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PVT. LTD.**

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Certificate of Analysis

Product	88726 - L-Threonine for cell culture, 99%, Endotoxin (BET) 1EU/mg - [72-19-5]
Batch No	5893610
Analysis Date	28-Apr-2022
Date of Manufacture	April 2022
Expiry Date/Re-Test Date	April 2027
Molecular Formula	C ₄ H ₉ NO ₃
Molecular Weight	119.12

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to cream	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution 2N HCl	Clear	Clear
Assay (NT)	min. 99%	99.8%
Specific rotation [α]	-29° to -27° (C=2,water)	-28.2°
Loss on drying	max. 0.5%	0.2%
Sulphated Ash	max. 0.1%	0.08%
Chloride (Cl)	max. 0.01%	Passes
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 test	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<1 EU/mg	Passes

FRM/82/11/4/88726 Rev No. 1 Date 28/04/2022

Prepared by Yogesh

In compliance with the standard specifications of SRL

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

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