

Ringer's Solution (Mammal-specific)

Cat. No.: R1509649 | Pack size: 500 mL | Storage: Room temperature

Overview

Ringer's Solution (Mammal-specific), also known as Ringer's Solution or Compound Sodium Chloride Solution, is a type of Balanced Salt Solution (BSS). BSS matches the environmental conditions such as pH value and osmotic pressure required for cell growth. It functions to maintain osmotic pressure, regulate acid-base balance, and supply essential inorganic salt components for cell survival and metabolism, thus meeting the basic needs of cell survival and sustained metabolism in in vitro experiments.

Ringer's Solution consists of 0.86% sodium chloride, plus trace amounts of potassium chloride and calcium chloride, and contains no glucose. It is applicable to in vitro experiments on mammalian (or human) cells, tissue perfusion, tissue washing, and maintenance of the normal physiological functions of isolated tissues. This reagent is for research purposes only and not intended for clinical diagnosis or any other applications.

Operating Procedures (For Reference Only)

Preserve or wash the isolated tissues in accordance with the specific requirements of the experiment.

Precautions

1. Ringer's Solution contains calcium ions and is prone to precipitation. If a small amount of precipitate forms, the solution can be heated to dissolve the precipitate or filtered before use. Discard the solution if a large amount of precipitate appears.
2. Please use the reagent as soon as possible after opening to avoid affecting subsequent experimental results.
3. For your safety and health, wear a lab coat and disposable gloves during operation.

Specifications

Property	Value
Synonyms	Ringer's Solution
Specifications & Purity	BioReagent, for cell culture

Property	Value
Stability And Storage	Store at room temperature long term (12 months).
Storage Conditions	Room temperature
Shipped In	Normal
Grade	BioReagent, for cell culture

Contact & Global Offices

Whether you have a technical question, need help with a quotation, or want to inquire about an order, our regional teams are ready to assist. Please contact the office for your region; for general inquiries, the North American office is the corporate primary.

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Limitations & Disclaimer

- For Research Use Only (RUO). Not for use in human or animal diagnostics, therapeutics, or in vivo applications. Not for food, cosmetic, or household use.
- This product is not a CE-marked in vitro diagnostic device under IVDR (EU) 2017/746 and is not an FDA-cleared device under 21 CFR. Use is restricted to verified businesses, institutions, and qualified professionals for research and development purposes.
- Where any kit component is classified as hazardous under CLP (EC) 1272/2008 or OSHA HCS (29 CFR 1910.1200), the product Safety Data Sheet (SDS) takes precedence over this document for handling, storage, and disposal information.
- Performance depends on sample type, sample condition, handling, and operator technique. Users are responsible for validating the product for their specific application.
- Aladdin product labels, SDS, COA, and approved specifications take precedence over this document. If product formulation, label, SDS, storage conditions, pack size, or quality specifications change, this document would be reviewed and reissued.