

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2026-06-17 11:55:58

Date of Next Testing: 2029-06-16 11:55:58

Product Name: **Piperazine-1-carboxamide hydrochloride**

CAS Number: 474711-89-2

Specifications & Purity: $\geq 97\%$

Lot #: F2616451

SKU #: **P193514**

Version: **1**

Analysis #: **718221**

Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Assay(Titration by AgNO ₃)	96.5-103.5 (%)	99.91000 %
Purity(HPLC)	97-100 (%)	99.86000 %
Appearance(P193514)	White to off-white solid	White to off-white solid
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
LC-MS for identification	Conforms	Conforms



John Su
QA & QC Manager