



## Description **Precipitating polyclonal goat antiserum to monkey lactoferrin**

**Product code** YNGMoLFR

**Biological origin** Goat

**Physical form** Delipidated, heat inactivated, lyophilized, stable whole serum.

**Preservative** No preservative added.

**Immunogen** Exocrine organs produce various secretions, each with its characteristic function. Proteins found in secretions may be divided into two groups: those specific for the particular secretion, and plasma proteins independent of the type of exocrine cells. Lactoferrin belongs to the first group. It is an iron containing protein with a molecular weight of 75,000 and it is antigenically different from transferrin. Lactoferrin has a slight antimicrobial action. Originally identified in milk, its presence has also been demonstrated in other secretions as saliva, semen and tears. The immunogen has been isolated from rhesus monkey milk.

Freund's complete adjuvant is used in the first step of the immunization procedure.

**Adsorption** Immunoaffinity adsorbed using insolubilized fractions of monkey serum and lactoferrin-depleted monkey milk as required, to eliminate antibodies reacting with other monkey serum or milk proteins.

The use of insolubilized adsorption antigens prevents the presence of excess adsorbent protein or immune complexes in the antiserum.

**Identity & Specificity** In immunoelectrophoresis against monkey milk a single precipitin line is obtained. The antiserum does not react with any other protein component of monkey serum or plasma.

**Cross-reactivity** The antiserum does not cross-react with any other monkey plasma proteins as tested in gel-diffusion techniques. Inter-species cross-reactivity is a normal feature of antibodies to plasma or milk proteins, since homologous proteins of different species frequently share antigenic determinants. Cross-reactivity of this antiserum has not been tested in detail.

**Protein concentration** Total protein and IgG concentration in the antiserum are comparable to those of pooled normal goat serum. No foreign proteins added.

**Antibody titre** Precipitin titre not less than 1:16 when tested against normal monkey milk in agar block immunodiffusion titration.

**Intended use** In precipitating techniques as immunoelectrophoresis, single and double radial immunodiffusion Mancini, Ouchterlony) and electroimmunodiffusion (Laurell) for the identification and quantitative determination of lactoferrin in body fluids.

**Directions for use** In immunoelectrophoresis use 2 ml monkey serum against 120 ml antiserum. In double radial immunodiffusion (Ouchterlony) use a rosette arrangement with 10 ml antiserum in a 3 mm diameter center well and 10 ml of the antiserum in 3 mm diameter peripheral wells. In single radial immunodiffusion use 1% antiserum in the gel.

**Packing** Vial with 1 ml lyophilized antiserum.

**Storage / shelf life**      Lyophilized at +4°C      at least 10 years reconstituted at or below -20°C      3-5  
years reconstituted at +4°C      7 days

**Handling**      The lyophilized antiserum is shipped at ambient temperature and may be stored at +4°C; prolonged storage at or below -20°C. Reconstitute the lyophilized antiserum by adding 1 ml sterile distilled water. Dilutions may be prepared by adding phosphate buffered saline (PBS, pH 7.2). Repeated thawing and freezing should be avoided. If a slight precipitation occurs upon storage, this should be removed by centrifugation. It will not affect the performance of the antiserum. Diluted antiserum should be stored at +4°C, not refrozen, and preferably used the same day.

**Caution**      This antiserum should be handled by qualified persons only and appropriate precautions should be taken in its handling and disposal, and of all associated materials. For in vitro research purposes only.

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