



LACTOFERRIN ELISA (5091LFER)

General

The Lactoferrin ELISA is used for the quantification of this bioactive bovine milk protein (80 kDa) in milk and milk products. Lactoferrin plays a key role in the defense mechanisms of lactating animals' mammary glands.

The milk lactoferrin concentration is a helpful indicator for the stage of lactation, for mastitis and for intramammary infection in dairy cows.

In addition, lactoferrin is reported to be a natural antioxidant with numerous other functions, including anti-viral, anti-fungal, anti-inflammatory and anti-cancer activities.

The **Lactoferrin ELISA** is a competitive enzyme immunoassay based on antibodies directed against lactoferrin.

Kit characteristics

Microtiter plate:

96 Wells
12 x 8 Breakapart

Conjugate:

Lactoferrin-HRP stabilized

Standard range:

0.05, 0.1, 0.2, 0.5, 1.0 and 2.0 µg/ml

Assay characteristics

Matrices

Bovine whole milk

Direct from cow 200
Dairy fresh 80
UHT 5

Baby and infant milk powder 125

Soy milk UHT 3

LOD (µg/ml)

Sample preparation

For various milk products fast and efficient extraction methods are included in the kit manual.

Procedure

Antibody, conjugate and standard/sample are pipetted into the wells and incubated for one hour at 20°C – 25°C. After a washing procedure ready-to-use substrate is added and incubated for 30 minutes at 20°C – 25°C. The reaction is stopped and the absorbance is read in a spectrophotometer at 450 nm.

EuroProxima's user-friendly software converts the measured optical density in the starting material.