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Certificate of Analysis

Product	56341 - L-Ornithine Monohydrochloride for cell culture, 99%, Endotoxin (BET) 0.05EU/mg - [3184-13-2]
Batch No	4462808
Analysis Date	27-Mar-2024
Date of Manufacture	March 2024
Expiry Date/Re-Test Date	March 2029
Molecular Formula	C5H13N2O2Cl
Molecular Weight	168.62

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	min. 99%	99.6%
Specific rotation [α]	+22.5° to +24.5° (C=2, 5N HCl)	+22.586°
Loss on drying	max. 0.5%	0.3%
Sulphated Ash	max. 0.1%	0.03%
Sulphate (SO ₄)	max. 0.01%	Passes
Iron (Fe)	max. 0.001%	Passes
Heavy Metals (Pb)	max. 0.001%	Passes
Ammonium (NH ₄)	max. 0.01%	Passes
Homogeneity by TLC	Passes test	Passes
Suitability for Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<0.05 EU/mg	Passes

FRM/82/11/4/56341 Rev No. 1 Date 27/03/2022

Prepared by **Dhanashree**

In compliance with the standard specifications of SRL

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

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