

Certificate of Analysis

Date of Testing: 2023-03-15 16:24:14

Date of Next Testing: 2027-03-14 16:24:14

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

CAS Number: 5625-37-6

Specifications & Purity: for cell culture, ≥99%

Lot #: C2308392

SKU # **P105092**

Version **0**

Analysis #: **036266**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
UV Absorbance 290nm(20% in 1N NaOH)	0-0.1	0.07
Endonuclease Detection	0-0.1 (EU/g)	0.08 EU/g
Heavy metal (as Pb)	0-5 (ppm)	0.00 ppm
standard plate count	0-100 (cfu/g)	95.00 cfu/g
Purity (Titration by H2SO4)	99-100 (%)	99.66 %
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
RNASE, DNASE, NICKASE AND PROTEASE	none detected	none detected
Solubility in 1N NaOH , Colorless,Clear,250mg/ml	pass	Pass
Proton NMR spectrum	Conforms to Structure	Conforms to Structure



John Su
QA & QC Manager