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1. Identification**Product name** **Hanks' Balanced Salt Solution 1X w/ Sodium bicarbonate w/o Phenol red****Catalog.no** **CCBL013****2. Description**

Hanks' Balanced Salt Solution (HBSS) is a buffered, balanced salt formulation designed to maintain physiological pH and osmotic balance in cell culture systems. It provides essential inorganic ions that support cell metabolism and integrity during washing, transport, and short-term maintenance of cells and tissues outside the incubator.

This formulation contains sodium bicarbonate as a buffering component to help maintain pH under a CO₂ atmosphere and is free from phenol red, making it suitable for sensitive or colorimetric assays where indicator dyes may interfere with results.

3. Product Specifications

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

DATA SHEET

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4. Formulation

Components	Concentration mg/L
Inorganic Salts	
Calcium Chloride [CaCl ₂ 2H ₂ O] Dihydrate	185.410
Magnesium Sulfate [MgSO ₄]	97.72
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

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.