



Specification

L-Phenylalanine USP/FCC

Catalog Number: PL1003
CAS Number: 63-91-2
Synonym(s): (S)-2-Amino-3-phenylpropionic acid
Molecular Formula: $C_9H_{11}NO_2$
Molecular Weight: 165.19
Storage: 15°C – 30°C
Retest Period: Three years from the date of manufacture

Test	Specification
Appearance	White to off-white powder
Assay ^{1,2}	98.50 – 101.50%
Identification ^{1,2}	Conforms
Specific Rotation ^{1,2}	-34.70 to -32.70°
Mesh Size	Report
Bulk Density	0.40 – 0.70g/mL
Tap Density	0.50 – 0.90g/mL
pH ¹	5.4 – 6.0
Related Compounds ¹	
Individual	≤ 0.5%
Total	≤ 2.0%
Moisture (LOD) ^{1,2}	≤ 0.20%
Residue on Ignition ^{1,2}	≤ 0.10%
Chloride ¹	≤ 0.05%
Sulfate ¹	≤ 0.03%
Heavy Metals ¹	≤ 15ppm
Arsenic	≤ 1ppm
Cadmium	≤ 1ppm
Iron	≤ 30ppm
Lead ²	≤ 5mg/kg
Mercury	≤ 0.1ppm
Total Plate Count	≤ 1,000cfu/g
Yeast & Mold	≤ 100cfu/g
Coliforms	Negative
<i>E. coli</i>	Negative
<i>S. aureus</i>	Negative
<i>Salmonella</i>	Negative

Approved:

Date: September 11, 2018



Gojira Fine Chemicals, LLC

Quality Products & Services Meeting Customer Needs
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