Locke's Solution

Cat. No.: PB180343

Size: 500mL

General Information

Product Form	Liquid
Concentration	1 ×
pH	7.2-7.4
D-Glucose	1000 mg/L
$CaCl_2$ (anhydrous)	240 mg/L
$NaHCO_3$	300 mg/L
Phenol red	Negative
Mg^{2+}	Negative
Storage	2-30°C
Shipping	Room Temperature
Expiration date	24 months

Background

Balanced Salt Solution (Physiological Solution) have the properties of buffer solution (regulate pH), normal saline (maintain osmotic pressure) and culture medium (provide nutrition). It can meet the basic needs of survival and metabolism of tissues, organs or cells in vitro. A small amount of phenolic red was added to some equilibrium salt solutions to indicate the pH change of the solution.

Locke's solution is a kind of balanced salt solution and the main components are NaCl, KCl, $CaCl_2$, $NaHCO_3$ and glucose. Locke's solution is commonly used in mammalian heart, uterus and other isolated organs. When used for irrigation, oxygen must be infused for 15 minutes before use. Locke's solution with low content calcium is used for perfusion of isolated small intestine and isolated organs of guinea pig.

Notes

1. This product is only used for scientific research or further research, not for diagnosis and treatment.
2. This product is sterilized by 0.1 μm filtration.
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.
4. Calcium ions in Locke's Solution may cause slight precipitation, which typically redissolves upon warming in a water bath. If substantial precipitate persists, discard the solution.