

Certificate of Analysis

Date of Testing: 2023-12-15 17:06:18

Date of Next Testing: 2026-12-14 17:06:18

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

CAS Number: 4164-39-0

Specifications & Purity: 98%

Lot #: B2123172

SKU #: **D189137**

Analysis: **305226**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	126-129 (°C)	127.93000 °C
Purity(GC)	98-100 (%)	99.55 %
Appearance (D189137)	White to Yellow Powder	White to Yellow Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure

A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager