

Toxoplasmosis in Serum- The test procedure is a solid-phase enzyme immunoassay technique called an indirect enzyme immunoassay (EIA). Diluted test samples are placed into the toxoplasma antigen-coated wells of the microplate. Antibodies will bind to the Toxoplasma antigen. Unbound antibody and other serum proteins are removed by washing. Peroxidase-labelled monoclonal antibody specific for human gamma chain immunoglobulin (IgG) is added. The monoclonal antibody binds to the IgG antibody-Toxoplasma antigen-complexes attached to the microplate wells. Unbound conjugate is removed by washing. A solution of peroxidase substrate and chromogen ortho-phenylene diamine (OPD) initiates a color reaction stopped by addition of an acid. The enzymatic reaction, read as optical density on a spectrophotometer set at 492 nm, is proportional to the quantity of *Toxoplasma gondii* IgG antibody present in the test sample. The results are calculated using a standard curve, and expressed as IU/mL.

-from *Laboratory Procedures Used for the Third National Health and Nutrition Examination Survey (NHANES III) 1988-1994*
Elaine W. Gunter, Brenda G. Lewis, and Sharon M. Koncikowski, 1996