

Insulin Transferrin Selenium Solution (100x)
ORDER INFORMATION

Name of Products: Insulin Transferrin Selenium (ITS) Solution 100x
Catalogue Number: **cAP-26**
Product Format: 10.00ml of frozen solution

Product Description:

Insulin, Transferrin, Selenium (ITS) is a chemically defined supplement for a variety of cell culture applications. ITS supplement contains components which are required for optimal performance of serum-free media. Supplementation of ITS to different conventional nutrient media substantially reduces the FBS requirement for routine maintenance of many cell lines.

INSULIN is a polypeptide hormone that promotes the uptake of glucose and amino acids and may owe observed mitogenic effect to this property. TRANSFERRIN is an iron-transport protein. Iron is an essential trace element, but can be toxic in the free form. To nourish cells in culture, it is supplied bound to transferrin in serum. SELENIUM is an essential trace element normally provided by serum.

Nutritional studies indicate that the supplement components described are utilized by most mammalian cells. They enhance cell proliferation and decrease the serum requirement of many cell types. When the provided supplement is used with 2 to 4 percent serum, proliferation is reported to be similar to medium supplemented with 10 percent serum. ITS concentrated (100x) solution (cAP-26) is formulated in Hank's Balanced Salt Solution (HBSS) without phenol red.

Formulation:

Insulin (human) 1.0 mg/ml
 Apo-Transferrin (human) 1.0 mg/ml
 Sodium Selenite 0.5ug/ml

Specifications

pH 6.8 ±0.2
 Endotoxin (EU/ml) <0.1
 Sterility Pass

Storage
Shipping

-20°C
 Dry Ice

Related Products:

Quick Coating Solution	cAP-01	240ml	Angio-Proteomie
Cell Freezing Solution (FBS)	cAP-22	50ml	Angio-Proteomie
Cell Freezing Solution (Non-FBS)	cAP-22B	50ml	Angio-Proteomie
HBSS w/o Ca ²⁺ , Mg ²⁺	cAP-11	100ml	Angio-Proteomie
Trypsin/EDTA Solution	cAP-23	100ml	Angio-Proteomie
Trypsin Neutralization Solution	cAP-28	100ml	Angio-Proteomie
ITS (100x)	cAP-26	10ml	Angio-Proteomie
L-Glutamine-MAXIMUM (100x)	cAP-27	100ml	Angio-Proteomie
Human Plasma Fibronectin Solution	cAP-42	1mg/ml	Angio-Proteomie
Bovine Type I Collagen Solution	cAP-17	100mg	Angio-Proteomie

THESE PRODUCTS ARE FOR RESEARCH USE ONLY

Caution: Handling human and animal tissue derived products is potentially bio-hazardous. Although each cell strain is tested negative for HIV, HBV and HCV DNA, or pathogens, diagnostic tests are not necessarily 100% accurate; therefore proper precautions must be taken to avoid inadvertent exposure. Always wear gloves and safety glasses when working with these materials. Never mouth pipette. We recommend following the universal procedures for handling products of human origin as the minimum precaution against contamination.