

3050 Spruce Street, Saint Louis, MO 63103, USA

Website: www.sigmaaldrich.com

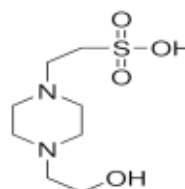
Email USA: techserv@sial.com

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)	Clear
500 mg/ml, H ₂ O	
Infrared spectrum	Conforms to Structure
Water (by Karl Fischer)	≤ 0.1 %
A290 UV absorbance	≤ 0.05
33% W/W	
Titration with NaOH	≥ 99.5 %
Anhydrous	
ICP-MS	≤ 5 ppm
(Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	
A260 UV Absorption	≤ 0.05
0.1 M	
A280 UV Absorption	≤ 0.05
0.1 M	
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

Sigma-Aldrich warrants, that at the time of the quality release or subsequent retest date this product conformed to the information contained in this publication. The current Specification sheet may be available at Sigma-Aldrich.com. For further inquiries, please contact Technical Service. Purchaser must determine the suitability of the product for its particular use. See reverse side of invoice or packing slip for additional terms and conditions of sale.

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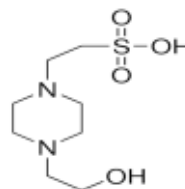
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**TEST****Specification**

Recommended Retest Period

4 years

Specification: PRD.5.ZQ5.10000039579

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