

## SPECIFICATION

**Product name** Vitamin A 325.000 I.U./g SD CWS/S Food Grade  
**Product code** SP01-07  
**Production unit** Xinchang NHU Vitamins

### Description

**Ingredients** The product consists of Vitamin A acetate Ph.Eur./USP/FCC, modified starch, maltodextrin, sucrose, corn oil, sodium ascorbate and dl-alpha-tocopherol as antioxidants, silicon dioxide as anti-caking agent

**Synonym** Retinyl acetate, all-(E)-3,7-dimethyl-9-2,6,6-trimethyl-1-cyclohex-1-enyl)2,4,6,8-nona tetraene-1-yl Acetate

**Formula**  $C_{22}H_{32}O_2$

**Molecular weight** 328,49 g/mol

**CAS No** 127-47-9

### Properties

**Shelf life** 24 months after production date in unopened original packaging

**Aspect** light yellow, free flowing powder

**Identification** Thin-Layer chromatography (EP)  
A: Colour reaction with antimony III (USP)  
B: Thin Layer chromatography (USP)

**Assay** Min. 325.000 IU/g

**Loss on drying** Max. 5,0 %

**Solubility** Dispersible in cool water forming a milky emulsion

**Absorbance ratio** Min. 0,85

**Sieve analysis** 100 % through sieve no. 40 (US)  
Min. 90 % through sieve no. 60 (US)  
Min. 45 % through sieve no. 100 (US)

**Heavy metals** max. 10 mg/kg

**Arsenic (As)** max. 1 mg/kg

**Lead (Pb)** max. 0,5 mg/kg

**Cadmium (Cd)** max. 0,5 mg/kg

**Mercury (Hg)** max. 0,1 mg/kg

### Microbiological specs

Total plate count	≤ 1000 CFU/g
Mould and Yeast	≤ 100 CFU/g
Coliforms	< 0,3 MPN/g
E. coli	negative in 10 g
Salmonella	negative in 25 g
Staph. aureus	negative in 25 g
Pseudomonas	negative in 1 g
Bacillus cereus	negative in 1 g

### Handling

Stability The biological activity of vitamin A is reduced by oxidative degradation.

### Storage

Sensitive to moisture, oxygen, heat and light  
Store in a cool (below 15 °C) and dry place. Once opened, use contents quickly.

Classified as **hazardous substance** as per EU regulation.

## NHU EUROPE GmbH