

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-10-28 14:58:31

Date of Next Testing: 2028-10-27 14:58:31

Product Name: **HEPES**

CAS Number: 7365-45-9

Specifications & Purity: Suitable for molecular biology, ≥99.5%, pH 5.0-6.5 (1 M in H₂O)

Lot #: J2527768

SKU #: **H1456161**

Version: **1**

Analysis #: **585085**

Storage Temperature: Room temperature, Argon charged

Parameter	Limit Values	Result
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Arsenic(As)	0-0.1 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Ignition Residue (as sulfate)	0-0.1 (%)	0.00000 %
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Purity(Titration)	99.5-100.5 (%)	100.19000 %
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Chloride (Cl-)	0-50 (ppm)	0.00000 ppm
PH(25 °C, 1 M in Water)	5-6.5	5.41000
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Loss on drying(110°C)	0-0.5 (%)	0.28000 %
UV Absorbance 280nm(0.5 M in H ₂ O)	0-0.1	0.01500
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
UV Absorbance 260nm(0.5 M in H ₂ O)	0-0.1	0.02000

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Parameter	Limit Values	Result
Lead(Pb)	0-5 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Appearance(H1456161)	white crystalline powder	white crystalline powder
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
Insoluble matter	pass	Pass
NMR Spectrum 1H	Conforms to Structure	Conforms to Structure
DNases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected



John Su
QA & QC Manager