

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-03-18 17:10:01
Date of Next Testing: 2026-03-17 17:10:01
Product Name: **Piperazine, anhydrous**
CAS Number: 110-85-0
Specifications & Purity: 99%
Lot #: C2211197
SKU #: **P105274**
Analysis: **083444**
Storage Temperature: Protected from light, Argon charged

Parameter	Limit Values	Result
Purity(Titration by HCl)	98.5-101.5 (%)	99.00 %
Water by Karl Fischer	0-1 (%)	0.85 %
Purity(GC)	99-100 (%)	99.22 %
Appearance (P105274)	White to Light Yellow Flakes, Crystals or Powder	White to Light Yellow Flakes, Crystals or Powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager