

Certificate of Analysis

Date of Testing: 2022-01-25 11:35:32
Date of Next Testing: 2026-01-24 11:35:32
Product Name: **Piperazine-2-carboxylic acid dihydrochloride**
CAS Number: 3022-15-9
Specifications & Purity: 98%
Lot #: C1829130
SKU #: **P119067**
Analysis: **070018**

| Parameter | Limit Values | Result |
|---|-----------------------------|-----------------------------|
| Purity(HPLC) | 98-100 (%) | 98.32800 % |
| Purity(Titration by AgNO ₃) | 97.5-102.5 (%) | 98.11 % |
| Appearance (P119067) | white to light yellow solid | white to light yellow solid |
| Infrared spectrum | Conforms to Structure | Conforms to Structure |
| Proton NMR spectrum | Conforms to Structure | Conforms to Structure |



John Su
QA & QC Manager