



Specification

L-Ascorbic Acid USP

Catalog Number:	AA1002
CAS Number:	50-81-7
Synonym(s):	L-Threoascorbic acid, Antiscorbutic factor, Vitamin C
Molecular Formula:	C ₆ H ₈ O ₆
Molecular Weight:	176.12
Storage:	15°C – 30°C
Retest Period:	Three years from date of manufacture.

Test	Specification
Appearance	White to off-white crystalline powder
Identification	Positive
Assay (on dried basis)	99.0% - 100.0%
Specific rotation	+20.50° - +21.50°
Melting point	190°C - 192°C
pH (2% in water)	2.4 – 2.8
pH (5% in water)	2.1 – 2.6
Color and clarity of solution	≤ BY7, clear solution
Heavy metal	≤ 10ppm
Lead	≤ 2ppm
Arsenic	≤ 3ppm
Cadmium	≤ 1ppm
Copper	≤ 5ppm
Iron	≤ 2ppm
Mercury	≤ 0.1ppm
Zinc	≤ 25ppm
Oxalic acid	≤ 0.20%
Residual solvents	Ethanol ≤ 3,000 ppm Methanol ≤ 3,000 ppm
Related substances	Impurity C ≤ 0.15% Impurity D ≤ 0.15% Unspecified impurity ≤ 0.10% Total impurity ≤ 0.20%
Loss on drying (%)	≤ 0.40%
Residue on ignition	≤ 0.10%
Total Plate Count	≤ 1,000 CFU/G
Yeast & Mold	≤ 100 CFU/G
<i>E. coli</i>	Negative
<i>Staph. aureus</i>	Negative
<i>Salmonella</i>	Negative
This product meets USP39 specifications.	

Approved:

Date: August 27, 2015



Gojira Fine Chemicals, LLC

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