

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-11-02 15:02:55

Date of Next Testing: 2028-11-01 15:02:55

Product Name: **Piperazine, anhydrous**

CAS Number: 110-85-0

Specifications & Purity: $\geq 99\%$

Lot #: J2430485

SKU #: **P105274**

Version: **1**

Analysis #: **417720**

Storage Temperature: Protected from light, Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Purity(GC)	99-100 (%)	99.40300 %
Water by Karl Fischer	0-1 (%)	0.34240 %
Appearance (P105274)	White to Light Yellow Flakes, Crystals or Powder	White to Light Yellow Flakes, Crystals or Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager