caking agent. The stability of vitamin A in mixed and mineral feeds or premixes is slightly lower than in the commercial product. In mixtures of active mineral ingredients vitamin A stability can be impaired by trace element content, which is often high. Above all, hydrates of trace elements contribute to reduced vitamin A stability, which can be further affected by a high moisture content in the total mixture. Even technological processes in the formulation of mixed feeds such as pelleting and extrusion have a negative influence on the stability of vitamin A.

The product can be kept for at least 15 months in the unopened, original packaging.

## Handling

Carefully close the packaging after removing partial amounts.

## Application

Lutavit® A 500 Plus is suitable for several types of vitamin blends, premixes, mineral, and mixed feeds. The flowability and mixing behavior of the product is excellent and ensures homogeneous mixing in all types of feed.

## Dosage recommendations

Please refer to BASF's Technical Handbook for Animal Nutrition, chapter "Vitamins - Vitamin A".

## Note

Vitamin A occurs in a biologically highly active form. The product should be processed with all due care and attention to occupational hygiene following the instructions in the safety data sheet.

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