

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: **MOPS**
Specifications & Purity: UltraBio™, Suitable for molecular biology, Ultra pure, ≥99.5%(T)
SKU #: **M431507**

Parameter	Limit Values
Appearance(M431507)	Colorless or White Powder or Crystals
Assay(Titration by NaOH)	99.5-100.5 (%)
Loss on drying	0-1 (%)
Sulfated Ash	0-0.1 (%)
Carbon by Elemental Analysis	39.28-40.97 (%)
Hydrogen by Elemental Analysis	7.05-7.38 (%)
Nitrogen by Elemental Analysis	6.52-6.83 (%)
Infrared spectrum	Conforms to Structure
Aluminium(Al)	0-5 (ppm)
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-10 (ppm)
Cadmium(Cd)	0-5 (ppm)
Cobalt (Co)	0-5 (ppm)
Chromium(Cr)	0-5 (ppm)
Copper(Cu)	0-5 (ppm)
Iron(Fe)	0-5 (ppm)
Potassium(K)	0-50 (ppm)
Lithium(Li)	0-5 (ppm)
Magnesium (Mg)	0-5 (ppm)
Manganese(Mn)	0-5 (ppm)
Molybdenum(Mo)	0-5 (ppm)
Sodium(Na)	0-50 (ppm)
Nickel(Ni)	0-5 (ppm)
Lead(Pb)	0-5 (ppm)
Strontium(Sr)	0-5 (ppm)
Zinc(Zn)	0-5 (ppm)
Arsenic traces(MHS-AAS)	0-0.1 (ppm)
Chloride (Cl-)	0-50 (ppm)
Sulfate(SO ₄)	0-50 (ppm)
DNAseS, RNAseS, ProteaseS, PhosphateS Not Detectable	Pass
Solubility(1M in H ₂ O)Clear Colorless	pass



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Parameter

PH(1M in H₂O)

Residue (filter test)

UV Absorbance 260nm(at 1M in H₂O)

UV Absorbance 280nm(at 1M in H₂O)

Lead(Pb)

Limit Values

2.5-4

no residue

0-0.02

0-0.01

0-5 (ppm)