

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Specification Sheet

Product Name: **MES monohydrate**
Specifications & Purity: UltraBio™, Suitable for molecular biology, Ultra pure, ≥99.5%(T)
SKU #: **M432121**

Parameter	Limit Values
Appearance(M432121)	Colorless Or White Powder Or Crystals
Purity(Titration by 0.1M NaOH)	99-100.5 (%)
Water by Karl Fischer	0-9 (%)
Sulfated Ash	0-0.05 (%)
Proton NMR spectrum	Conforms to Structure
Aluminium(Al)	0-5 (ppm)
Barium(Ba)	0-5 (ppm)
Bismuth(Bi)	0-5 (ppm)
Calcium(Ca)	0-20 (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)
Extraneous Activities(DNAses, RNAses, Proteases, Phosphatases)	Not Detectable
PH(25 °C, 0.5 M in Water)	2.5-4
Residue (filter test)	no residue
UV Absorbance 260nm	0-0.03
UV Absorbance 280nm	0-0.02