

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-12-06 09:37:09

Date of Next Testing: 2026-12-05 09:37:09

Product Name: **1,4-Piperazinediethanesulfonic acid disodium salt (PIPES 2Na)**

CAS Number: 76836-02-7

Specifications & Purity: $\geq 98\%$

Lot #: L2202556

SKU #: **P113025**

Version: **3**

Analysis #: **153868**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	2.19000 ppm
UV Absorbance 290nm(33%,H ₂ O)	0-0.1	0.05000
Water by Karl Fischer	0-8 (%)	0.04910 %
Purity(Nonaqueous Titration)(As drybase)	98-100 (%)	98.68000 %
Appearance (P113025)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Solubility,Colorless,Clear,25 g plus 50 ml H ₂ O	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager