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## Certificate of Analysis

<b>Product</b>	<b>55269 - L-Valine for tissue culture, 99% - [72-18-4]</b>
<b>Batch No</b>	<b>6209723</b>
<b>Analysis Date</b>	09-Aug-2023
<b>Date of Manufacture</b>	August 2023
<b>Expiry Date/Re-Test Date</b>	August 2028
<b>Molecular Formula</b>	C <sub>5</sub> H <sub>11</sub> NO <sub>2</sub>
<b>Molecular Weight</b>	117.15

Test Parameters	Standards	Actual Results
Appearance (Colour)	White	White
Appearance (Form)	Crystalline powder	Crystalline powder
Solubility (Turbidity) 10% solution in 2N HCl	Clear	Clear
Solubility (Colour) 10% solution in 2N HCl	Colourless	Colourless
Assay (NT)	min. 99%	99.6%
Specific rotation [α]	+25° to +28.5° (C=2, 5N HCl)	+26.1°
Loss on drying	max. 0.5%	0.2%
Sulphated Ash	max. 0.1%	0.04%
Chloride (Cl)	max. 0.01%	Passes
Sulphate (SO <sub>4</sub> )	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 Tissue Culture	Passes	Passes

FRM/82/11/4/55269 Rev No. 1 Date 09/08/2018

Prepared by Dnyaneshwar

In compliance with the standard specifications of SRL

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

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