

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-12-26 15:20:55  
Date of Next Testing: 2027-12-25 15:20:55  
Product Name: **L-Phenylalanine**  
CAS Number: 63-91-2  
Specifications & Purity: 99%  
Lot #: L2318091  
SKU #: **P110424**  
**Analysis:** **309391**  
Storage Temperature: Protected from light, Desiccated

Parameter	Limit Values	Result
Purity	99-100 (%)	99.99 %
Loss on drying	0-0.3 (%)	0.10 %
Pb measure	0-10 (ppm)	5.23 ppm
PH	5.4-6	5.70
Heavy metal (as Pb)	0-20 (ppm)	5.23 ppm
Sulfate Ash	0-0.1 (%)	0.02 %
Specific rotation $[\alpha]_{20/D(c=2, H_2O)}$	-35.5~-33.5 (°)	-33.50 °
Appearance (P110424)	White to Off-White Powder or Crystals	White to Off-White Powder or Crystals
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager