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Certificate of Analysis

Product	11894 - L-Isoleucine for cell culture, 99%, Endotoxin (BET) 1EU/mg - [73-32-5]
Batch No	7701253
Analysis Date	10-Jul-2024
Date of Manufacture	July 2024
Expiry Date/Re-Test Date	July 2029
Molecular Formula	C6H13NO2
Molecular Weight	131.17

Test Parameters	Standards	Actual Results
Appearance (Colour)	White to off-white	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 5% solution in 6N HCl	Clear	Clear
Assay (NT)	min. 99%	99.6%
Specific rotation $[\alpha]_{20^{\circ}\text{C}}$	+39° to +41° (C=4, 6N HCl)	+39.995°
Loss on drying	max. 0.5%	0.1%
Sulphated Ash	max. 0.1%	0.06%
Chloride (Cl)	max. 0.01%	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 Cell Culture	Passes	Passes
Bacterial Endotoxin Test (BET) (EU/mg = IU/mg)	<1 EU/mg	Passes

FRM/82/11/4/11894 Rev No. 1 Date 27/03/2022

Prepared by Vivek

In compliance with the standard specifications of SRL

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

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