

1. Identification

Product name **Hanks' Balanced Salt Solution 1X w/ 10mM HEPES and Sodium bicarbonate w/o Calcium, Magnesium and Phenol red**

Catalog.no **CCBL040**

2. Description

Hanks' Balanced Salt Solution (HBSS) is a widely used balanced salt formulation designed to maintain physiological pH and osmotic balance during cell culture handling procedures. This specific formulation contains 10 mM HEPES and sodium bicarbonate as buffering agents, providing superior pH stability both inside and outside CO₂ incubators.

The absence of calcium and magnesium ions makes this formulation ideal for applications where cell adhesion or aggregation needs to be minimized, such as during cell dissociation or washing steps. Additionally, the omission of phenol red eliminates potential interference in colorimetric or fluorescence-based assays, making it suitable for sensitive experimental procedures.

3. Product Specifications

Appearance	Clear colorless Solution
Storage and shelf life	Store at room temperature protected from light.
Shipping conditions	Ambient

4. Formulation

Components	Concentration mg/L
Inorganic Salts	
Potassium Chloride [KCl]	400.00
Sodium Bicarbonate [NaHCO ₃]	350.00
Sodium Chloride [NaCl]	8000.00
Disodium hydrogen phosphate	48.00
Potassium dihydrogen phosphate anhydrous	60.00
Others	
Dextrose	1000.00
HEPES	2380.00

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.