

Product Information

HEPES

CATALOG NO. 90909C

Description

HEPES (N-2-hydroxyethylpiperazine-N'-2-ethanesulfonic acid) is used in many media because it has more buffering capacity in the physiological pH range of 7.2 - 7.4 at 37 C than sodium bicarbonate. It is commonly added at concentrations of 10 mM - 25mM. Higher levels cause cytotoxicity. Because bicarbonate is nutritionally necessary for most cells, HEPES should be added in addition to, not in place of, sodium bicarbonate.

Precautions

This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Storage

To effectively preserve the integrity of HEPES in dry powder form, it should be stored at the recommended temperature and protected from light. For stability and optimal performance, this product should be stored at 15 to 30 C. Do not use after the expiration date.

Indications of Deterioration

Dry powder should be free flowing. Do not use if powder is caked. Prepared solution should be clear of particulate and flocculent materials. Other evidence of deterioration may include color change as well as degradation of physical or performance characteristics.

Characteristics

Appearance

White free-flowing powder

Bioburden

< 100 CFU/g

Endotoxin (LAL)

≤ 0.04 EU/mg

pH

4.8 - 5.3, 1% solution at 25 C

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