

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-07-10 09:41:14

Date of Next Testing: 2028-07-09 09:41:14

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

CAS Number: 76836-02-7

Specifications & Purity: $\geq 98\%$

Lot #: F2428496

SKU #: **P113025**

Version: **3**

Analysis #: **348917**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Water by Karl Fischer	0-8 (%)	0.52620 %
UV Absorbance 260 nm(0.1 M in water)	≤ 0.05	0.04300
UV Absorbance 280 nm(0.1 M in water)	≤ 0.05	0.03500
Purity(Nonaqueous Titration)(As drybase)	98-100 (%)	98.45000 %
Appearance (P113025)	white crystalline powder	white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility, Colorless, Clear, 25 g plus 50 ml H ₂ O	pass	Pass



John Su
QA & QC Manager