

Rev.ver: 01

1. Identification

Product name	Hanks' Balanced Salt Solution 10x w/ Phenol red w/o Sodium bicarbonate
Catalog.no	CCBL017

2. Description

Hank's Balanced Salt Solution (HBSS) is a buffered salt solution commonly used in cell culture and tissue-handling procedures to maintain physiological pH and osmotic balance. It contains essential inorganic salts such as sodium chloride, potassium chloride, calcium chloride, magnesium sulfate, sodium bicarbonate, sodium phosphate, and glucose, which together help sustain cell metabolism and viability outside the body. HBSS provides a stable environment for cells by mimicking the ionic composition of body fluids, maintaining a pH around 7.2 to 7.4. It is widely used for washing, diluting, or transporting cells and tissues, and also serves as a base for preparing media or reagents in biological and biochemical experiments.

3. Product Specifications

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

4. Formulation

Components	Concentration mg/L
Inorganic Salts	
Magnesium Sulfate [MgSO ₄]	977.20
Potassium Chloride [KCl]	4000.00
Sodium Chloride [NaCl]	8000.00
Disodium hydrogen phosphate	480.00
Potassium dihydrogen phosphate anhydrous	600.00
Calcium chloride.2H ₂ O	1854.10
Others	
D-Glucose (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.