

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

Certificate of Analysis

Date of Testing: 2024-12-16 16:23:11

Date of Next Testing: 2028-12-15 16:23:11

Product Name: **MES**

CAS Number: 4432-31-9

Specifications & Purity: for plant cell culture, ≥99.5%

Lot #: B2122232

SKU #: **M108952**

Version: **2**

Analysis #: **450183**

Storage Temperature: Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	0.20000 %
PH(25 °C, 0.5 M in Water)	2.5-4	3.00000
Total aerobic microbial count (TAMC)	0-100 (cfu/g)	0.00000 cfu/g
Endonuclease Detection	0-0.1 (EU/g)	0.04000 EU/g
Ignition Residue (as sulfate)	0-0.05 (%)	0.02000 %
useful PH range	5.7-6.9	5.80000
Purity(titration by NaOH)(anhydrous basis)	99.5-100.5 (%)	100.00000 %
Appearance (M108952)	White powder or crystal or granule	White powder or crystal or granule
DNases	none detected	none detected
Insoluble matter	pass	Pass
phosphatases	none detected	none detected
Plant cell culture test	pass	Pass
proteases	none detected	none detected
RNases	none detected	none detected
Solubility in H ₂ O , soluble , 1M , 20°C, clear, colorless	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure



QualityAssurance@aladdinsci.com

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A handwritten signature in black ink that reads "John Su".

John Su
QA & QC Manager