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Apo-Transferrin

Cat. No. TM055

Product Description

Apo-Transferrin is the iron-depleted form of transferrin, a glycoprotein involved in iron transport and delivery. It is commonly used as a supplement in serum-free and low-serum cell culture media to support controlled iron availability in vitro.

Apo-Transferrin is particularly useful in applications requiring reduced or tightly regulated iron concentrations, including stem cell culture, hybridoma culture, and specialized serum-free media formulations.

This product is supplied as a non-sterile powder and must be reconstituted and sterile-filtered prior to use in cell culture applications.

Cat. No.	Product	Quantity
TM055	Apo-Transferrin	50 mg

Applications

- Serum-free cell culture
- Low-serum media supplementation
- Stem cell culture
- Hybridoma culture
- Iron-regulated cell culture studies
- Mammalian cell culture applications

Reconstitution

Reconstitute Apo-Transferrin using sterile cell culture-grade water or sterile phosphate-buffered saline (PBS).

- Recommended stock concentration: 10 mg/ml
- Recommended working concentration: 5–10 µg/ml
- Sterile filtration after reconstitution is required

Protocol

1. Measure 5 ml of sterile water or sterile PBS into an appropriate vessel.
2. Add 50 mg of Apo-Transferrin (TM055) powder.
3. Mix gently until fully dissolved. Do not vortex vigorously.
4. Sterile-filter the reconstituted solution using a 0.22 µm filter before adding to cell culture media.
5. Aliquot after filtration to avoid repeated freeze-thaw cycles.

Storage Conditions

- Store powder at 2–8°C.
- After reconstitution and sterile filtration, aliquot and store at -20°C for longer-term storage.
- Avoid repeated freeze-thaw cycles.

General Notes

- Prepare solutions using aseptic technique.
- Sterile filtration is required prior to use in cell culture applications.
- Optimal working concentration should be determined experimentally for each cell type and application.
- Some precipitation may occur if improper pH or buffer conditions are used.

For research use only. Not for diagnostic or therapeutic use.