

Optiferrin

Recombinant Human Transferrin



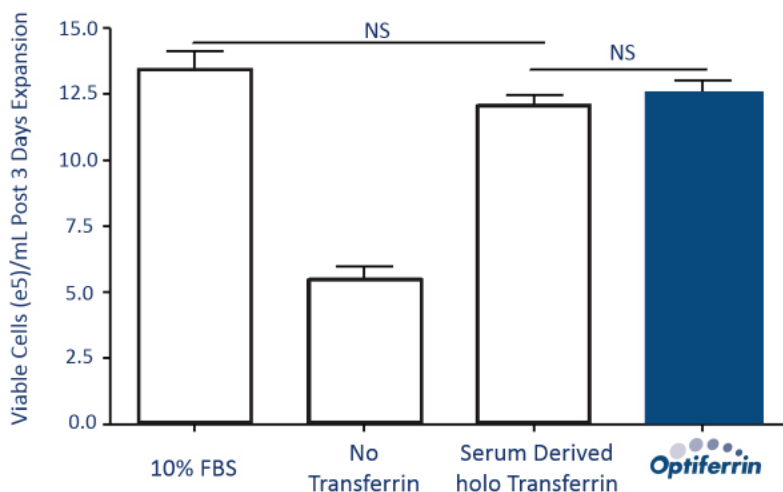
Optiferrin™ is an animal free recombinant human transferrin, for use in a wide variety of mammalian cell culture media including stem cells, primary cells, T-Cells, VERO, fibroblasts, hybridoma, CHO and more. Optiferrin has equivalent function compared to serum-derived human transferrin in cell culture, and offers significant regulatory advantages due to its safety and consistency. Typical use ranges from 10mg/L to 150 mg/L.

How does Optiferrin work?:

Optiferrin transports iron from the extracellular environment into the cell through the transferrin receptor and after

releasing its iron payload within the cell, it is released and able to pick up more iron for transport to the cell in a catalytic cycle.

Equivalence of Optiferrin to serum-derived transferrin



Equivalence of Optiferrin in Hybridoma Cell Growth. Sp2/0 hybridoma (ATCC) were maintained in DMEM/F12 with GlutaMax + 10 mM HEPES and 10% FBS. To determine bioactivity of either transferrin, cells were washed extensively with basal DMEM/F12 and then seeded in the same base supplemented with 1 g/L recombinant human albumin (Cellastim), 10 mg/L recombinant human insulin, 6.7 µg/L selenite, and 2 mg/L ethanolamine with or without 0.1-10 mg/L serum-derived or recombinant human transferrin (Optiferrin). Cells were incubated for 72 hrs and viable cell counts were subsequently determined.

INVITRIA Performance. Defined.

Product Name: Optiferrin™
Product Number: 777TRF029
Product Form: Powder

VWR Product Numbers:
10847-770 - 1 gram
10847-778 - 10 grams

Advantages:

- Recombinant
- Animal component free
- Well defined = consistent
- Transports iron via transferrin receptor on cell surface
- Catalytic iron cycling
- Replaces serum-derived human and bovine transferrin
- No unwanted oxidative reactions

Optiferrin 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

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