

BES buffer free acid

Cell culture Tested

Product Code: TC042

Product Description :

Molecular Formula: $C_6H_{15}NO_5S$

Molecular Weight: 213.25

CAS No.: 10191-18-1

Synonyms: N,N-bis [2-Hydroxyethyl]-2-aminoethanesulfonic acid

BES buffer is a zwitterionic biological buffer used in bio-chemistry, cell culture and molecular biology. It has a pKa of 7.15 at 25°C and a useful buffering range of 6.40- 7.80. BES is one of the 'Good' buffers selected by Dr Norman Good and colleagues in 1966 and has the following properties.

- . Maximum solubility in water and minimum solubility in other buffers.
- . Low contribution of ions to the medium.
- . pKa is minimally influenced by buffer concentration, temperature and ionic constitution of the medium.
- . Forms soluble complexes with metal.
- . Resists enzymatic and non-enzymatic alterations and does not react with any component of the medium.
- . Does not absorb light at wavelength longer than 230nm.
- . Is easy to prepare and easy to purify.

Directions :

Preparation Instructions

BES buffer free acid is completely soluble in water at 500mg/ml.

Quality Control:

Appearance

White crystalline powder.

Solubility

Clear colorless solution at 50gm in 100ml of water .

pH of 1 M solution

2.50 -5.00

Heavy metal (as Pb)

NMT 0.0005%

Residue on Ignition

NMT 0.01%

Assay

NLT 99%

Cell Culture Test

Passes

Storage and Shelf Life:

Store at 15-30°C.

Shelf life of the product is 48 months.

Use before expiry date given on the product label.

Disclaimer :

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