

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-08 13:16:39
Date of Next Testing: 2026-12-07 13:16:39
Product Name: **Piperazine Dihydrochloride Monohydrate**
CAS Number: 142-64-3
Specifications & Purity: >98.0%(T)
Lot #: L2201784
SKU #: **P160724**
Analysis: **123502**

Parameter	Limit Values	Result
Purity(Argentmetric Titration)(calcd.on anh.substance)	97.5-102.5 (%)	100.51 %
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager