

Rev.ver: 01

1. Identification

Product name **Krebs-Ringer Phosphate HEPES Buffer pH 7.4 w/ 20mM HEPES buffer, Calcium and Magnesium w/o Phenol red.**

Catalog.no **CCBL024**

2. Description

Krebs–Ringer Phosphate HEPES Buffer (pH 7.4) is a physiological salt solution designed to maintain cells and tissues under near-natural conditions. It contains essential ions such as sodium, potassium, calcium, magnesium, chloride, and phosphate to support osmotic balance and cellular function. The HEPES component acts as a biological buffer, maintaining a stable pH of 7.4 without the need for CO₂ regulation. This buffer is widely used in cell culture, tissue perfusion, and biochemical assays, providing a stable environment that preserves cell viability and metabolic activity during experiments.

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	
Magnesium sulfate heptahydrate	120.370
Potassium Chloride [KCl]	350.385
Sodium Chloride [NaCl]	7947.000
Potassium dihydrogen phosphate	680.000
Calcium chloride dihydrate	147.010
Others	
HEPES free acid	4766.000

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.