

1. Identification

Product name Earle's Balanced Salt Solution 10x w/ Phenol red w/o Sodium bicarbonate

Catalog.no CCBL009

2. Description

Earle's Balanced Salt Solution (EBSS) is a buffer system designed to support pH stability and osmotic balance in cell culture and in vitro experiments. It contains sodium bicarbonate as a buffering agent to mimic physiological conditions. EBSS provides essential ions like sodium, potassium, calcium, and magnesium, crucial for cellular functions. It is commonly used for washing cells, diluting reagents, and temporary maintenance of cells outside complete media. The solution is isotonic, ensuring cell viability during short-term procedures. EBSS is suitable for a range of applications, including microscopy and enzymatic dissociation. Store at 2–8°C to maintain stability and protect from light. Avoid extended exposure to ambient temperatures to prevent pH changes.

3. Product Specifications

Appearance	Clear Red Color Solution
Storage and shelf life	Store at +2°C to +8°C protected from light. Once opened, store at 4°C and use within 6-8 weeks.
Shipping conditions	Ambient

4. Formulation

Components	Concentration mg/L
Inorganic Salts	
Calcium Chloride [CaCl ₂ .2H ₂ O] Dihydrate	2650.00
Magnesium Sulfate [MgSO ₄]	977.70
Potassium Chloride [KCl]	4000.00
Sodium Chloride [NaCl]	68000.00
Sodium Phosphate Monobasic [NaH ₂ PO ₄] (anhyd)	1220.00
Others	
Dextrose	10000.00
Phenol red	110.00

5. Precautions and Disclaimer

This product is for research use only. Please consult the Material Safety Data Sheet for information regarding hazards and safe handling practices.