

Certificate of Analysis

Date of Testing:	2023-01-29 10:55:30
Date of Next Testing:	2027-01-28 10:55:30
Product Name:	HEPES sodium salt
CAS Number:	75277-39-3
Specifications & Purity:	for cell culture, ≥99.5%(T)
Lot #:	A2309498
SKU #	H100306
Version	2
Analysis #:	034587
Storage Temperature:	Room temperature

Parameter	Limit Values	Result
Endonuclease Detection	0-0.1 (EU/g)	0.05 EU/g
Water by Karl Fischer	0-3 (%)	1.80 %
standard plate count	0-100 (cfu/g)	36.00 cfu/g
Heavy metal (as Pb)	0-5 (ppm)	2.00 ppm
Iron(Fe)	0-5 (ppm)	3.00 ppm
Purity(Titration)	99.5-100.5 (%)	100.49 %
UV Absorbance 260nm(c = 1 M)	0-0.4	0.12
UV Absorbance 280nm(c = 1 M)	0-0.2	0.06
Appearance (H100306)	White powder	White powder
Cell Culture Test	pass	Pass
DNase, RNase and Protease	None Detected	none detected
Solubility in H ₂ O , Colorless and clear(500mg/ml)	pass	Pass
λ,0.1 M in H ₂ O	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

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

John Su
QA & QC Manager