

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: HEPES
Specifications & Purity: for molecular biology, ≥99.5%(T)
SKU # H109408

Parameter	Limit Values
Cadmium(Cd)	0-5 (ppm)
(As)Arsenic	0-0.1 (ppm)
Sodium(Na)	0-50 (ppm)
Zinc(Zn)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Chrome(Cr)	0-5 (ppm)
UV Absorbance 260nm(0.5 M in H ₂ O)	0-0.1
Iron(Fe)	0-5 (ppm)
Nickel(Ni)	0-5 (ppm)
Barium(Ba)	0-5 (ppm)
UV Absorbance 280nm(0.5 M in H ₂ O)	0-0.1
Aluminum(Al)	0-5 (ppm)
useful PH range	6.8-8.2
Ignition Residue (as sulfate)	0-0.1 (%)
Sulfate(SO ₄ ²⁻)	0-50 (ppm)
loss on drying, 110 °C	0-0.5 (%)
Calcium(Ca)	0-10 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
(Pb)Lead	0-5 (ppm)
Chloride (Cl ⁻)	0-50 (ppm)
Manganese(Mn)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
PH(25 °C, 1 M in Water)	5-6.5
Potassium(K)	0-50 (ppm)
Appearance (H109408)	white crystalline powder
DNases	none detected
Insoluble matter	pass
phosphatases	none detected

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Parameter

pKa
proteases
Proton NMR spectrum
RNases
Solubility in H₂O , soluble , 1M , 20°C, clear, colorless
Purity (T)

Limit Values

6.8
none detected
Conforms to Structure
none detected
pass
99.5-100.5 (%)