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## Product Specification

Product Name:

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

Product Number:

A7469

CAS Number:

56-41-7

MDL:

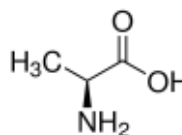
MFCD00064410

Formula:

C<sub>3</sub>H<sub>7</sub>NO<sub>2</sub>

Formula Weight:

89.09 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1.0 g to 10 ml, H <sub>2</sub> O	
Origin	Conforms
Must Be Non-Animal Source	
Specific Rotation	14.3 - 15.2 °
C = 10 in 6 M HCl at 20 Deg C, per EP	
Chloride Content	< = 0.020%
Ammonium	≤ 0.02 %
Sulfate	< = 0.020%
Iron (Fe)	< = 10 ppm
Arsenic (As)	< = 1 ppm
Loss on Drying	≤ 0.20 %
Residue on ignition (Ash)	≤ 0.10 %
Ninhydrin-Positive Substances	Conforms
pH	5.7 - 6.7
5% in H <sub>2</sub> O	
Assay (Dry Basis)	98.5 - 101.0 %
Specific Rotation	13.7 - 15.1 °
C = 10 in 6 M HCl at 25 Deg C, per USP	
Residual Solvents	Meets Requirements
Identity by IR	Conforms to Structure
Endotoxin Assay	≤ 1 EU/mg

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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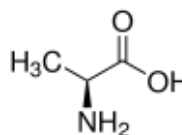
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TEST	Specification
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Cell Culture Test

Pass

Note

Meets USP and EP testing specifications

Recommended Retest Period

4 years

Specification: PRD.4.ZQ5.10000007533

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