

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-19 14:34:08

Date of Next Testing: 2027-08-19 14:34:08

Product Name: **Piperazine Dihydrobromide**

CAS Number: 59813-05-7

Specifications & Purity: $\geq 98\%$ (N)

Lot #: B2211009

SKU #: **P160723**

Version: **0**

Analysis #: **555487**

Storage Temperature: Argon charged

Parameter	Limit Values	Result
Purity (Argentmetric Titration)	97.5-102.5 (%)	97.70 %
Appearance (P160723)	White to Light Yellow Powder or Crystals	White to Light Yellow Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

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

John Su
QA & QC Manager