

## Insulin-Transferrin-Selenium (ITS-G), 100×

**Cat. No:** PB180429

**Size:** 10mL

### General Information

<b>Product Form</b>	Liquid
<b>Concentration</b>	100×
<b>pH</b>	7.2-7.4
<b>HEPES</b>	Negative
<b>Storage</b>	2-8℃
<b>Shipping</b>	Ice bag
<b>Expiration date</b>	18 months

### Background

Insulin (INS) is a polypeptide hormone in the form of double chain ( $\alpha$ ,  $\beta$ ) secreted by islet  $\beta$  cells. It is the only hormone known to reduce blood sugar and promote the synthesis of glycogen, fat and protein. Transferrin is an indispensable component in body fluids. It not only participates in the transport and metabolism of iron, but also participates in the regulation of respiration, cell proliferation and immune system. It can also regulate iron ion balance and energy balance, and has the protective function of antibacterial sterilization. Selenium, provided by sodium selenite, is a cofactor of glutathione peroxidase and other proteins used as an antioxidant in culture media.

ITS-G solution was originally used in combination with RPMI 1640 and MEM, and is now commonly used in combination with other basic media to support multiple cell type with the addition of 2-4% FBS

ITS was prepared with Earle's Balanced Salt (EBSS). Elabscience offers three different ITS types: the conventional ITS-G, ITS-A for adherent cell, and ITS-X for cell types that require aminoethanol, such as bronchial epithelial cells.

### Notes

1. This product is for research use only.;
2. This product is sterilized by 0.1 $\mu$ m filtration.;
3. It is necessary to pay attention to the aseptic operation and avoid the contamination.;
4. This product is 100×concentrated solution. Please dilute it to to the desired concentration before use.