

CERTIFICATE OF ANALYSIS

Product Name	L-Isoleucine powder	Batch Number	010049200728
Package	25.0kg per drum	Manufacture Date	Jul 28, 2020
CAS Number	73-32-5	Best Used Before	Jul 27, 2022

Items	Specifications	Results
Appearance	White crystalline or crystalline powder	Conforms
Identification	Infrared absorption	Conforms
Specific rotation $[\alpha]_{D_{20}}$	+38.9° ~ +41.8°	+39.5°
pH	5.5 to 7.0	6.2
Loss on drying	≤0.30%	0.11%
Residue on ignition	≤0.30%	0.07%
Chloride (Cl)	≤0.05%	Conforms
Sulfate(SO ₄)	≤0.03%	Conforms
Iron(Fe)	≤30ppm	Conforms
Heavy metals	≤15ppm	Conforms
Lead	≤3ppm	Conforms
Arsenic(as As ₂ O ₃)	≤1ppm	Conforms
Mercury	≤0.1ppm	Conforms
Cadmium	≤1ppm	Conforms
Assay	98.5% to 101.5%	99.4%
Total Plate Count	≤1000cfu/g	Conforms
Yeast and Mould	≤100cfu/g	Conforms
E.Coli	Negative	Negative
Salmonella	Negative	Negative
S.aureus	Negative	Negative

Conclusion: Qualified