

SPECIFICATION

Vitamin C 99 % 80 mesh (Ascorbic acid E300)

Production unit

Heilongjiang NHU Biotechnology

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	SPVC07
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 %
Colour of solution	≤ BY ₇
Clarity of solution	clear
Optical rotation	+20,5 - +21,5 °
pH (5 % water solution)	2,1 – 2,6
pH (2 % water solution)	2,4 – 2,8
Sulphated ash	≤ 0,1 %

Particle size distribution

100 % through 60 mesh
> 70 % through 80 mesh
> 70 % through 100 mesh
< 15 % through 325 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

Storage in unopened tight, light-resistant containers

Product complies to EP9.8/USP42/FCC11.

NHU EUROPE GmbH

Vitamin C 99 % 80 mesh/SPVC07/erstellt u fgg:020123/av

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