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Certificate of Analysis

Product	14116 - L-Ascorbic Acid for molecular biology, 99.7% - [50-81-7]
Batch No	3129445
Analysis Date	20-Jan-2024
Date of Manufacture	January 2024
Expiry Date/Re-Test Date	January 2029
Molecular Formula	C ₆ H ₈ O ₆
Molecular Weight	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%	99.9%
Melting Point	190 - 192°C	192°C
pH (5% aq. solution)	2.2 - 2.5	2.3
Specific rotation [α]	+20.5° to +21.5° (C=10, water)	+20.555°
Loss on drying	max. 0.1%	0.01%
Sulphated Ash	max. 0.1%	0.05%
Chloride (Cl)	max. 0.005%	Passes
Sulphate (SO ₄)	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 **ThakurRohit**

In compliance with the standard specifications of SRL

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

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