

## Certificate of Analysis

Date of Testing: 2022-01-21 10:25:12  
Date of Next Testing: 2026-01-20 10:25:12  
Product Name: **Ascorbic acid**  
CAS Number: 50-81-7  
Specifications & Purity: 99.99% metals basis  
Lot #: A2219213  
SKU #: **A103534**  
**Analysis:** **055585**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Total Metallic Impuritie	0-100 (ppm)	9.98 ppm
Purity(Iodometric Titration)	98.5-101.5 (%)	99.80 %
Specific Rotation [a] <sub>20</sub> /D(c=10 in H <sub>2</sub> O)	20.5-21.5 (°)	20.90°
Purity(Based On Trace Metals Analysis)	99.99-100 (%)	100.00 %
Appearance (A103534)	white to off-white powder, crystals and/or chunks	white to off-white powder, crystals and/or chunks
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in H <sub>2</sub> O , Colorless to Faint Yellow,Clear ,50 mg/ml	pass	Pass



John Su  
QA & QC Manager