

## SPECIFICATION

<b>Product name</b>	<b>Vitamin C 99 % 80 mesh (Ascorbic acid E300)</b>
<b>Product code</b>	<b>SPVC07</b>
<b>Production unit</b>	<b>Heilongjiang NHU Biotechnology</b>
<b>Description</b>	
Ingredients	Ascorbic acid
Synonym	Vitamin C; L-Ascorbic acid, 3-Oxo-L-gulofuranolactone
Formula	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
Molecular weight	176.13
CAS No	50-81-7
<b>Properties</b>	
Shelf life	48 months
Aspect	White or almost white crystals or crystalline powder
Assay (GC)	99,0 – 100,5 %
<b>Identification</b>	
<b>EP</b>	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
<b>USP</b>	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 <sub>7</sub>
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 %
<b>Particle size distribution</b>	> 95 % through 60 mesh > 70 % through 80 mesh > 70 % through 100 mesh < 15 % through 325 mesh

<b>Heavy metals</b>	≤ 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 EP/USP/FCC.

## NHU EUROPE GmbH