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Certificate of Analysis

Product	83172 - L-Cystine for tissue culture, 99% - [56-89-3]
Batch No	9555212
Analysis Date	21-Jan-2024
Date of Manufacture	January 2024
Expiry Date/Re-Test Date	January 2029
Molecular Formula	C6H12N2O4S2
Molecular Weight	240.30

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off white	White
Appearance (Form)	Crystalline compound	Crystalline compound
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Solubility (Colour) 10% solution 2N HCl	Colourless to pale yellow	Colourless
Assay (Iodometric)	min. 99%	99.0%
Specific rotation $[\alpha]$	-215° to -224° (C=2, N HCl)	-223.94°
Loss on drying	max. 0.5%	0.15%
Sulphated Ash	max. 0.1%	0.05%
Chloride (Cl)	max. 0.05%	Passes
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Tissue Culture	Passes	Passes

FRM/82/11/4/83172 Rev No. 4 Date 04/10/2023

Prepared by **Prajakta**

In compliance with the standard specifications of SRL

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

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