



Gojira Fine Chemicals, LLC
Quality Products & Services Meeting Customer Needs
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Certificate of Analysis

L-Isoleucine USP

Catalog Number: IL1001
Lot Number: 0703802
CAS Number: 73-32-5
Synonym(s): (2S,3S)-2-Amino-3-methylpentanoic acid
Molecular Formula: C₆H₁₃NO₂
Molecular Weight: 131.17
Storage: 15°C – 30°C
Date of Manufacture: April 11, 2018
Retest Date: April 10, 2020

Test	Specification	Result
Appearance	White powder	Conforms
Assay (Dry Basis)	98.50% to 101.5%	99.2%
Identification (FTIR)	Positive	Conforms
Specific Rotation	+38.90° to +41.80°	+40.0°
Solubility (10mg/mL)	Clear & colorless	Conforms
pH Value	5.5 - 7.0	5.68
Moisture (LOD)	≤ 0.30%	0.07%
Residue on Ignition	≤ 0.30%	0.06%
Chloride	≤ 0.05%	< 0.03%
Sulfate	≤ 0.03%	< 0.03%
Heavy Metals	≤ 15.0ppm	< 15.0ppm
Arsenic	≤ 1.0ppm	< 1.0ppm
Cadmium	≤ 1.0ppm	< 1.0ppm
Iron	≤ 30.0ppm	< 30.0ppm
Lead	≤ 3.0ppm	< 3.0ppm
Mercury	≤ 0.1ppm	< 0.1ppm
Total Plate Count	≤ 1,000cfu/g	< 1,000cfu/g
Yeast & Mold	≤ 100cfu/g	< 100cfu/g
Salmonella	Negative	Negative

Approved by:

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Date: July 3, 2018

For research purposes only. Not for drug or clinical use in humans or human food additive use.