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## Product Specification

**Product Name:**

L-Isoleucine – from non-animal source, meets EP, JP, USP testing specifications, suitable for cell culture, 98.5–101.0%

**Product Number:****I7403****CAS Number:**

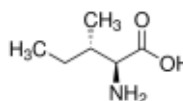
73-32-5

**MDL:**

MFCD00064222

**Formula:**C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub>**Formula Weight:**

131.17 g/mol

**TEST****Specification**

Origin	Non-Animal Source
Appearance (Color)	White
Appearance (Form)	Powder or Crystals
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
0.5 g to 10 ml of 1M HCl	
Identity by IR	Conforms to Structure
Specific Rotation	40.0 - 41.5 °
EP/JP at 20 deg C; c = 4 in 6 M HCl	
Specific Rotation	38.9 - 41.8 °
USP at 25 deg C; c = 4 in 6 M HCl	
Chloride Content	Conforms
< or = 0.020%	
Ammonium	Conforms
< or = 0.02%	
Sulfate	Conforms
< or = 0.020%	
Iron (Fe)	Conforms
< or = 10 ppm	
Heavy Metals	Conforms
< or = 10 ppm	
Arsenic (As)	Conforms
< or = 1 ppm	
Loss on Drying	≤ 0.20 %
Residue on ignition (Ash)	≤ 0.10 %

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at [Sigma-Aldrich.com](http://Sigma-Aldrich.com). For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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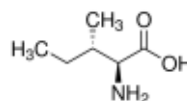
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Formula:

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TEST	Specification
Ninhydrin-Positive Substances	Conforms
pH	5.5 - 6.5
by EP/JP; 1.0 % in H <sub>2</sub> O	
Assay	98.5 - 101.0 %
dry basis	
pH	5.5 - 7.0
USP; 1.0 % in H <sub>2</sub> O	
Endotoxin Assay	≤ 1 EU/mg
Cell Culture Test	Pass
Residual Solvents USP 467	Meets Requirements
Recommended Retest Period	-----
4 years	
Note	-----
Meets USP, EP, and JP testing specifications	

Specification: PRD.2.ZQ5.10000032452

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