Tyrode's Solution

Cat. No.: PB180338

Size: 500mL

General Information

Product Form	Liquid
Concentration	1 ×
pH	7.2-7.4
D-Glucose	1000 mg/L
HEPES	Negative
$NaHCO_3$	1000 mg/L
Phenol red	Negative
$CaCl_2$ (anhydrous)	200 mg/L
$MgCl_2 \cdot 6H_2O$	214 mg/L
Storage	2-30°C
Shipping	Room Temperature
Expiration date	36 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. Tyrode's solution is a kind of balanced salt solution in biochemistry.

The main components are NaCl, KCl, NaH_2PO_4, $MgCl_2$, $CaCl_2$, $NaHCO_3$ and glucose. Tyrode's solution is often used for perfusion and tissue cleaning in the body of mammals, and is especially suitable for isolated constant-muscle experiments to maintain the normal physiological function of isolated enteromuscles.

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 and magnesium ions in Tyrode's Solution may cause slight precipitation, which typically redissolves upon warming in a water bath. If substantial precipitate persists, discard the solution.