



MP Biomedicals, LLC

29525 Fountain Parkway
Solon, Ohio 44139

Telephone: 440/337-1200
Toll Free: 800/854-0530
Fax: 440/337-1180
mailto: biotech@mpbio.com
web: <http://www.mpbio.com>

TECHNICAL INFORMATION

Catalog Number: 152335

Transferrin (HOLO)

Source: Bovine plasma

Synonyms: Serum transferrin; beta-1-Metal-combining protein; Siderophilin

Iron Content: Typically not less than 1000 ppm

Molecular Weight: Approximately 76,000-81,000.¹

Physical Description: Reddish lyophilized powder

Solubility: Soluble in water (50 mg/ml - clear, dark orange-red solution)

Description: A group of homologous non-heme, iron-binding glycoproteins. It is an important factor in culture work to carry metabolites to the cells, particularly in a defined medium.

Transferrin is involved in iron transport to developing red cells for hemoglobin synthesis. Each protein molecule specifically binds with two Fe³⁺ ions to form salmon-pink complexes; bicarbonate or carbonate ions are involved in the formation of these colored complexes.¹

Composed of two homologous domains, each containing a binding site for metal ions. The sites are similar, but not identical, in their metal-binding properties.¹

References:

- *Merck Index*, **12th Ed.**, No. 9706.
- Crichton, R.R. and Charl.-Wauters, M., *Eur. J. Biochem.*, **v. 164**, 485 (1987).
- Gorinsky, B., *Adv. Red Blood Cell Biol.*, Weatherall, D.J., et al. (eds.), Raven: New York, p. 7 (1981).