

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-02-14 13:40:59
Date of Next Testing: 2027-02-14 13:40:59
Product Name: **1,4-Bis(2-hydroxyethyl)piperazine**
CAS Number: 122-96-3
Specifications & Purity: $\geq 98\%$
Lot #: E2309119
SKU #: **W136083**
Version: **1**
Analysis #: **471865**

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.60%
Melting point	136-140 (°C)	136.00000 °C
Purity(NonaqueousTitration)	97.5-102.5 (%)	98.90%
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