



## SIV p27 Antigen ELISA

**ZMC Catalog #: 0801169**

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

### **INTENDED USE**

**The RETRO-TEK SIV p27 Antigen ELISA is for research use only and is not intended for *in vitro* diagnostic use.**

The RETRO-TEK SIV p27 Antigen ELISA is an enzyme linked immunoassay used to detect Simian Immunodeficiency Virus (SIV) p27 antigen in research specimens, including cell culture media. It can also be used to monitor the purification and biochemical behavior of SIV.

Furthermore, the assay may augment or supplant reverse transcriptase measurements traditionally employed to detect the presence of SIV. Such enzymatic measurements are not SIV specific.

### **PRINCIPLE OF THE TEST**

Microwells are coated with a monoclonal antibody specific for the p27 gag gene product of SIV. Viral antigen in the specimen is specifically captured onto the immobilized antibody during specimen incubation. The captured antigen is then reacted with a hightiter polyclonal anti-SIV antibody conjugated to biotin. Following a subsequent incubation with streptavidin peroxidase, color develops as the bound enzyme reacts with the substrate. Resultant optical density is proportional to the amount of SIV p27 antigen present in the specimen.

### **REAGENTS**

#### **Materials Supplied:**

- SIV p27 Antibody Coated Microplate for 96 determinations, 1 plate:** 12x8 well strips.
- SIV p27 Detector Antibody, 1 vial, lyophilized:** Contains biotin-labelled polyclonal antibody to SIV, milk, Tween®, normal human serum and PBS.
- Detector Antibody Diluent, 25 ml:** Contains ProClin 300®.
- SIV p27 Antigen Standard, 0.5 ml:** Contains detergent-disrupted, heat-inactivated viral antigen, goat serum, TritonX-100® and sodium azide
- Lysing Buffer, 5 ml:** Triton X-100® in PBS and 2-chloroacetamide.
- Streptavidin peroxidase, 0.3 ml:** Contains streptavidin conjugated to horseradish peroxidase, PBS, goat serum, and 2-chloroacetamide.
- Assay Diluent, 100 ml:** Contains goat serum, PBS, Triton X-100® and 2-chloroacetamide.
- 10X Plate Wash Buffer, 125 ml:** Contains PBS, Tween 20® and 2-chloroacetamide
- Substrate, 0.3 ml:** Contains tetramethylbenzidine (TMB) and dimethyl sulfoxide.
- Substrate Buffer, 50 ml:** Contains citrate/acetate buffer, hydrogen peroxide and 2-chloroacetamide.
- Stop Solution, 12 ml:** Proprietary formulation
- Plate Sealers, 10**
- Resealable Plastic Bag.**

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Trial Version