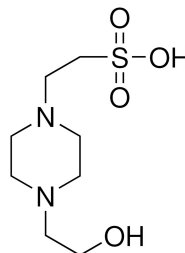


## Product Specification

<b>Product Name :</b>	<b>HEPES BioPerformance Certified, ≥99.5% (titration), suitable for cell culture</b>
<b>Product Number:</b>	H4034
<b>CAS Number:</b>	7365-45-9
<b>MDL Number :</b>	MFCD00006158
<b>Molecular Formula:</b>	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
<b>Formula Weight:</b>	238.30 g/mol



Test	Specification
A260 UV Absorption 0.1 M	≤ 0.05
A280 UV Absorption 0.1 M	≤ 0.05
Iron (Fe)	≤ 5ppm
DNase, Exonuclease Detection	None Detected
NICKase, Endonuclease Detection	None Detected
RNase Detection	None Detected
Protease Detection	None Detected
Total Aerobic Microbial Count	≤ 100CFU/g
Cell Culture Test	Pass
Endotoxin Level	≤ 0.1EU/mg
Appearance (Color)	White
Appearance (Form)	Crystalline Powder
Solubility (Color)	Colorless
Solubility (Turbidity) 500 mg/ml, H <sub>2</sub> O	Clear
A290 UV absorbance 33% W/W	≤ 0.05

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](http://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.

Version Number: PRP.00.ZQ5.1206906

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Product Name: HEPES

Product Number: H4034-BULK

Test	Specification
Water (by Karl Fischer)	≤ 0.1%
ICP-MS (Total: Ag, As, Bi, Cd, Cu, Hg, Mo, Pb, Sb, Sn)	≤ 5ppm
Titration with NaOH Anhydrous	≥ 99.5%
Infrared Spectrum	Conforms to Structure
Expiration Dated Product	-----

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](http://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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