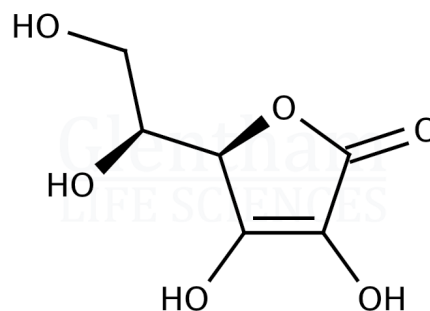


Certificate of Analysis

Product Name L-(+)-Ascorbic acid
Glenthams Code GV5017
CAS Number 50-81-7
EINECS 200-066-2
MDL Number MFCD00064328
PubChem SID 310267041
Batch Number 560COX

Molecular Weight 176.12
Molecular Formula $C_6H_8O_6$
Storage Temp. +20°C



Property	Specification	Batch 560COX
Physical Description	White crystalline powder	White crystalline powder
Melting Point	190 - 192 °C	190.8 °C
pH	2.2 - 2.5	2.37
Heavy Metals	≤ 0.0010%	0.0005%
Iron	≥ 2ppm	Conforms
Copper (Cu)	≥ 5ppm	Conforms
Oxalic Acid	≤ 0.2%	Conforms
Sulphated Ash	≤ 0.1%	Conforms
Specific Optical Rotation ($[\alpha]_{20/D}$)	+20.5 - +21.5 °	21.1 °
Residual Solvents	≤ 3000ppm	Conforms
Related Substances	Impurity C ≤ 0.15%	Conforms
	Impurity D ≤ 0.15%	Conforms
	Impurity E ≤ 0.2%	Conforms
Assay	99.0 - 100.5 %	99.7%

Specification Version v1.1
Manufacture Date 2021-10-01
Re-Test Date 2030-02-21

Glenthams Life Sciences confirm that the above referenced product conformed to the information displayed in this document on the quality release date. Please check www.glenthams.com or contact us using the details above for the current version of this document.

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