

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-07-23 17:10:12
 Date of Next Testing: 2026-07-23 17:10:12
 Product Name: **1,4-Bis(2-hydroxyethyl)piperazine**
 CAS Number: 122-96-3
 Specifications & Purity: $\geq 98\%$
 Lot #: G2415801
 SKU #: **W136083**
 Version: **1**
 Analysis #: **352411**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Melting point	136-140 (°C)	137.60000 °C
Purity(NonaqueousTitration)	97.5-102.5 (%)	99.31000 %
Purity(GC)	98-100 (%)	98.10000 %
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