

Product Information

Hanks' Balanced Salt Solution

HBSS Modified, with phenol red, without calcium, without magnesium

CATALOG NO. 55021C

Description

Hanks' Balanced Salt Solution (HBSS) is designed for use with cells maintained in non-CO₂ atmospheric conditions. For cell dissociation procedures, use HBSS Modified, which is formulated without calcium and magnesium salts.

Formulation

Component (all components measured in mg/L)	
INORGANIC SALTS	
Potassium chloride	400.000
Potassium phosphate monobasic anhydrous	60.000
Sodium bicarbonate	350.000
Sodium chloride	8000.000
Sodium phosphate dibasic heptahydrate	90.000
OTHER	
Dextrose anhydrous	1000.000
Phenol red sodium salt	10.620

Precautions

Use aseptic technique when handling or supplementing this buffer after filtration. This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

Storage

Store medium at 15 to 30 C. Do not use after the expiration date.

Indications of Deterioration

Buffer should be clear of particulates and flocculent material. Do not use if liquid buffer is cloudy or contains precipitate. Other evidence of deterioration may include color change or degradation of physical or performance characteristics.

Preparation Instructions

Supplements, such as antibiotics, can be added to the sterilized solution using aseptic technique. Storage conditions and shelf life of the supplemented product may be affected by the nature of the supplements.

Characteristics

Appearance

Clear red solution

Endotoxin (LAL)

≤ 1.0 EU/mL

Osmolality (as supplied)

260 - 300 mOsm/kg H₂O

pH (as supplied)

7.0 - 7.4

Sterility

No microbial growth detected

References

1. Hanks, J. H. and Wallace, R. E., *PSEBM* (1949) 71:196.

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