

CERTIFICATE OF ANALYSIS

Product Name	L-Isoleucine powder	Batch Number	010049200825
Package	5.0kg per bag	Manufacture Date	Aug 25, 2020
CAS Number	73-32-5	Best Used Before	Aug 24, 2022

Items	Specifications	Results
Appearance	White crystalline or crystalline powder	Conforms
Identification	Infrared absorption	Conforms
Specific rotation $[\alpha]_{D_{20}}$	+38.9° ~ +41.8°	+39.2°
pH	5.5 to 7.0	6.3
Loss on drying	≤0.30%	0.06%
Residue on ignition	≤0.30%	0.05%
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%	99.7%
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