

SPECIFICATION

Vitamin C 99 % (Ascorbic acid E300)

Production unit

Heilongjiang NHU Biotechnologies

Description

Ingredients	Ascorbic acid
Synonym	Vitamin C; L-Ascorbic acid, 3-Oxo-L-gulofuranolactone
Formula	C ₆ H ₈ O ₆
Molecular weight	176.13
Product code	SPVC05
CAS No	50-81-7

Properties

Shelf life	36 months
Aspect	White or almost white crystals or crystalline powder
Assay (GC)	99,0 – 100,5 %
Melting point	190 – 192 °C
Loss on drying	≤ 0,4 %
pH (5 % water solution)	2,1 – 2,6
pH (2 % water solution)	2,4 – 2,8
Colour of solution	≤ BY ₇
Clarity of solution	clear
Optical rotation	+20,5 - +21,5 °
Sulphated ash	≤ 0,1 %

Particle size

≤ 20 % ≥ 40 mesh
≥ 50 % between 40 to 80 mesh

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

Heavy metals	≤ 10 mg/kg
Iron	≤ 2,0 mg/kg
Copper	≤ 5,0 mg/kg
Arsenic (As)	≤ 1,0 mg/kg
Lead (Pb)	≤ 0,5 mg/kg
Mercury (Hg)	≤ 0,1 mg/kg
Cadmium (Cd)	≤ 0,5 mg/kg

Impurities

Impurity E (Oxalic acid)	≤ 0,2 %
Impurity C, D	≤ 0,15 %
Unspecified impurities (each)	≤ 0,1 %
Sum of impurities other than C, D	≤ 0,2 %
Residual solvents (as Methanol)	≤ 200 mg/kg

Microbiological specs

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

Handling

Usage for cosmetic and food industry
product can also be used as feed additive (3a300), dosage
in feed: as per latest version of European feedstuff law

Storage in unopened tight, light-resistant containers

Product complies to EP9.8/USP42/FCC11.

NHU EUROPE GmbH

Ascorbic acid/SPVC05/üa u fgg:180722/av

Bank account EUR
Deutsche Bank AG
DE 53 2407 0075 0019 5222 00
DEUTDE2H240

Bank account USD
Deutsche Bank AG
DE 53 2407 0075 0019 5222 0005
DEUTDE2H240

NHU EUROPE GMBH
VAT Nr: DE 300 149 623 | Company license Nr: HRB 205610
District Court: Lüneburg/Germany
General Manager: Thomas Hoops