

## ITS-E Supplement 100X, Liquid

With 1mg per ml Insulin, 0.55mg per ml Human Transferrin, 0.5µg per ml Sodium Selenite and 0.2mg per ml Ethanolamine in Earle's Balanced Salt Solution Without Phenol red

**Product Code: TCL065**

### Product Description :

ITS-E supplement is a basal growth factor supplement used to reduce the serum requirements in reduced serum and serum free cell culture systems.

Insulin is a peptide hormone responsible for uptake, utilization and storage of glucose by cells. Insulin is often used as a medium supplement for cell culture in the range of 1-10µg/ml depending upon the cell type.

Transferrin is a glycoprotein responsible for delivery of iron to cells. Most of the stimulatory activity of transferrin is attributed to its own iron binding properties. Transferrin has a stimulatory effect on many cell types and is used in cell culture at a concentration of 1-10µg/ml.

Selenium is an essential trace element required for normal cell growth and development.

Ethanolamine is a fatty acid that is frequently used as a supplement to promote growth of hybridoma cells.

### Composition :

Ingredients	mg/ml
Ethanolamine	0.2000
Human Transferrin	0.5500
Insulin	1.000
Sodium selenite	0.0005

### Directions :

Recommended Usage: 10ml per litre of medium.

### Quality Control:

#### Appearance

Colorless to pale orange, clear solution.

#### pH

7.50 -8.50

#### Osmolality in mOsm/Kg H<sub>2</sub>O

280.00 -320.00

#### Sterility

No bacterial or fungal growth is observed after 14 days of incubation, as per USP specification.

#### Cultural Response

The growth promotion capacity of the solution is assessed qualitatively by analyzing the cells for the morphology and quantitatively by estimating the cell counts and comparing it with a control solution.

#### Endotoxin Content

NMT 5EU/ml

### Storage and Shelf Life:

Store the product at -20°C.

Note: Avoid repeated freeze thaw cycles. If required, once thawed make smaller aliquots and refreeze on the same day and then thaw just prior to use.

Shelf life of the product is 18 months.

Use before expiry date given on the product label.

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### Disclaimer :

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