

Product Information

Hanks' Balanced Salt Solution

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

CATALOG NO. 55025C

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

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 colorless 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

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

United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA
Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail info-na@sial.com

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM
Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA
Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com

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United States

SAFC Biosciences, Inc.
13804 W. 107th Street
Lenexa, Kansas 66215
USA
Phone +1 913-469-5580
Toll free-USA 1 800-255-6032
Fax +1 913-469-5584
E-mail info-na@sial.com

Europe

SAFC Biosciences Ltd.
Smeaton Road, West Portway
Andover, Hampshire SP10 3LF
UNITED KINGDOM
Phone +44 (0)1264-333311
Fax +44 (0)1264-332412
E-mail info-eu@sial.com

Asia Pacific

SAFC Biosciences Pty. Ltd.
18-20 Export Drive
Brooklyn, Victoria 3025
AUSTRALIA
Phone +61 (0)3-9362-4500
Toll free-AUS 1 800-200-404
Fax +61 (0)3-9315-1656
E-mail info-ap@sial.com