

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2023-07-28 10:11:55

Date of Next Testing: 2027-07-27 10:11:55

Product Name: **1,4-Piperazinediethanesulfonic acid(PIPES)**

CAS Number: 5625-37-6

Specifications & Purity: for cell culture, ≥99%

Lot #: G2314174

SKU # **P105092**

Version **0**

Analysis #: **109097**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
UV Absorbance 290nm(20% in 1N NaOH)	0-0.1	0.06400
Heavy metal (as Pb)	0-5 (ppm)	0.00000 ppm
Purity (Titration by H2SO4)	99-100 (%)	99.13000 %
Endonuclease Detection	0-0.1 (EU/g)	0.10000 EU/g
standard plate count	0-100 (cfu/g)	95.00000 cfu/g
Appearance (P105092)	White Crystals, Powder or Crystalline Solid	White Crystals, Powder or Crystalline Solid
Cell Culture Test	pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
RNASE, DNASE, NICKASE AND PROTEASE	none detected	none detected
Solubility in 1N NaOH , Colorless,Clear,250mg/ml	pass	Pass



John Su
QA & QC Manager