

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-12-14 10:25:39

Date of Next Testing: 2025-12-13 10:25:39

Product Name: **Homopiperazine-1,4-bis(2-ethanesulfonic acid) (Homo-PIPES)**

CAS Number: 202185-84-0

Specifications & Purity: $\geq 97\%$ (T)

Lot #: C2212475

SKU #: **H132952**

Version: **0**

Analysis #: **304340**

Storage Temperature: Room temperature, Argon charged, Desiccated, Cool

Parameter	Limit Values	Result
Purity(Neutralization titration)	97-100 (%)	97.20000 %
Water by Karl Fischer	0-5 (%)	2.03600 %
Appearance (H132952)	Colorless or White Powder or Crystals	Colorless or White Powder or Crystals
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager