



Material	VWRB30487-5KG
Material description	HEPES (4-(2-Hydroxyethyl)piperazin-1-ylethanesulphonic acid)
CAS Number	7365-45-9
Molecular formula	C <sub>8</sub> H <sub>18</sub> N <sub>2</sub> O <sub>4</sub> S
Molecular mass	238.31
Storage	Store between 15 °C and 30 °C.

Characteristics	Specifications
Assay (titration)	≥ 99.5 %
Appearance	White crystalline powder
DNases	None detected
Identification (IR)	Conforms to structure
Proteases	None detected
RNases	None detected
Solubility in water (1 mol/l)	Clear,colorless,complete
pKa (20°C)	7.45 - 7.65
Heavy metals (as Pb)	≤ 5 ppm
Residue on ignition	≤ 0.3 %
Water (KF)	≤ 0.5 %
Ca (Calcium)	≤ 5 ppm
Cu (Copper)	≤ 5 ppm
Fe (Iron)	≤ 5 ppm
Mg (Magnesium)	≤ 5 ppm
Mn (Manganese)	≤ 5 ppm
Absorbance (260 nm) (1 mol/l)	≤ 0.10
Absorbance (280 nm) (1 mol/l)	≤ 0.10
Bioburden	≤ 100 CFU/g
Cell culture toxicity (@ 12 g/l)	Passes test
Endotoxin (0.2 %)	≤ 0.1 EU/mg
Country of origin	USA
Source (non-animal/non-human derived)	Confirmed



# Product Specification



## Signature

We certify that this batch conforms to the specifications listed above.

This document has been produced electronically and is valid without a signature.

Susan Marra, Quality Assurance Manager - Sanborn  
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