

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-05-17 16:16:17  
Date of Next Testing: 2027-05-16 16:16:17  
Product Name: **N-(m-Tolyl)piperazine Dihydrochloride**  
CAS Number: 13078-13-2  
Specifications & Purity: 95%  
Lot #: E23151177  
SKU #: **N159751**  
**Analysis: 194419**  
Storage Temperature: Argon charged

Parameter	Limit Values	Result
Assay(Argentometric Titration)	95-103 (%)	96.15000 %
Appearance(N159751)	White to Almost white to Light orange powder to crystal	White to Almost white to Light orange powder to crystal
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager