

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2023-02-23 22:36:16  
Date of Next Testing: 2027-02-22 22:36:16  
Product Name: **1-Boc-piperazine**  
CAS Number: 57260-71-6  
Specifications & Purity:  $\geq 98\%$   
Lot #: B2318964  
SKU #: **B106917**  
Version: **1**  
Analysis #: **184280**  
Storage Temperature: Store at 2-8°C, Argon charged

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.81700 %
Purity(NonaqueousTitration)	97.5-102.5 (%)	99.60000 %
Melting point	44-48 (°C)	47.90000 °C
Appearance (B106917)	white to light yellow solid	white to light yellow solid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su  
QA & QC Manager