

ITSE Animal-Free

Insulin Transferrin Selenium Ethanolamine



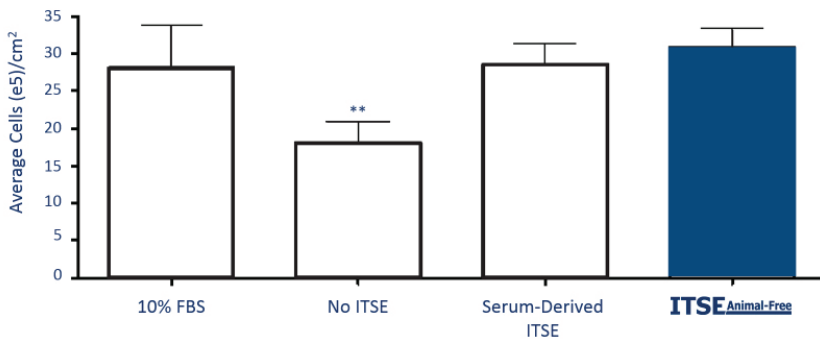
ITSE Animal-Free is a recombinant, animal-free insulin and transferrin supplement used to improve cell growth and performance in reduced serum and serum free media. ITSE Animal-Free replaces other ITS or ITSE supplements that have serum-derived proteins. For some applications, addition of Cellastim (lipid-rich recombinant albumin) will further enhance performance. ITSE Animal-Free is an IgG-free 100x sterile-filtered liquid, making it simple to use.

INVITRIA Performance. Defined.

Product Name: ITSE Animal-Free
Product Number: 777ITS032
Product Form: 100x liquid

VWR Product Numbers:
10847-714 - 10mL
75784-766 - 10 x 10mL
10847-794 - 100mL

Equivalence of ITSE Animal-Free to serum-derived ITSE



Equivalence of ITSE Animal-Free to serum-derived ITSE: VERO cells were maintained in EMEM + 10% FBS. For ITSE comparisons, VERO cells were washed thrice in DPBS to remove all traces of serum and removed from the growth surface using trypsin/EDTA. After cell detachment, trypsin was neutralized with 0.25% soybean trypsin inhibitor. Cells were pelleted and resuspended in basal DMEM/F12 and inoculated at an initial density of 5,000 cells/cm² in 48 well plates containing either DMEM/F12 + 10% FBS, or DMEM/F12, 10 mM HEPES, 10 ng/mL EGF, and 200 mg/L recombinant human serum albumin with or without 1x ITSE from either InVitria or Life Technologies. Cells were subcultured for 96 hrs and subsequently harvested and counted via flow cytometry. Significance of means were determined via One Way ANOVA.

Advantages:

- Compare to ITS, ITSE, and SITE
- Animal component free
- Defined and consistent
- Easy-to-use 100x sterile-filtered liquid formulation
- Recombinant insulin and transferrin instead of serum-derived proteins
- Ideal for use with Cellastim (Lipid-rich Recombinant Albumin)

ITSE Animal-Free is Recommended for:

Stem Cell & Regenerative Medicine

- Primary Cells
- T Cells
- Mesenchymal
- iPS/Embryonic
- Neural
- Hematopoietic

Research and Production

- Primary Cells
- CHO
- Hybridoma
- VERO
- HEK293
- BHK
- MDCK
- PER.C6

Component	100x (mg/L)	In Use (1x) (mg/L)
Recombinant human insulin	1,000.00	10.0000
Recombinant human transferrin	550.00	5.5000
Sodium selenite	0.67	0.0067
Ethanolamine	200.00	2.0000



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