

ALADDIN SCIENTIFIC CORPORATION

14078 Meridian Parkway, Riverside, CA. 92518

## Certificate of Analysis

Date of Testing: 2024-08-24 10:18:00  
Date of Next Testing: 2027-08-24 10:18:00  
Product Name: **HEPES buffer solution**  
CAS Number: 7365-45-9  
Specifications & Purity: 1 M in H<sub>2</sub>O  
Lot #: H2422053  
SKU #: **H433402**  
Version: **1**  
Analysis #: **400024**  
Storage Temperature: Protected from light

Parameter	Limit Values	Result
Density(D <sub>20</sub> /4°C)	1.071-1.075	1.07
Refractive index n <sub>20</sub> /D	1.370-1.372	1.37
PH(Neat at 25°C)	5.0-6.0	5.20
Concentration	0.9-1.1 (mol/L)	1.00 mol/L
Appearance(H433402)	Colorless Liquid	Colorless liquid
NMR Spectrum 1H	Conforms to structure	Conforms to Structure
extraneous Activities DNAses, RNAses, Proteases, Phosphatases Not Detectable	Pass	Pass
Residue (filter test)	no residue	no residue



John Su  
QA & QC Manager