

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing:	2023-05-25 14:29:36
Date of Next Testing:	2027-05-24 14:29:36
Product Name:	Piperazinehydrobromide
CAS Number:	59813-07-9
Specifications & Purity:	≥99.5%(4 Times Purification)
Lot #:	E2320446
SKU #	P494142
Version	1
Analysis #:	206033
Storage Temperature:	Room temperature,Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO3)	99.5-100.5 (%)	99.53000 %
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
Appearance(P494142)	White to Light Yellow Solid	white to light yellow solid

A handwritten signature in black ink that reads "John.Su".

John Su
QA & QC Manager