

SPECIFICATION

Product name	Vitamin C 99 % 80 mesh
Product code	SPVC07
Production unit	Heilongjiang NHU Biotechnology
Description	
Ingredients	Ascorbic acid (E300)
Synonym	Vitamin C; L-Ascorbic acid, 3-Oxo-L-gulofuranolactone
Formula	C ₆ H ₈ O ₆
Molecular weight	176.13
CAS No	50-81-7
Properties	
Shelf life	48 months
Aspect	White or almost white crystals or crystalline powder
Assay (GC)	99,0 – 100,5 %
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
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

- ≥ 95 % through 60 mesh
- ≥ 70 % through 80 mesh
- ≥ 70 % through 100 mesh
- ≤ 15 % through 325 mesh

Heavy metals

- 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) ≤ 0,20 %
- Impurity C, D ≤ 0,15 %
- Unspecified impurities (each) ≤ 0,10 %
- Sum of impurities other than C, D ≤ 0,20 %

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 food and cosmetic applications

Storage Preserve in tight, light-resistant original containers.

Transport See latest safety data sheet

The product complies with EU 231/2012 from 9th of March 2012, EP, USP and FCC.

NHU Life Science GmbH