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Certificate of Analysis

Product	75931 - L-Glutamic Acid Monosodium Salt Monohydrate (MSG) for cell culture, 99% - [6106-04-3]
Batch No	3708569
Analysis Date	10-Jan-2022
Date of Manufacture	January 2022
Expiry Date/Re-Test Date	January 2027
Molecular Formula	C ₅ H ₈ NO ₄ Na.H ₂ O
Molecular Weight	187.14

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Needle shape compound / Crystalline powder	Needle shape compound
Solubility (Turbidity) 10% solution 5N HCl	Clear	Clear
Solubility (Colour) 10% solution 5N HCl	Colourless	Colourless
Assay	min. 99%	99.9%
Specific rotation [α]	+23° to +25° (C=2, 5N HCl)	+23.7°
Chloride (Cl)	max. 0.1%	Passes
Sulphate (SO ₄)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes test	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	< 0.05 EU/mg	Passes

FRM/82/11/4/75931 Rev No. 2 Date 11/01/2022

Prepared by Yogesh

In compliance with the standard specifications of SRL

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

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