

Product Information

Earle's Balanced Salt Solution

with phenol red

CATALOG NO. 55114C

Description

Earle's Balanced Salt Solution (EBSS) is designed for use with cells maintained in a CO₂ environment.

Formulation

Component (all components measured in mg/L)	
INORGANIC SALTS	
Calcium chloride dihydrate	264.900
Magnesium sulfate heptahydrate	200.000
Potassium chloride	400.000
Sodium bicarbonate	2200.000
Sodium chloride	6800.000
Sodium phosphate monobasic monohydrate	140.000
OTHER	
Dextrose anhydrous	1000.00
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

270 - 310 mOsm/kg H₂O

pH (at 25 C)

7.0 - 7.4

Sterility

No microbial growth detected

References

1. Earle, W. R., Schilling, E. L., et al., *J. Nat. Can. Inst.* (1943) 4:165.

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