



# Product Specification



Material	VWRB30487-1KG
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)	Min. 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)	Max. 5 ppm
Residue on ignition	Max. 0.3 %
Water (KF)	Max. 0.5 %
Ca (Calcium)	Max. 5 ppm
Cu (Copper)	Max. 5 ppm
Fe (Iron)	Max. 5 ppm
Mg (Magnesium)	Max. 5 ppm
Mn (Manganese)	Max. 5 ppm
Absorbance (260 nm) (1 mol/l)	Max. 0.10
Absorbance (280 nm) (1 mol/l)	Max. 0.10
Bioburden	Max. 100 CFU/g
Cell culture toxicity (@ 12 g/l)	Passes test
Endotoxin (0.2 %)	Max. 0.1 EU/mg
Country of origin	USA
Source (non-animal/non-human derived)	Confirmed

For Professional use in Laboratory or Manufacturing. Not for use as an Active Pharmaceutical Ingredient or Food or Animal Feed. Suitability and intended use of the product remains the responsibility of the user.



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## 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  
VWR Chemicals, LLC; 6351 East Inducon Drive; Sanborn; NY  
14132; USA