3050 Spruce Street, Saint Louis, MO 63103, USA Website: www.sigma-aldrich.com Email USA: techserv@sial.com Outside USA: eurtechserv@sial.com

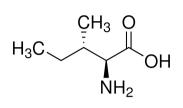
# **Certificate of Analysis**

#### **Product Name :**

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

Product Number :
Batch Number :
CAS Number :
MDL Number :
Molecular Formula :
Formula Weight :
Recommended Retest Date :
Quality Release Date :

I7403-BULK 0000447704 73-32-5 MFCD00064222 C<sub>6</sub>H<sub>13</sub>NO<sub>2</sub> 131.17 g/mol Jun 2029 02 Jun 2025



Test	Specification	Result
Origin	Non-Animal Source	Conforms
Appearance (Color)	White	White
Appearance (Form)	Powder or Crystals	Powder
Solubility (Color)	Colorless	Colorless
Solubility (Turbidity)	Clear	Clear
0.5 g to 10 ml of 1M HCl		
Identity by IR	Conforms to Structure	Conforms
Specific Rotation	40.0 - 41.5 °	41.1 °
EP/JP at 20 deg C; $c = 4$ in 6 M HCl		
Specific Rotation	38.9 - 41.8 °	40.7 °
USP at 25 deg C; c = 4 in 6 M HCl		
Chloride Content	Conforms	Conforms
< or = 0.020%		
Ammonium	Conforms	Conforms
< or = 0.02%		
Sulfate	Conforms	Conforms
< or = 0.020%		
Iron (Fe)	Conforms	Conforms
< or = 10 ppm		
Heavy Metals	Conforms	Conforms
< or = 10 ppm		
Arsenic (As)	Conforms	Conforms

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. For further inquiries, please contact Technical Service. Purchase must determine the suitability of the product for its particular use. See reverse side of website or packing slip for additional terms and conditions of sale

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## Sigma-Aldrich

Product Batch	I7403-BULK 0000447704				
< or = 1 ppm					
Loss on Drying		≤ 0.20 %	0.00 %		
Residue on ignition (Ash)		≤ 0.10 %	0.01 %		
Residual Solvents USP <467>		Meets Requirements	No residual solvents are present		
Ninhydrin-Positive Substances		Conforms	Conforms		
рН		5.5 - 7.0	6.6		
USP; 1.0 %	in H2O				
рН		5.5 - 6.5	6.0		
by EP/JP; 1	.0 % in H2O				
Assay		98.5 - 101.0 %	99.9 %		
dry basis					
Endotoxin Assa	у	≤ 1 EU/mg	< 0 EU/mg		
Cell Culture Tes	st	Pass	Pass		
Cell Line		Attached Cell Line	L929		
Cell Line		Attached Cell Line	СНО		
Cell Line		Attached Cell Line	ВНК		

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Jagodige Yasomanee, Supervisor Quality Assurance St. Louis, Dekalb US

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