

Product Specification

Product Name:

HEPES - PharmaGrade, Manufactured under appropriate controls for use as a raw material in pharma or biopharmaceutical production, suitable for cell culture

Product Number:

PHG0001

CAS Number:

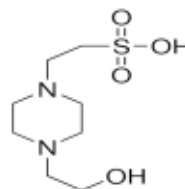
7365-45-9

Formula:

C₈H₁₈N₂O₄S

Formula Weight:

238.30 g/mol


TEST
Specification

Appearance (Color)	White
Appearance (Form)	Powder
Solubility (Color)	Colorless
Solubility (Turbidity)	Clear
1 M in H ₂ O	
Infrared spectrum	Conforms to Structure
Water (by Karl Fischer)	≤ 0.5 %
Assay	≥ 99.5 %
(anhydrous basis)	
pH	4.7 - 5.3
1% in H ₂ O	
Residue on ignition (Ash)	≤ 0.1 %
UV Absorbance 260nm	≤ 0.05
1 M in H ₂ O	
UV Absorbance 280nm	≤ 0.04
1 M in H ₂ O	
Aluminum (Al)	≤ 5.0 ppm
Bismuth (Bi)	≤ 5.0 ppm
Lead (Pb)	≤ 5.0 ppm
Barium (Ba)	≤ 5.0 ppm
Cadmium (Cd)	≤ 5.0 ppm
Copper (Cu)	≤ 5.0 ppm
Zinc (Zn)	≤ 5.0 ppm
Cobalt (Co)	≤ 5.0 ppm

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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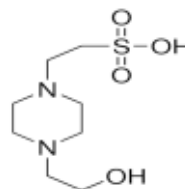
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Calcium (Ca)	≤ 30.0 ppm
Chromium (Cr)	≤ 5.0 ppm
Magnesium (Mg)	≤ 5.0 ppm
Manganese (Mn)	≤ 5.0 ppm
Iron (Fe)	≤ 5.0 ppm
Lithium (Li)	≤ 5.0 ppm
Molybdenum (Mo)	≤ 5.0 ppm
Nickel (Ni)	≤ 5.0 ppm
Arsenic (As)	≤ 3.0 ppm
Antimony (Sb)	≤ 5.0 ppm
DNase, Exonuclease Detection	Pass
NICKase, Endonuclease Detection	Pass
RNase Detection	Pass
Protease Detection	Pass
Endotoxin	≤ 50 EU/g
Total Aerobic Microbial Count	≤ 100 CFU/g
Total Yeast and Mold	≤ 100 CFU/g
Cytotoxicity	Pass
TLC	Pass
(One Spot)	
Methanol	≤ 3000 ppm
(Solvent content by GC)	
Recommended Retest Period	-----
4 years	

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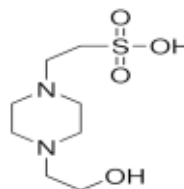
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Specification: PRD.2.ZQ5.10000042291

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