

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-08-03 18:28:59

Date of Next Testing: 2027-08-02 18:28:59

Product Name: **Piperazine-1,4-diium tetrafluoroborate**

CAS Number:

Specifications & Purity: $\geq 98\%$

Lot #: G2331107

SKU #: **P493936**

Version: **1**

Analysis #: **245990**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(HPLC area)	98-100 (%)	99.68800 %
Fluorine NMR Spectrum	Conforms to structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager