

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-01 16:25:48

Date of Next Testing: 2026-06-30 16:25:48

Product Name: **1,4-Piperazinedicarboxaldehyde**

CAS Number: 4164-39-0

Specifications & Purity: $\geq 98\%$

Lot #: F2328105

SKU #: **D189137**

Version: **0**

Analysis #: **061741**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	126-129 (°C)	128.63000 °C
Purity(GC)	98-100 (%)	99.55300 %
Appearance (D189137)	White to Yellow Powder	White to Yellow Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager