# Insulin-Transferrin-Selenium-Sodium Pyruvate (ITS-A), 100 ×

**Cat. No.: PB180430**

**Size: 10mL**

## General Information

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|---|---|
| **Product Form** | Liquid |
| **Concentration** | 100 × |
| **pH** | 7.7-8.3 |
| **HEPES** | Negative |
| **Storage** | 2-8°C |
| **Shipping** | Ice bag |
| **Expiration date** | 18 months |

## Background

Insulin (INS) is a double-stranded (α, β) polypeptide hormone secreted by islet beta cells. It is the only known hormone in the body that reduces blood sugar and simultaneously promotes glycogen, fat, and protein synthesis.

Transferrin is an indispensable component in body fluids. It is not only involved in iron transport and metabolism, respiration, cell proliferation and immune system regulation, but also can regulate iron ion balance and energy balance. And it has antibacterial and bactericidal function.

Sodium Selenite is a cofactor that provides glutathione peroxidase and other proteins and is used as an antioxidant in culture.

Originally used in combination with RPMI 1640 and Minimum Essential Medium (MEM), ITS-G solutions are now commonly used in combination with other basal medium to support multiple cell types in the presence of 2-4% FBS.

ITS is formulated with Earle balanced salt solution (EBSS). Procell offers three different ITS: ITS-G for general use; ITS-A for adherent cell culture; and ITS-X for cell types requiring aminoethanol, such as bronchial epithelial cells.

## 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. This product is 100 × concentrated solution and dilute it to to the desired concentration before use.