

Krebs-Ringer Bicarbonate Buffer

Cell Culture- Balanced Salt Solution

Catalog Number: CC021

Description: Krebs-Ringer Bicarbonate Buffer has a variety of laboratory uses including tissue cell culture, washing, primary cell preparation and bioassays. The salts in this buffer provide water and inorganic ions to the cells, which in turn maintains osmotic balance and the desired pH in the culture medium. All media used in tissue culture are based on synthetic mixtures of inorganic salts, which are known as physiological or balanced salt solutions (BSS).

The function of Krebs-Ringer Bicarbonate Buffer solution:

- To maintain the medium within the physiological pH range.
- To maintain intracellular and extracellular osmotic balance.
- Modified with a carbohydrate as an energy source for cell metabolism.

This product is a 1X Krebs-Ringer solution containing magnesium chloride buffered with sodium bicarbonate. This buffer contains dextrose.

Formulation: Sterile filtered

Endotoxin: <0.5 EU/mL

Pack Size: 500 mL

Storage/Stability: 2-8°C for minimal three years from date of manufacture.

Components:

Ingredients	g/L
D-Glucose	1.8
Magnesium Chloride [Anhydrous]	0.0468
Potassium Chloride	0.34
Sodium Chloride	7.0
Sodium Phosphate Dibasic [Anhydrous]	0.1
Sodium Phosphate Monobasic [Anhydrous]	0.18
Sodium Bicarbonate	1.26

Specification

pH (after buffer)	7.3+0.2
Osmolality (mOsm)	270±15

References: Krebs HA and Henseleit K. Studies on urea formation in the animal organism. Hoppe-Seylers Z. Physiol. Chem. 210:33-66, 1932.

FOR RESEARCH USE ONLY, NOT FOR USE IN DIAGNOSTIC AND THERAPEUTIC PROCEDURES

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