

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaldrich.com

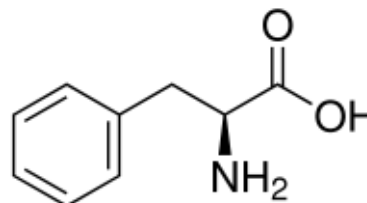
Email USA: techserv@sial.com

Outside USA: eurtechserv@sial.com

Product Specification

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

Product Number: **P5482**
CAS Number: 63-91-2
MDL: MFCD00064227
Formula: C₉H₁₁NO₂
Formula Weight: 165.19 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
0.5g to 10 ml, 1M HCL	
Identity by IR	Conforms to Structure
Origin	Non-Animal Source
Specific Rotation	-35.0 - -33.5 °
EP; at 20 deg C; C = 2 in water	
Specific Rotation	-34.7 - -32.7 °
USP; at 25 deg C; C = 2 in water	
Chloride	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. 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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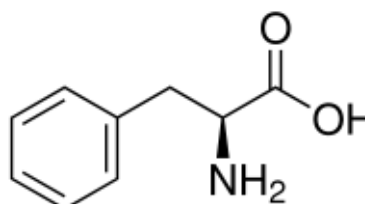
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TEST	Specification
Ninhydrin-Positive Substances	Conforms
Other amino acids	
pH	5.4 - 6.0
1% in H ₂ O	
Assay	98.5 - 101.0 %
Dry basis	
Residual Solvents USP 467	Meets Requirements
Endotoxin Level	≤ 1 EU/mg
Cell Culture Test	Pass
Recommended Retest Period	-----
4 Years	
Note	-----
Meets USP, EP, and JP testing specifications	

Specification: PRD.0.ZQ5.10000030994

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