

## Certificate of Analysis

Date of Testing: 2023-11-14 14:35:32  
Date of Next Testing: 2027-11-13 14:35:32  
Product Name: **L-Valinamide hydrochloride**  
CAS Number: 3014-80-0  
Specifications & Purity: 98%  
Lot #: K2309588  
SKU #: **V117016**  
Analysis: **290927**

| Parameter   | Limit Values             | Result                   |
|---|--------------------------|--------------------------|
| Specific Rotation [a] <sub>D</sub> <sup>20</sup> (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    |



John Su  
QA & QC Manager