

## Advanced Tyrode's Solution, with HEPES

Cat. No. : PB180340

Size : 500mL

### General Information

Product Form	Liquid
Concentration	1 ×
pH	7.2-7.4
D-Glucose	1000 mg/L
HEPES	5 mM
NaHCO <sub>3</sub>	Negative
Phenol red	Negative
CaCl <sub>2</sub> (anhydrous)	200 mg/L
MgCl <sub>2</sub> ·6H <sub>2</sub> O	214 mg/L
Storage	2-30°C, shading light
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.

Tyrode's solution is a kind of balanced salt solution in biochemistry. The main components are NaCl, KCl, NaH<sub>2</sub>PO<sub>4</sub>, MgCl<sub>2</sub>, CaCl<sub>2</sub>, NaHCO<sub>3</sub> 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.

HEPES was added to advanced Tyrode's solution and the buffer capacity of the solution was greatly improved.

### Notes

1. This product is for research use only.
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.