

## SPECIFICATION

### Vitamin C DC 97 % Food grade (EP 9.8/USP42 (Ascorbic acid))

#### Production unit

Heilongjiang NHU Biotechnology

#### Description

Ingredients

Ascorbic acid, Hydroxypropylmethylcellulose

Synonym

Vitamin C, Ascorbic acid, L-Ascorbic acid

Formula

$C_6H_8O_6$

Product code

SPCK01

CAS No

50-81-7

#### Properties

Shelf life

24 months

Aspect

White or yellowish fine small particles

Assay (GC) (Ascorbic acid)

96 – 98 %

Loss on drying

< 0,2 %

Particle size distribution

> 98 % through mesh #20

< 35 % through mesh #100

< 15 % through mesh #200

Optical rotation

+ 20,5 to + 21,5 (USP)

Identification

EP

First identification: B, C

Second identification: A, C, D

A: Ultraviolet and visible absorption spectrophotometry

B: Infrared absorption spectrophotometry

C: pH meets the requirements

D: A grey precipitate is formed

USP

A: Infrared absorption

B: 20 mg/ml reduces alk. cupric tartrate test solution

Bulk Density

0,7 g/ml – 0,9 g/ml

Sulphated ash

< 0,1 % (EP)

Impurity E

max. 0,2 % (EP)

Residual solvents

meets requirements

**Heavy metals**

Iron	< 2 mg/kg (EP)
Copper	< 5 mg/kg (EP)
Arsenic (As)	< 1 mg/kg
Lead (Pb)	< 0,5 mg/kg
Mercury (Hg)	< 0,1 mg/kg
Cadmium (Cd)	< 0,5 mg/kg

**Microbiological specs**

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

**Handling**

Usage for food and cosmetic industry

Storage preserve in tight, light-resistant containers

**NHU EUROPE GmbH**