ClearLine	Technical data sheet Media Liquid	Ref : 509110

Hanks' Balanced Salt Solution (HBSS)

w/o Calcium w/o Magnesium w/ Sodium Bicarbonate w/ Phenol Red

Storage

Shelf life: 48 months

Composition: Displayed on website; also available on request

Colour: red, clear solution

pH: 7.3 ± 0.3

Osmolality: 280 mOsm/kg +/- 10%

Endotoxin: < 1 EU/ml

Sterility tests:
- Bacteria in aerobic and anaerobic conditions
- Fungi and yeasts

Cell Growth test: Not applicable

Other tests: Not applicable

Recommended use:
- Respect storage conditions of the product
- Do not use the product after its expiry date
- Store product in an area protected from light (not necessary for saline solutions).
- 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…)

The product is intended to be used in vitro for research or further manufacturing only and not for use as an Active Pharmaceutical Ingredient or food or animal feed.

Application:
Hanks' Balanced Salt Solution (HBSS) is intended for use in the maintenance of mammalian cells where a chemically defined, balanced salt solution provides an environment that will maintain the structural and physiological integrity of cells *in vitro.*
In summary, the roles of a balanced salt solution are :
- maintenance of intra and extra cellular osmotic balanced
- provision of water and inorganic ions essential for cells metabolism
- provision of energy for cells metabolism thanks to glucose
- buffer effect to maintain the environment in physiological conditions of pH (7.2 – 7.6)

Hanks' salts are designed for maintenance of cells in ambient (non CO_2) atmospheric conditions.
HBSS modified (without calcium, without magnesium) is frequently used to wash and resuspend cells during the dissociation process, where the presence of calcium and magnesium can inhibit the enzymatic activity (trypsin).

DOMINIQUE DUTSCHER SAS

Uses: Not applicable

Signs of Deterioration:
Buffer solution should be clear and free of particulate and flocculent material.
Do not use if buffer solution is cloudy or contains precipitate.
Other evidence of deterioration may include colour change or degradation of physical or performance characteristics.

Remarks: Not applicable

DOMINIQUE DUTSCHER SAS