



**SISCO
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PVT. LTD.**

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Certificate of Analysis

| | |
|---------------------------------|---|
| Product | 20451 - L-Valine for cell culture, 99%, Endotoxin (BET) 1EU/mg - [72-18-4] |
| Batch No | 1445404 |
| Analysis Date | 28-Apr-2022 |
| Date of Manufacture | April 2022 |
| Expiry Date/Re-Test Date | April 2027 |
| Molecular Formula | C5H11NO2 |
| Molecular Weight | 117.15 |

| Test Parameters | Standards | Actual Results |
|---|------------------------------|--------------------|
| Appearance (Colour) | White | White |
| Appearance (Form) | Crystalline powder | Crystalline powder |
| Solubility (Turbidity) 10% solution 2N HCl | Clear | Clear |
| Solubility (Colour) 10% solution 2N HCl | Colourless | Colourless |
| Assay (NT) | min. 99% | 99.9% |
| Specific rotation $[\alpha]$ | +25° to +28.5° (C=2, 5N HCl) | +25.2° |
| Loss on drying | max. 0.5% | 0.1% |
| Sulphated Ash | max. 0.1% | 0.05% |
| 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 |
| 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/82/11/4/20451 Rev No. 1 Date 28/04/2022

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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