

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-11-14 14:33:17  
Date of Next Testing: 2027-11-13 14:33:17  
Product Name: **L-Valinamide hydrochloride**  
CAS Number: 3014-80-0  
Specifications & Purity: 98%  
Lot #: K2309575  
SKU #: **V117016**  
Analysis: **290927**

Parameter	Limit Values	Result
Specific Rotation [a] <sub>D</sub> 20/D(c=1 H <sub>2</sub> O)	24-30 (°)	26.35°
Purity(Titration by AgNO <sub>3</sub> )	97.5-102.5 (%)	102.25 %
Appearance (V117016)	White Powder or Crystals	White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su  
QA & QC Manager