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### Multispot HIV-1/HIV-2 Rapid Test Kit

A rapid, membrane-based Enzyme Immunoassay for the detection and differentiation of HIV-1 and HIV-2 antibodies in human serum or plasma.

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### Principle of the Test

- Microscopic particles are individually coated with antigens specific for HIV-1 and HIV-2.
- The microparticles are absorbed onto the reaction membrane of the Test Cartridge to form test spots.
- Patient samples diluted in Specimen Diluent are added. HIV antibodies present in the sample will bind to the antigens on the membrane.

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### Principle of the Test (Cont.)

- Conjugate is added to the Test Cartridge and will bind to antigen-antibody complexes on the membrane.
- A development reagent is added and purple color develops in the test spots and the control spot where antibody has bound.
- The appearance and location of colored test spots determines if the sample is reactive for HIV-1, HIV-2, or both.

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## Multispot Membrane Configuration

1 - Reactive Control Spot

3 - Recombinant HIV-1



2 - HIV-2 Peptide

4 - HIV-1 Peptide

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## Multispot Biologicals

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## Multispot Procedure



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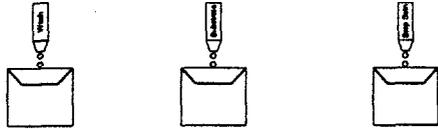
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### Multispot Procedure (Cont.)



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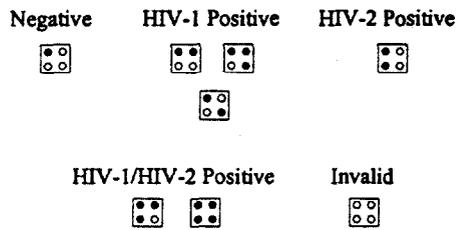
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### Multispot Assay Interpretation of Results



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### Multispot Kit Design

- Separate HIV-1 and HIV-2 spots allow testing for both viruses with one test cartridge.
- The Reactive Control Spot provides assay validity for every test run.

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### Multispot Kit Design

- Rapid turn-around-time with total incubation time of 9 minutes (2 min. + 2 min. + 5 min.)
- No special equipment required.
- Test cartridge contains prefilter to eliminate specimen flow problems.

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### Multispot Manufacture

- The recombinant protein and 2 synthetic peptides are manufactured in the licensed Bio-Rad (formerly Genetic Systems Corporation) facility in Redmond, WA.
- The cartridges and reagents are manufactured by Bio-Rad France.
- The kit is assembled, tested, and released by Bio-Rad France.

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