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Certificate of Analysis

Product 50277 - L-Glutamic Acid for tissue culture, 99% -
[56-86-0]
Batch No 8772315
Analysis Date 21-Apr-2024
Date of Manufacture April 2024
Expiry Date/Re-Test Date April 2029
Molecular Formula C5H9NO4
Molecular Weight 147.13

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Solubility (Colour) 10% solution in 2N HCl	Colourless	Colourless
Assay (NT)	min. 99%	99.5%
Specific rotation $[\alpha]$	+ 29° to + 33° (C=2, 5N HCl)	+ 30.268°
Loss on drying	max. 0.5%	0.02%
Sulphated Ash	max. 0.1%	0.06%
Chloride (Cl)	max. 0.02%	Passes
Sulphate (SO4)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH4)	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Tissue Culture	Passes	Passes

FRM/82/11/4/50277 Rev No. 3 Date 03/07/2022

Prepared by **ThakurRohit**

In compliance with the standard specifications of SRL

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

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