



Certificate of Analysis

L-Ascorbic Acid USP

Catalog Number: AA1002
Lot Number: 0301802
CAS Number: 50-81-7
Synonym(s): L-Threoascorbic acid, Antiscorbutic factor, Vitamin C
Molecular Formula: $C_6H_8O_6$
Molecular Weight: 176.12
Storage: 15°C – 30°C
Date of Manufacture: October 25, 2017
Retest Date: October 24, 2020

Test	Specification	Result
Appearance	White to off-white crystalline powder	Conforms
Identification ¹		
FTIR	To match reference spectra	Conforms
Positive Reaction	To meet requirements	Conforms
Assay (Dried Basis) ^{1,2}	99.0% - 100.5%	99.8%
Specific Rotation ^{1,2}	+20.50° - +21.50°	+21.0°
Melting Point	190°C - 192°C	190°C
pH (2% in dH ₂ O)	2.4 – 2.8	Conforms
pH (5% in dH ₂ O)	2.1 – 2.6	2.3
Color and Clarity of Solution ²	≤ BY7, clear solution	< BY7, Conforms
Heavy Metal ²	≤ 10ppm	< 10ppm
Copper ²	≤ 5ppm	< 5ppm
Iron ²	≤ 2ppm	< 2ppm
Residual Solvents ¹	To meet requirements	Conforms
Impurity E ²	≤ 0.2%	< 0.2%
Residue on Ignition ^{1,2}	≤ 0.10%	0.02%
¹ This lot meets specifications for USP40.		
² This lot meets specifications for BP2017.		

Approved by:

Date: March 2, 2018

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