



Specification

L-Isoleucine USP

Catalog Number: IL1001
CAS Number: 73-32-5
Molecular Formula: $C_6H_{13}NO_2$
Molecular Weight: 131.17
Storage: 15°C – 30°C
Retest Period: Two years from the date of manufacture

Test	Specification
Appearance	White powder
Assay (Dry Basis)	98.5% to 101.5%
Identification (FTIR)	Positive
Specific Rotation	+38.90° to +41.80°
Moisture (LOD)	≤ 0.30%
Solubility (1g/100mL)	Clear & colorless
pH Value	5.5 - 7.0
Residue on Ignition	≤ 0.30%
Chloride	≤ 0.05%
Sulfate	≤ 0.03%
Heavy Metals	≤ 15.0ppm
Arsenic	≤ 1.00ppm
Cadmium	≤ 1.00ppm
Iron	≤ 30.0ppm
Lead	≤ 3.00ppm
Mercury	≤ 0.1ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	≤ 50cfu/g
<i>Salmonella</i>	Negative
The lot conforms to the specifications for USP24.	

Approved:

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