

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2026-01-16 15:36:53  
 Date of Next Testing: 2029-01-15 15:36:53  
 Product Name: **1-(Methylsulfonyl)piperazine hydrochloride**  
 CAS Number: 161357-89-7  
 Specifications & Purity:  $\geq 97\%$   
 Lot #: A2615424  
 SKU #: **M191265**  
 Version: **1**  
 Analysis #: **632935**  
 Storage Temperature: Store at 2-8°C

| Parameter                              | Limit Values          | Result                |
|----------------------------------------|-----------------------|-----------------------|
| Purity(HPLC area)                      | 97-100 (%)            | 99.91100 %            |
| Assay(Titration by AgNO <sub>3</sub> ) | 96.5-103.5 (%)        | 103.45000 %           |
| NMR Spectrum 1H                        | Conforms to Structure | Conforms to Structure |
| LC-MS for identification               | Conforms              | Conforms              |



John Su  
QA & QC Manager