



Specification

HEPES Free Acid 99.5%

Catalog Number: HA1002
CAS Number: 7365-45-9
Synonym(s): 4-(2-Hydroxyethyl)piperazine-1-ethanesulfonic acid
Molecular Formula: C₈H₁₈N₂O₄S
Molecular Weight: 238.1
Storage: 15°C – 30°C
Retest Period: Three years from date of manufacture*

Test	Specification
Appearance	White crystalline powder
Assay (Titration)	≥ 99.5%
Identification (FTIR)	To match reference spectra
Absorbance (1M)	
250nm*	≤ 0.20
260nm*	≤ 0.05
280nm*	≤ 0.08
pH (5% Solution)	5.0 – 6.5
pKa (@25°C)	7.45 – 7.65
Solubility (1M)	Clear & colorless
Moisture (KF)	≤ 0.1%
Residue on Ignition	≤ 0.5%
Sulfate	≤ 0.05%
Heavy Metals	≤ 5ppm
Iron	≤ 5ppm
DNase	Not detected
RNase	Not detected
Protease	Not detected
Endotoxin (0.2%)	≤ 0.10EU/mL

Approved:

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