



## Immunoassay Controls and Reagents

Immunoassays are used in scientific research to track different proteins such as hormones, enzymes, viral antigens, and antibodies. In industry, they are used to detect contaminants and in quality control to monitor specific molecules used during product processing. Immunoassays rely on the inherent ability of an antibody to bind to the specific structure of a molecule. Two types of immunoassays are ELISA (enzyme-linked immunosorbent assay) and Western blotting.

An ELISA is a rapid and sensitive immunochemical assay designed to detect and quantify soluble biomolecules such as peptides, proteins, and antibodies. The epitope of interest binds with antibody conjugated to the reporter enzyme. Upon binding, the enzyme catalyzes a colorimetric reaction, which could be measured by a microplate reader.

Western blotting (or immunoblotting) is a widely used method for protein detection, using antibody-based probes to obtain specific information about target proteins from complex samples. The Western blot is more of a qualitative method, sometimes as semi-quantitative.



## ZeptoMetrix ELISA Kits

ZeptoMetrix ELISA (enzyme-linked immunosorbent assay) Kits are designed for easy use and offer a quick turnaround time. They include ready-to-use reagents and are refrigerator stable.

RETROTEK™ ELISA kits are intended for the detection and quantification of retroviral antigens from various specimens including cell culture, serum and plasma.

IMMUNOTEK™ ELISA kits can detect and quantify various immunoglobulins including IgG, IgM, and IgA in human, mouse and other species and may be utilized in monitoring the yield in antibody production and purification. Quick results—take less than 2 hours to perform.

Part Number	Product Description	Format	Use*
<b>RETROTEK ELISA Kits</b>			
0801002	HIV-1 p24 Antigen ELISA 2.0	1 Plate	RUO
0801008	HIV-1 p24 Antigen ELISA 2.0	5 Plate	RUO
0801111	HIV-1 p24 Antigen ELISA	1 Plate	RUO
0801200	HIV-1 p24 Antigen ELISA	5 Plate	RUO
0801116	HTLV p19 Antigen ELISA	1 Plate	RUO
0801169	SIV p27 Antigen ELISA	1 Plate	RUO
0801201	SIV p27 Antigen ELISA	5 Plate	RUO
<b>Accessory Products for the HIV-1 p24 Antigen ELISA</b>			
0801137	HIV-1 p24 Extended Range Kit (5 x 96 determinations)		
0801096	HIV-1 p24 ICx/CRx (Immune Dissociation & Reactive Confirmation) Kit (100 tests)		
<b>IMMUNOTEK ELISA Kits</b>			
0801198	Bovine IgG ELISA	1 Plate	RUO
0801010	Chicken IgY ELISA	1 Plate	RUO
0801223	Goat IgG ELISA	1 Plate	RUO
0801029	Guinea Pig IgG ELISA	1 Plate	RUO
0801221	Horse IgG ELISA	1 Plate	RUO
0801197	Human IgA ELISA	1 Plate	RUO
0801182	Human IgG ELISA	1 Plate	RUO
0801183	Human IgM ELISA	1 Plate	RUO
0801180	Mouse IgG ELISA	1 Plate	RUO
0801181	Mouse IgM ELISA	1 Plate	RUO
0801202	Rabbit IgG ELISA	1 Plate	RUO
0801009	Rat IgG ELISA	1 Plate	RUO

The following ZeptoMetrix products and support reagents are readily available to assist in the development of your custom assays:

Part Number	Product Description
0801188	ELISA Construction System (5 x 96 determinations)
0801060	10x Plate wash buffer (125 mL)
0801184	ZeptoBind (60 mL)
0801184L	ZeptoBind (1 L)
0801185	ZeptoBlock (120 mL)
0801185L	ZeptoBlock (1 L)
0801179	ZeptoCoat (60 mL)
0801179L	ZeptoCoat (1 L)

## ZeptoMetrix Western Blots

ZeptoMetrix Western Blot Kits\* are qualitative enzyme immunoassays that allow for the detection of IgG antibodies in serum or plasma.

Simian immunodeficiency virus (SIV) kits include strips (10 or 30), non-reactive control, reactive control, blotting buffer, 20x wash buffer, conjugate, substrate, blotting powder, and incubation trays.

Our SIV and Zika virus Western Blot strips are also available for researchers to use in their customized assays.

Part Number	Product Description	Use*
0801500	SIV Kit, with 10 strips	RUO
0801501	SIV Kit, with 30 strips	RUO
0801502	SIV, tube of 10 strips	RUO
0801022	Zika (MR-766), tube of 10 strips	RUO
0801021	Zika (PRVABC59), tube of 10 strips	RUO

\*For Research Use Only; not for use in diagnostic procedures.



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