



SPECIFICATION

Product name	Vitamin A 250.000 I.U./g Palmitate SD CWS/S
Product code	SP02-06
Production unit	Xinchang NHU Vitamins
Description	
Ingredients	The product consists of Vitamin A palmitate (EP), maltodextrin (FCC), modified starch (E1450), vegetable oil (FCC), sodium ascorbate (E301), Butylhydroxytoluol (E321) as an antioxidant, silicon dioxide (E551) as an anti-caking agent
Synonym	Retinyl palmitate all-(E)-3,7-dimethyl-9-(2,6,6-trimethyl-1-cyclohexen-1-enyl)nona-2,4,6,8-tetraen-1-yl-palmitate
Formula	$C_{36}H_{60}O_2$
Molecular weight	524,9 g/mol
CAS No	79-81-2
Properties	
Shelf life	18 months after production date, in unopened original packaging
Aspect	Light yellow, free flowing powder
Assay (LC)	≥ 250.000 I.U./g
Loss on drying	≤ 5,0 %
Solubility	Dispersible in cool water forming a milky emulsion
Sieve analysis	100 % through sieve no. 40 (US) ≥ 90 % through sieve no. 60 (US) ≥ 45 % through sieve no. 100 (US)
Identification	Thin-Layer chromatography (EP) A: Colour reaction with antimony III (USP) B: Thin-Layer chromatography (USP)
Absorbance ratio	≥ 0,85 (USP)

Heavy metals

Arsenic (As)	≤ 1 mg/kg
Lead (Pb)	≤ 0,5 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg

BHT 0,1 - 1,0 %

Microbiological specs

Total plate count	< 1000 CFU/g
Mould and Yeast	< 100 CFU/g
Coliforms	< 10 CFU/g
E. coli	negative in 10 g
Salmonella	negative in 25 g
Staph. aureus	negative in 25 g

Handling

Usage For food and cosmetics applications

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.

Transport See latest safety data sheet

The included active ingredient Vitamin A complies with current EP, USP and FCC.

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

NHU Life Science GmbH