



Technical data sheet

HEPES BUFFER 1 M

W/O Phenol Red

Cat. No.: HB-410

Theoretical pH: 7.3 ± 0.3

Osmolality: > 1000 mOsm/kg

Color: Colourless, clear solution

Storage conditions: Room temperature

Shelf life: 36 months

Sterility: Sterile filtered

Endotoxin: < 1 EU/ml

Composition: Available on request

Recommended use:

- Respect storage conditions of the product.
- Do not use the product after its expiry date.
- Do not use the product packaging appears damaged or if the seal is broken.
- Store product in an area protected from light.
- Manipulate the product in aseptic conditions (e.g.: under laminar air flow).
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g.: gloves, mask, hygiene cap, overall, ... etc.).
- The product is intended to be used in vitro, in laboratory only.
- Do not use it in therapy, human or veterinary applications.

Application:

- HEPES is used in many media because it has more buffering capacity than sodium bicarbonate at physiological pH (7.2 - 7.4) at 37°C.
- Sodium bicarbonate is nutritionally necessary for most cells, so HEPES should be added in addition to, not in place of, sodium bicarbonate.
- It is commonly added at 10 – 25 mM concentrations (higher levels may cause cytotoxicity).

Indications of deterioration:

- Medium should be clear and free of particulate and flocculent material.
- Do not use, if medium is cloudy or contains precipitate.
- Other evidence of deterioration may include color change or degradation of physical or performance characteristics.
