

# Product Information

## Bovine Transferrin, apo

CATALOG NO. 85020C

### Description

All cells require iron for the proper oxygen uptake from their environment. Transferrin, a protein isolated from serum, causes the uptake and transport of iron from culture medium to the cells. This allows proper oxygen uptake and also stimulates growth-related enzyme activity.

Iron-saturated transferrin (holo transferrin) is continually recycled after releasing its iron and becomes iron-deficient transferrin (apo transferrin). Choosing which form to use depends upon the culture conditions. In media such as DMEM/F12 that contain high levels of iron salt, using apo transferrin is preferred.

### Traceability

All bovine proteins are obtained from the United States or other countries considered free of Bovine Spongiform Encephalopathy (BSE). A Certificate of Analysis indicating the country of origin is provided with each lot of Bovine Transferrin.

### Precautions

This product is for further manufacturing use. THIS PRODUCT IS NOT INTENDED FOR HUMAN OR THERAPEUTIC USE.

### Storage

To effectively preserve the integrity of bovine transferrin, it should be stored at the recommended temperature and protected from light. For stability and optimal performance, this product should be stored at -10 to -40 C and used prior to the labeled expiration date.

### Indications of Deterioration

Lyophilized powder should be free flowing. Do not use if powder is caked. Prepared solution should be clear of particulate and flocculent materials. Other evidence of deterioration may include color change as well as degradation of physical or performance characteristics.

### Characteristics

#### Appearance

Off-white to pink lyophilized powder

#### Bioburden

< 100 CFU/g

#### Endotoxin (LAL)

≤ 5.0 EU/mg

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