

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-10-24 14:26:01

Date of Next Testing: 2026-10-23 14:26:01

Product Name: **4-Methylmorpholine hydrochloride**

CAS Number: 3651-67-0

Specifications & Purity: 98%

Lot #: J2319610

SKU #: **M588891**

**Analysis:** **280201**

Storage Temperature: Room temperature, Argon charged

| Parameter                               | Limit Values          | Result                |
|-----------------------------------------|-----------------------|-----------------------|
| Purity(HPLC area)                       | 98-100 (%)            | 99.24 %               |
| Purity(Titration by AgNO <sub>3</sub> ) | 97.5-102.5 (%)        | 102.48 %              |
| Proton NMR spectrum                     | Conforms to Structure | Conforms to Structure |

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

John Su  
QA & QC Manager