

Certificate of Analysis

Date of Testing: 2023-04-18 11:54:51
Date of Next Testing: 2027-04-17 11:54:51
Product Name: **1,4-Piperazinediethanesulfonic acid(PIPES)**
CAS Number: 5625-37-6
Specifications & Purity: 99%
Lot #: D2308320
SKU #: **P105090**
Analysis: **213652**

Parameter	Limit Values	Result
UV Absorbance 290nm(20% in 1N NaOH)	0-0.1	0.00
Heavy metal (as Pb)	0-5 (ppm)	2.50 ppm
Purity(Neutralization titration)	99-102.5 (%)	99.69%
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