

SPECIFICATION

Calcium ascorbate E302 (EP/USP)

Production unit

Heilongjiang NHU Biotechnology co., Ltd.

Description

Ingredients
Synonym

Calcium ascorbate dihydrate
Calcium diascorbate, Calcium di[R]-2-[(S)-1,2-dihydroxyethyl]-4-hydroxy-5-oxo-2H-furan-3-olate] dihydrate

Formula
Molecular weight
Product code
CAS No.

$C_{12}H_{14}CaO_{12} \cdot 2 H_2O$
426,34
SPCG01
5743-28-2

Properties

Shelf life
Aspect
Assay ($C_{12}H_{14}CaO_{12}$) (EP)
Assay (USP) Titration
Solubility
Clarity of solution
Colour of solution
Specific Optical rotation
Loss on drying (EP/USP)
pH value
Fluoride

24 months in unopened original container
White or slightly yellowish, crystalline powder
99 – 100,5 %
98 – 101 %
freely soluble in water, practically insoluble in ethanol
clear
< Y_6
+ 95° and + 97° (5 % w/v aqueous solution)
max. 0,1 %
6,8 to 7,4 (10 % aqueous solution)
max. 10 mg/kg

Identification

EP

A: Specific optical rotation
B: Infrared absorption spectrophotometry
E: Substance gives reaction of calcium

USP

A: Solution meets requirements
B: 100 mg/ml solution decolorizes a 100 mg/mL solution of dichlorophenol–indophenol
C: Infrared absorption spectrophotometry

Heavy metals

Copper (Cu)	max. 5 mg/kg
Iron (Fe)	max. 2 mg/kg
Arsenic (As)	max. 1 mg/kg
Lead (Pb)	max. 0,5 mg/kg
Mercury (Hg)	max. 0,1 mg/kg
Cadmium (Cd)	max. 0,5 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
Staph. aureus	negative in 25 g

Residual solvents max. 200 mg/kg (Methanol)

Handling

Usage	for food and cosmetic industry
Storage	in tight, light resistant original containers
Transport instructions	please see our latest MSDS.

NHU EUROPE GmbH

Calcium ascorbate/SPCG01/üaufgg: 220223/av

Bank account EUR
Deutsche Bank AG
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DEUTDE2H240

Bank account USD
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