

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-03-01 18:54:50

Date of Next Testing: 2027-02-28 18:54:50

Product Name: **N-(2-Hydroxyethyl)piperazine**

CAS Number: 103-76-4

Specifications & Purity: $\geq 98\%$

Lot #: B2328180

SKU #: **H101744**

Version: **0**

Analysis #: **141120**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Purity(GC)	98-100 (%)	98.04600 %
Density (20°C)	1.061-1.063	1.06200
Water by Karl Fischer	0-0.5 (%)	0.22000 %
Refractive index n _{20/D}	1.5055-1.5075	1.50650
Appearance (H101744)	Colorless Liquid	Colorless liquid
Infrared spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager