

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2025-12-09 09:16:45

Date of Next Testing: 2027-11-29 09:16:45

Product Name: **HEPES**

CAS Number: 7365-45-9

Specifications & Purity: Suitable for molecular biology, ≥99.5%(T)

Lot #: L2505579

SKU #: **H109408**

Version: **2**

Analysis #: **595344**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Cadmium(Cd)	0-5 (ppm)	0.00000 ppm
(As)Arsenic	0-0.1 (ppm)	0.00000 ppm
Sodium(Na)	0-50 (ppm)	0.00000 ppm
Zinc(Zn)	0-5 (ppm)	0.00000 ppm
Cobalt(Co)	0-5 (ppm)	0.00000 ppm
Lithium(Li)	0-5 (ppm)	0.00000 ppm
Magnesium(Mg)	0-5 (ppm)	0.00000 ppm
Chromium(Cr)	0-5 (ppm)	0.00000 ppm
Iron(Fe)	0-5 (ppm)	0.00000 ppm
Nickel(Ni)	0-5 (ppm)	0.00000 ppm
Barium(Ba)	0-5 (ppm)	0.00000 ppm
Aluminum(Al)	0-5 (ppm)	0.00000 ppm
Sulfate(SO42-)	0-50 (ppm)	0.00000 ppm
Calcium(Ca)	0-10 (ppm)	0.00000 ppm
Molybdenum(Mo)	0-5 (ppm)	0.00000 ppm
Strontium(Sr)	0-5 (ppm)	0.00000 ppm
Copper(Cu)	0-5 (ppm)	0.00000 ppm
(Pb)Lead	0-5 (ppm)	0.00000 ppm
Chloride (Cl-)	0-50 (ppm)	15.00000 ppm
Manganese(Mn)	0-5 (ppm)	0.00000 ppm
Bismuth(Bi)	0-5 (ppm)	0.00000 ppm
Potassium(K)	0-50 (ppm)	0.00000 ppm
UV Absorbance 260nm(0.5 M in H2O)	0-0.1	0.01700
UV Absorbance 280nm(0.5 M in H2O)	0-0.1	0.01100
Ignition Residue (as sulfate)	0-0.1 (%)	0.00000 %

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Parameter	Limit Values	Result
loss on drying, 110 °C	0-0.5 (%)	0.46910 %
PH(25 °C, 1 M in Water)	5-6.5	5.36000
Purity (T)	99.5-100.5 (%)	100.50000 %
Appearance (H109408)	white crystalline powder	white crystalline powder
Proton NMR spectrum	Conforms to Structure	Conforms to Structure
Insoluble matter	pass	Pass
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
DNases	none detected	none detected
proteases	none detected	none detected
RNases	none detected	none detected



John Su
QA & QC Manager