

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2022-09-21 10:25:15
Date of Next Testing: 2026-09-20 10:25:15
Product Name: **1,4-Piperazinediethanesulfonic acid(PIPES)**
CAS Number: 5625-37-6
Specifications & Purity: 99%
Lot #: 12215679
SKU #: **P105090**
Analysis: **138172**

Parameter	Limit Values	Result
Purity (Titration by H ₂ SO ₄)	99-100 (%)	99.56%
UV Absorbance 290nm(20% in 1N NaOH)	0-0.1	0.06
Heavy metal (as Pb)	0-5 (ppm)	2.55 ppm
Appearance (P105090)	white crystalline powder	white crystalline powder
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility,0.25g/ml of 1N NaOH	Clear colorless	Clear Colorless



John Su
QA & QC Manager