

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-08-04 17:01:37
 Date of Next Testing: 2029-08-03 17:01:37
 Product Name: **1,4-Piperazinediethanesulfonic acid(PIPES)**
 CAS Number: 5625-37-6
 Specifications & Purity: $\geq 99.5\%$
 Lot #: G2531538
 SKU #: **P105093**
 Version: **1**
 Analysis #: **505486**
 Storage Temperature: Room temperature

Parameter	Limit Values	Result
Molybdenum(Mo)	0-0.0005 (%)	0.00004 %
Potassium(K)	0-0.005 (%)	0.00076 %
Bismuth(Bi)	0-0.0005 (%)	0.00005 %
Calcium(Ca)	0-0.005 (%)	0.00000 %
Aluminum(Al)	0-0.005 (%)	0.00000 %
Lithium(Li)	0-0.0005 (%)	0.00000 %
Nickel(Ni)	0-0.0005 (%)	0.00000 %
Ignition Residue(Ash)(SO ₄ , 900°C)	0-0.5 (%)	0.31000 %
loss on drying, 110 °C	0-0.5 (%)	0.44000 %
Iron(Fe)	0-0.0005 (%)	0.00000 %
Magnesium(Mg)	0-0.0005 (%)	0.00000 %
Chromium(Cr)	0-0.0005 (%)	0.00000 %
Lead(Pb)	0-0.0005 (%)	0.00000 %
Purity	99.5-100 (%)	99.75000 %
Appearance (P105093)	White powder	White powder
Solubility in 1 M NaOH , Colorless,Clear,0.5 M	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



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

John Su
QA & QC Manager