



HTLV-I/II

p19 Antigen ELISA

ZMC Catalog #: 0801116

FOR RESEARCH USE ONLY. Not for *in vitro* Diagnostic Use

INTENDED USE

The RETRO-TEK HTLV p19 Antigen ELISA is supplied for research purposes only. It is not intended for use in the diagnosis or prognosis of disease, or for screening, and may not be used as a confirmatory test in diagnostic situations.

The RETRO-TEK HTLV p19 Antigen ELISA is an enzyme linked immunoassay for the detection of Human T-Lymphotropic Virus Type I (HTLV-I) and Type II (HTLV-II) core antigen in test specimens. The assay is useful in monitoring the course of *in vitro* expression of HTLV-I and HTLV-II in cell cultures and to monitor the purification and biochemical behavior of HTLV-I and HTLV-II.

The RETRO-TEK HTLV p19 Antigen ELISA may augment and/or supplant reverse transcriptase (RT) measurements traditionally used to assess the presence of retroviruses. Such enzymatic measurements, however, are not HTLV-I or HTLV-II specific. In contrast, the RETRO-TEK HTLV p19 Antigen ELISA is immunologically specific for HTLV-I and HTLV-II, uses no radioactive components and is more sensitive than RT.

PRINCIPLE OF THE TEST

Microwells coated with high affinity polyclonal antibodies form the capture phase of the assay. These antibodies react strongly with the major *gag* gene products of HTLV-I and HTLV-II. Viral antigen in the test specimen is captured by the antibody during the sample incubation step. Captured antigen reacts with Detector Antibody which recognizes p19 core protein of HTLV-I and HTLV-II. Specifically bound Detector Antibody is detected with peroxidase conjugated IgG and color is developed with 3,3', 5,5', tetramethylbenzidine (TMB) as substrate. Resultant absorbance values are proportional to the amount of viral core antigen present in the test specimens.

REAGENTS

Materials Supplied:

- **HTLV Antibody Coated Microplate (1 plate):** 96 well microplate coated with polyclonal antibodies.
- **HTLV I/II Detector Antibody (0.5ml):** Antibodies to HTLV-I and HTLV-II p19 core proteins. Contains added protein, Triton X-100® and 2-chloroacetamide.
- **HTLV-I Antigen Standard (0.5ml):** Detergent-disrupted, heat-inactivated viral antigen at a concentration of 16 ng/ml p19. Contains added protein, Triton X-100® and sodium azide.
- **Lysing Buffer (5ml):** Triton X-100® in PBS and 2-chloroacetamide.
- **Peroxidase Reagent (0.3ml):** Peroxidase conjugated IgG. Contains added protein, Triton X-100® and 2-chloroacetamide.
- **Assay Diluent (100ml):** Contains PBS, added protein, Triton X-100® and 2-chloroacetamide.

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Trial Version