



SIV Western Blot Assay

ZMC Catalog No. 0801500 (10 Strip Kit)

0801501 (30 Strip Kit)

0801502 (10 Strips)

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

INTENDED USE

Simian Immunodeficiency Virus (SIV) is the most closely related lentivirus to Human Immunodeficiency Virus (HIV), therefore, SIV infection in monkeys has become the best animal model for studying the pathogenesis of and efficacy of vaccines against HIV infection in human. ^(1-7,10-12)

The ZeptoMetrix Western Blot Assay is a qualitative enzyme immunoassay for the *in vitro* detection of antibodies to SIV in serum or plasma. **It 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.

PRINCIPLE OF THE TEST

Nitrocellulose strips contain SIV_{MAC} viral proteins resulting from electrophoresis and electroblotting of detergent disrupted virus particles.^(8,9) A serum control band is included on each strip to minimize the risk of false negative results due to operational error.

Individual strips are reacted with diluted serum or plasma specimens. If specific SIV antibodies are present, they will bind to the SIV proteins on the nitrocellulose. The strips are washed to remove unbound material. The bound antibodies are visualized by subsequent reaction with goat anti-human IgG conjugated with alkaline phosphatase, followed by BCIP/NBT substrate.

MATERIALS SUPPLIED

- **SIV Nitrocellulose Strips (10 or 30 strips):** Contains electrophoretically separated SIV proteins. Also contains bovine proteins as a blocking agent.
- **Non-Reactive Control (1 vial, 100 μ l):** Serum or plasma non-reactive for HTLV, HCV, HIV, SIV and Hepatitis B surface antigen. Contains 0.1% sodium azide as a preservative.
- **Reactive Control (1 vial, 100 μ l):** Heat inactivated serum or plasma containing a high titer of antibodies to SIV. Contains 0.1% sodium azide.
- **Blotting Buffer (1 bottle, 125 ml):** Contains Tris, NaCl, non-immune goat serum and Tween-20®. Contains 0.1% sodium azide as a preservative.
- **20X Wash Buffer (1 bottle, 100 ml):** Contains Tween-20®, Tris, and NaCl. Contains 0.1% sodium azide when diluted as a preservative.
- **Conjugate (1 vial, 100 μ l):** Goat anti-human IgG (heavy and light chain) antibodies. Contains Tris, NaCl and non-immune goat serum. Contains 0.1% sodium azide as a preservative.
- **Substrate (1 bottle, 75 ml):** 5-bromo-4-chloro-3-indolyl-phosphate (BCIP) and nitroblue tetrazolium (NBT) in a buffered solution.