

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-06-10 13:33:55
 Date of Next Testing: 2029-06-09 13:33:55
 Product Name: **1,4-Piperazinediethanesulfonic acid(PIPES)**
 CAS Number: 5625-37-6
 Specifications & Purity: $\geq 99.5\%$
 Lot #: I2111171
 SKU #: **P105093**
 Version: **1**
 Analysis #: **522401**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Molybdenum(Mo)	0-0.0005 (%)	0.00000 %
Potassium(K)	0-0.005 (%)	0.00025 %
Bismuth(Bi)	0-0.0005 (%)	0.00000 %
Calcium(Ca)	0-0.005 (%)	0.00220 %
Aluminum(Al)	0-0.005 (%)	0.00000 %
Purity	99.5-100 (%)	99.83600 %
Lithium(Li)	0-0.0005 (%)	0.00000 %
Nickel(Ni)	0-0.0005 (%)	0.00000 %
Ignition Residue(Ash)(SO ₄ , 900°C)	0-0.5 (%)	0.00240 %
loss on drying, 110 °C	0-0.5 (%)	0.00000 %
Iron(Fe)	0-0.0005 (%)	0.00047 %
Magnesium(Mg)	0-0.0005 (%)	0.00015 %
Chromium(Cr)	0-0.0005 (%)	0.00004 %
Lead(Pb)	0-0.0005 (%)	0.00000 %
Appearance (P105093)	White powder	White powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Solubility in 1 M NaOH , Colorless, Clear, 0.5 M	pass	Pass



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager