

Certificate of Analysis

Date of Testing: 2023-05-25 14:09:24

Date of Next Testing: 2027-05-24 14:09:24

Product Name: **Piperazinehydrobromide**

CAS Number: 59813-07-9

Specifications & Purity: 99.5% (4 Times Purification)

Lot #: E2320410

SKU #: **P494142**

Analysis: **206033**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Purity(Titration by AgNO ₃)	99.5-100.5 (%)	99.53 %
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