



**SISCO  
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## Certificate of Analysis

<b>Product</b>	<b>14116 - L-Ascorbic Acid for molecular biology, 99.7% - [50-81-7]</b>
<b>Batch No</b>	<b>1047221</b>
<b>Analysis Date</b>	05-Feb-2023
<b>Date of Manufacture</b>	February 2023
<b>Expiry Date/Re-Test Date</b>	February 2028
<b>Molecular Formula</b>	C <sub>6</sub> H <sub>8</sub> O <sub>6</sub>
<b>Molecular Weight</b>	176.13

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% aq. solution	Clear	Clear
Solubility (Colour) 10% aq. solution	Colourless	Colourless
Assay (Iodometric)	min. 99.7%	99.8%
Melting Point	190 - 192°C	190.1°C
pH (5% aq. solution)	2.2 - 2.5	2.3
Specific rotation [α]	+20.5° to +21.5° (C=10, water)	+21.1°
Loss on drying	max. 0.1%	0.02%
Sulphated Ash	max. 0.1%	0.03%
Chloride (Cl)	max. 0.005%	Passes
Sulphate (SO <sub>4</sub> )	max. 0.002%	Passes
Iron (Fe)	max. 0.0002%	Passes
Heavy Metals (Pb)	max. 0.0005%	Passes
DNase, RNase, Protease	Not detected	Not detected

FRM/82/11/4/14116 Rev No. 2 Date 03/07/2022

Prepared by Komal

In compliance with the standard specifications of SRL

Plant Site 2 : H-4, MIDC, Taloja – 410 208, Maharashtra, India

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