

SPECIFICATION

Product name Vitamin A 325.000 I.U./g CWS/A Food grade
Product code SP01-08
Production unit Xinchang NHU Vitamins

Description

Ingredients The product consists of Vitamin A acetate Ph.Eur./USP/FCC, gum Arabic, sucrose, corn starch, sodium ascorbate and dl- α -tocopherol as antioxidant, 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 microcapsule.

Assay (GC) Min. 325.000 I.U./g Vitamin A acetate

Loss on drying Max. 5,0 %

Solubility dispersible in cool water forming a milky emulsion

Sieve analysis 100 % through sieve no. 20 (US)
Min. 90 % through sieve no. 40 (US)
Max. 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 min. 0,85

Heavy metals Max. 10 mg/kg
Arsenic (As) Max. 1,0 mg/kg
Lead (Pb) Max. 0,5 mg/kg
Cadmium (Cd) Max. 0,5 mg/kg

Microbiological specs

Total plate count	< 1000 CFU/g
Mould and Yeast	< 100 CFU/g
Coliforms	< 0,3 MPN/g
Salmonella	Negative in 25 g

Handling

Stability	The biological activity of vitamin A is reduced by oxidative degradation. Material is sensitive to moisture, oxygen, heat and light
Usage	Used for fortification of food, beverage, etc. 1 I.U. = 0.300 µg vitamin A alcohol = 0.344 µg vitamin A acetate
Storage	It is recommended to store in a cool (below 15°C) and dry place

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

NHU EUROPE GmbH