

## Certificate of Analysis

Date of Testing:	2023-02-13 18:02:36
Date of Next Testing:	2027-02-12 18:02:36
Product Name:	<b>HEPES sodium salt</b>
CAS Number:	75277-39-3
Specifications & Purity:	for cell culture, ≥99.5%(T)
Lot #:	B2308382
SKU #	<b>H100306</b>
Version	<b>2</b>
<b>Analysis #:</b>	<b>034587</b>
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 <sub>2</sub> O , Colorless and clear(500mg/ml)	pass	Pass
λ,0.1 M in H <sub>2</sub> O	Pass	Pass
Infrared spectrum	Conforms to Structure	Conforms to Structure



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

John Su  
QA & QC Manager