

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-08-23 10:03:12

Date of Next Testing: 2026-08-23 10:03:12

Product Name: **1,4-Bis(2-hydroxyethyl)piperazine**

CAS Number: 122-96-3

Specifications & Purity: $\geq 98\%$

Lot #: H2420188

SKU #: **W136083**

Version: **1**

Analysis #: **352412**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	99.46000 %
Melting point	136-140 (°C)	138.59000 °C
Purity(Nonaqueous Titration)	97.5-102.5 (%)	100.32000 %
Appearance (W136083)	White to pale yellow Crystal to Powder	White to pale yellow Crystal to Powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager