

Certificate of

Product Name:	Ascorbic Acid (Vitamin C)
Molecular Weight:	176
CAS#	50-81-7
Molecular Formula:	C6H8O6
Starting Material:	Corn Steep Liquor, Yeast, Glucose
Extraction Solvent(s):	Methanol
Country of Origin:	China
Batch Number:	Varies
Manufacture Date:	Varies
Retest Date:	Varies

Test Results Obtained by PureBulk

ITEMS	SPECIFICATIONS	RESULTS
Vitamin C (Ascorbic Acid) (HPLC)	≥99.0%	99.74%
Loss on Drying (USP<731>)	≤0.4%	0.033%
Aerobic Plate Count	≤1000 cfu/g	<20 cfu/g
Coliforms	≤100 cfu/g	<20 cfu/g
<i>E. Coli</i>	Absence/g	Absent
<i>Staph aureus</i>	Negative	Absent
Yeast & Mold	≤100 cfu/g	<20 cfu/g
<i>Salmonella</i>	Negative	Absent
<i>Pseudo. aeruginosa</i>	Negative	Absent
Conclusion (PureBulk):	This product conforms to standards	

The following information is an indirect translation of information provided from the Manufacturer's Certificate of Analysis, and should not be used solely as an instrument for strict quality control.

ITEMS	SPECIFICATIONS	RESULTS
Appearance	White or almost white, crystalline powder or colorless crystals	White crystalline powder
Identification	Corresponds	Conforms
Melting Point	189°C-193°C	190°C
pH (5% W/V)	2.1-2.6	2.29
pH (2% W/V)	2.4-2.8	2.58
Specific Optical Rotation	+20.5°-+21.5°	+20.9°
Appearance of Solution	Solution S is clear and not more intensely cleared than reference solution BY7	Up to Standard
Heavy Metals	≤10 ppm	<10 ppm
Copper	≤5 ppm	0.14 ppm
Iron (Fe)	≤2 ppm	0.06 ppm
Mercury (Hg)	≤1 ppm	0.01 ppm
Arsenic (As)	≤3 ppm	<3 ppm
Lead (Pb)	≤2 ppm	<0.01 ppm
Impurity E (Oxalic Acid)	≤0.2%	<0.2%
Sulphated Ash (Residue on Ignition)	≤0.1%	0.03%
Impurity C	≤0.15%	<0.01%
Impurity D	≤0.15%	<0.01%
Unspecified Impurities	≤0.10%	ND
Total Impurities	≤0.2%	ND
Methanol	≤3000 ppm	89 ppm
40/40 mesh	-	97.6%
80/80 mesh	-	70.6%
100/100 mesh	-	57.5%
Solubility	Soluble in water	Conforms
Conclusion (Manufacturer):	This product conforms to BP2014/EP9/USP41/E300/FCC10 standards	

Additional Information: Melamine Free || Gluten-Free || No Pesticides || BSE/TSE Free || GRAS - Yes || Vegetarian/Vegan || Sewer sludge used - No

Sterilization Method: Non-Irradiated/Non-EtO

GMO Statement Non-GMO

Storage Conditions: **Keep in sealed container under 25°C.**
Keep away from strong light, heat and moisture.

Purebulk.Inc verifies that the information contained herein is true and correct to the best of our knowledge.

Verified By: Candace Gibson / Ann Foote / Nicole Rammage

(This document was produced electronically and is valid without signature.)