

SPECIFICATION

Product name	Vitamin A 325.000 I.U./g CWS/A
Product code	SP01-08
Production unit	Xinchang NHU Vitamins
Description	
Ingredients	The product consists of Vitamin A acetate EP./USP/FCC, gum Arabic (E414), sucrose (FCC), corn starch (FCC), sodium ascorbate (E301) and dl-alpha tocopherol (E307) as antioxidant, silicon dioxide (E551) 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 microcapsule.
Assay (GC)	≥ 325.000 I.U./g Vitamin A acetate
Loss on drying	≤ 5,0 %
Solubility	dispersible in cool water forming a milky emulsion
Sieve analysis	100 % through sieve no. 20 (US) ≥ 90 % through sieve no. 40 (US) ≤ 15 % 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
Heavy metals	
Arsenic (As)	≤ 1,0 mg/kg
Lead (Pb)	≤ 0,5 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg



Version:
10.00.0001
Date: 12.03.2026

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 applications
1 I.U. = 0.300 µg vitamin A alcohol = 0.344 µg vitamin A acetate

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

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

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

NHU Life Science GmbH

