

MGSearch HIV-1 Immunodot : is an enzyme-linked immunosorbent assay employing highly purified HIV-1 envelope, reverse transcriptase and core proteins applied as separate spots on nitrocellulose strips. The immunodot test is a sensitive method for the detection of antibodies to HIV-1 ... / MicroGeneSys, Inc.

Contributors

MicroGeneSys, Inc.

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MicroGeneSys, Inc.

BIOPHARMACEUTICALS

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MGSearch™ HIV-1 Immunodot is an enzyme-linked immunosorbent assay employing highly purified HIV-1 envelope, reverse transcriptase and core proteins applied as separate spots on nitrocellulose strips. The immunodot test is a sensitive method for the detection of antibodies to HIV-1. The test's high specificity and sensitivity makes it a very reliable method for the research laboratory.

The development of antibodies against structural proteins of HIV-1 is an early indication of exposure to the AIDS virus. The envelope glycoproteins, core protein and reverse transcriptase protein are very immunogenic proteins of the HIV-1 virus. **MGSearch™ HIV-1** was developed by MicroGeneSys to detect antibodies against these HIV-1 structural proteins. The kit's envelope, reverse transcriptase and core proteins (gp160, p66* and p24*) are produced in insect cells using genetically-engineered baculovirus expression vectors, thus eliminating potential mammalian, bacterial or yeast antigens that could cause false-positive reactions. The recombinant derived antigens are full-length, highly purified proteins and the gp160 envelope protein is glycosylated. The proteins are purified under conditions designed to maintain a native conformation, thus maximizing the number of available antigenic determinants for detection of HIV-1 antibodies.

MGSearch

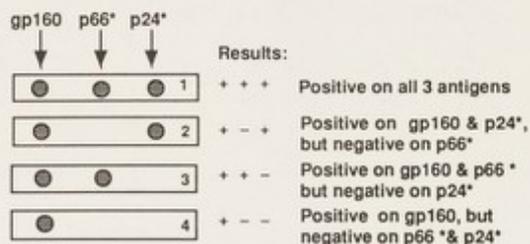
- requires no special training
- can analyze human or animal sera
- can be used in screening for monoclonal antibodies
- requires no sample pre-treatment
- gives visually read results
- requires no additional equipment

MGSearch Compared to Western Blots

- is a fraction of the cost of commercially available Western blots
- contains equivalent amounts of envelope, RT and core antigens
- has greater sensitivity
- eliminates the false bands (cross-reacting bands) that can occur in as many as 20% of all Western blots
- is easier to read

Convenient Format

- The purified proteins (gp160, p66*, and p24*) have been mixed with a blue indicator dye and applied as separate spots on consecutively numbered nitrocellulose strips.
- Human or animal antibodies to HIV-1 envelope, reverse transcriptase and core proteins, if present in the samples tested, will bind to the protein spots.
- The bound antibodies are then detected by their reaction with goat anti-human (anti-mouse, etc.) antibody conjugated to alkaline phosphatase.
- Results as early as 8 hours; optimal results overnight.
- Positive reactions indicating the presence of antibody to HIV-1 produce a distinct violet color spot; negative reactions do not.
- Samples may be positive for one, two or all three HIV-1 antigens (see figure).



Storage and Stability

- Test strips are stable for up to 1 year when properly stored at -20°C.
- Test kit reagents are stable for up to 9 months when properly stored at 4°C.

Kit Contents

- Antibody Buffer
- 10X Wash A
- 10X Wash B
- Chromogen Diluent
- 100X Chromogen A
- 100X Chromogen B
- Antibody Conjugate
- Positive Control Serum
- Negative Control Serum
- Nitrocellulose Test Strips
- Test Plates
- Instruction Manual

Ordering Information

Call our TOLL FREE number (800) 541-8315; in Connecticut, call 932-2010. Facsimile: (203) 932-6944. Our customer service representatives are available Monday through Friday 9:00 a.m. until 6:00 p.m. Eastern time.

Description	Cat. No.	Quantity	Size	Price per kit
<i>MGSearch HIV-1(gp160/p66*/p24*)</i>	1306	(1-5 kits)	96 strips/kit	\$1170.00
		(6-11 kits)	96 strips/kit	\$1115.00

For More Information on *MGSearch*[™] Immunodot and *MGScan*[™] ELISA diagnostic assays or our HIV-1 antigens, please call or write:

MicroGeneSys, Inc.

400 Frontage Road
West Haven, CT 06516

References

- Allan, J.S., J.E. Coligen, F. Barin, *et al.* (1984). "Major Glycoprotein Antigens that Induce Antibodies in AIDS Patients are Encoded by HTLV-III." *Science* **228**:1091-1094.
- Cao, Y., F. Valentine, S. Hojvat, *et al.* (1987). "Detection of HIV Antigen and Specific Antibodies to HIV Core and Envelope Proteins in Sera of Patients with HIV Infection." *Blood* **70**:575-578.

CAUTION: MicroGeneSys' recombinant proteins are provided only for use in laboratory animals or *in vitro* tests. They may not be used in humans, clinical diagnostic procedures or blood bank screening and any such use is unlawful.