

Certificate of Analysis

Date of Testing:	2022-09-26 17:06:28
Date of Next Testing:	2026-09-25 17:06:28
Product Name:	MES
CAS Number:	4432-31-9
Specifications & Purity:	for plant cell culture, ≥99.5%
Lot #:	I2219131
SKU #	M108952
Analysis:	126232
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Water by Karl Fischer	0-5 (%)	1.24 %
PH(25 °C, 0.5 M in Water)	2.5-4	3.08
Total aerobic microbial count (TAMC)	0-100 (cfu/g)	33.69 cfu/g
Endonuclease Detection	0-0.1 (EU/g)	0.04 EU/g
Ignition Residue (as sulfate)	0-0.05 (%)	0.03 %
useful PH range	5.7-6.9	6.18
Purity(titration by NaOH)(anhydrous basis)	99.5-100.5 (%)	99.51000 %
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 H2O , soluble , 1M , 20°C, clear, colorless	pass	Pass
Proton NMR spectrum	Conforms to structure	Conforms to Structure
Appearance (M108952)	White powder or crystal or granule	White powder or crystal or granule



ALADDIN SCIENTIFIC CORPORATION

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A handwritten signature in black ink that reads "John Su". The signature is written in a cursive, flowing style.

John Su
QA & QC Manager