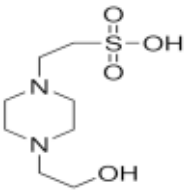
3050 Spruce Street, Saint Louis, MO 63103, USA
Website: www.sigmaaldrich.com
Email USA: techserv@sial.com
Outside USA: eurtechserv@sial.com

Product Specification

Product Name:
HEPES – BioPerformance Certified, ≥99.5% (titration), suitable for cell culture

Product Number:	**H4034**
CAS Number:	7365-45-9
MDL:	MFCD00006158
Formula:	C8H18N2O4S
Formula Weight:	238.30 g/mol



TEST	Specification
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity) 500 mg/ml, H2O	Clear
Infrared spectrum	Conforms to Structure
Water (by Karl Fischer)	≤ 0.1 %
A290 UV absorbance 33% W/W	≤ 0.05
Titration with NaOH Anhydrous	≥ 99.5 %
ICP-MS (Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	≤ 5 ppm
A260 UV Absorption 0.1 M	≤ 0.05
A280 UV Absorption 0.1 M	≤ 0.05
Iron (Fe)	≤ 5 ppm
DNase, Exonuclease Detection	None Detected
NICKase,Endonuclease Detection	None Detected
RNase Detection	None Detected
Protease Detection	None Detected
Total Aerobic Microbial Count	≤ 100 CFU/g
Cell Culture Test	Pass
Endotoxin Level	≤ 0.1 EU/mg

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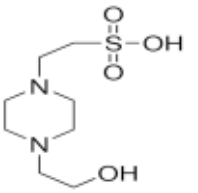

TEST	Specification
Recommended Retest Period 4 years	----------

Specification: PRD.5.ZQ5.10000039579