## INDOFINE Chemical Company, Inc.

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## Certificate of Analysis

Catalogue Number

BIO-200

Product

4-(2-Hydroxyethyl)-1-piperazineethanesulfonic

acid

Lot Number

001135-0420408

**HEPES** 

**CAS Number** 

7365-45-9

Molecular Formula

 $C_8H_{18}N_2O_4S$ 

Molecular Weight

238.3

Appearance

White powder

Solubility

Clear and complete (0.1M in Water)

pH

5.3 (5% Solution in H<sub>2</sub>O)

pKa

7.54 (25 °C)

Loss on Drying

0.1%

Ash

< 0.1%

Assay by titration

99.9% (Dry basis)

Application

Non-toxic to cell. It is used as a hydrogen ion buffer, which can control

the constant pH range for long term. The concentration is

10-50mmol/L. Generally, 20mmol/LHEPES in nutrient solution

can get buffer ability.

Storage

Store at RT

**Additional Information** 

UV absorbance (1M in Water) at 260 nm: 0.0181 UV absorbance (1M in Water) at 280 nm: 0.0107

UV absorbance (33% in Water) at 290 nm: 0.0148