

BIOXYTECH® Lactof-EIA™

Enzyme Immunoassay For Human Lactoferrin

For Research Use Only. Not For Use In Diagnostic Procedures.

Catalog No. 21015

INTRODUCTION

Human lactoferrin (LTF) is an 80 kDa glycoprotein which was first isolated from human milk. LTF is found in most of the body fluids and secretions, in the nose, genital tract and tear (Autiero, 1991). LTF in blood is secreted from the neutrophils and its plasma concentration is positively related to the total pool of neutrophils and to the rate of neutrophil turnover (Birgens, 1985). Because of its ability to strongly bind iron, LTF is considered to be bactericidal (Baynes, 1986). In a number of cases of inflammation, lactoferrin is released from secondary granules of neutrophilic leukocytes into the extracellular medium (Lash, 1983); KŠihler, 1988). Its extracellular concentration can therefore be used as an index of neutrophil activation, especially in blood samples containing anti-myeloperoxidase antibodies.

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Methodology	Enzyme Immunoassay
Specimen Requirements	Human Samples: Plasma, urine, broncoalveolar lavage fluid, CNS fluid and supernatants from cell cultures
Specificity	Observed cross reactivity with transferrin is less than 1%.
Sensitivity	1.0 ng/mL
Assay Standard Curve Range	1.6 - 100 ng/mL
Expected Values	Healthy adults: 40 - 190 ng/mL (Antonson, 1993)
Tests per Kit	96 tests
Storage and Stability	Twelve months from date of manufacture when stored at 2° - 8° C
Kit Contents	<ul style="list-style-type: none">• 96 antibody-coated microtiter wells (3 x 32)• Purified LTF standard• Biotin-coupled monoclonal anti-LTF• Streptavidin peroxidase• 4 oPD tablets• Diluting and Washing buffers• Stop solution