

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-09-15 09:20:51  
Date of Next Testing: 2025-09-14 09:20:51  
Product Name: **4-Nitro-L-phenylalanine Hydrate**  
CAS Number: 949-99-5  
Specifications & Purity:  $\geq 98.0\%$ (HPLC)  
Lot #: K2129675  
SKU #: **N139482**  
**Analysis: 276375**

Parameter	Limit Values	Result
Purity(HPLC)	98-100 (%)	99.62700%
Water by Karl Fischer	0-10 (%)	6.95 %
Purity(NonaqueousTitration)	97.5-102.5 (%)	99.50 %
Specific Rotation $[\alpha]_{20/D}(c=1$ in 1mol/L HCl)	5-7 ( $^{\circ}$ )	7.00 $^{\circ}$
Appearance (N139482)	White to Pale Reddish-Yellow Crystal or Powder	White to Pale Reddish-Yellow Crystal or Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager