

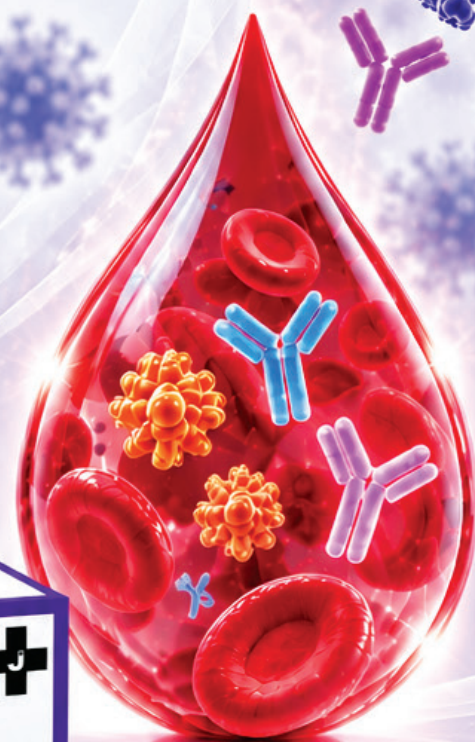
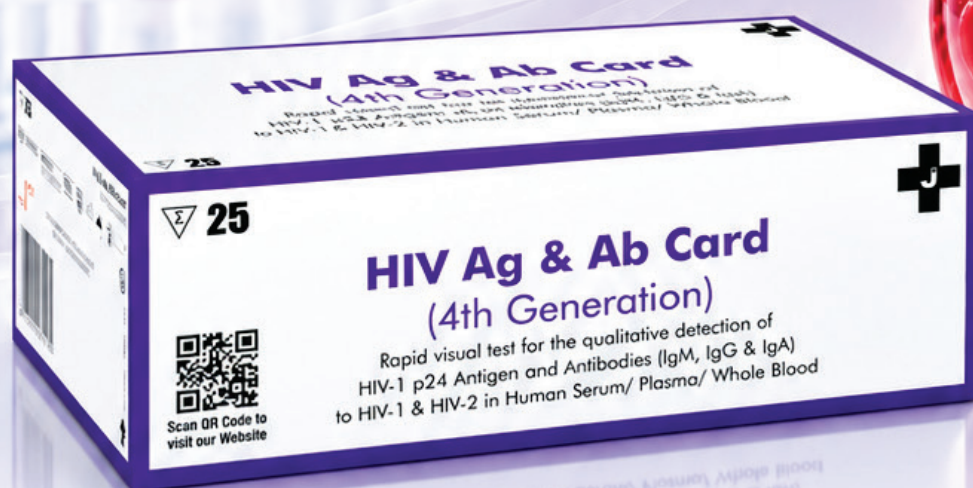
4TH GENERATION

HIV Ag & Ab CARD

Rapid visual test for the qualitative detection of HIV-1 p24 Antigen and Antibodies (IgM, IgG & IgA) to HIV-1 & HIV-2 in Human Serum/ Plasma/ Whole Blood

Salient Features

- Finger Prick, Rapid, Visual and qualitative Immunoassay
- 4th Generation Rapid test for differential detection of p24 Antigen & Antibodies for HIV in Serum/ Plasma/ Whole Blood
- Use of gp-41, C terminus of gp-120 for HIV-1, gp-36 for HIV-2 antibodies and Anti-p24 for HIV p24 Ag detection.
- Detection of Group 'O' & subtype 'C' of HIV-1, which is most prevalent in India.
- Ideal for Blood screening, detects sero-negative HIV Cases
- Based on Immunochromatography Technique
- Sensitivity: 100% & Specificity: 100%
- Analytical Sensitivity of HIV p24 Ag: 100 IU/ml (traceable to p24 Antigen NIBSC Standard, U.K. Code No. 90/636)
- Long Shelf Life: 30 months at 2-30°C
- Convenient Pack Size: 25 Tests



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Significance of p24 Antigen

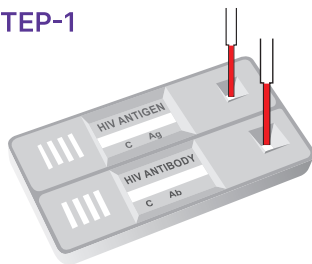
p24 is the product of the gag gene and resides in the viral core. p24 appears in early stage (2-4 weeks) after infection due to the initial burst of the virus replication and is associated with high level of viremia during which the individual is highly infectious. The p24 proteins then become undetectable again after sufficient antibodies to HIV have been produced. Later in the course of HIV infection, p24 protein again becomes detectable.

Advantage of differential detection of Ag and Ab in HIV

- The benefits of testing for antigen & antibody are justifiable due to the need to identify individuals with both early & established HIV infections not only within the blood donor population but also in the clinical application.
- Screening of donors to detect early infection when individual is seronegative of HIV antibodies i.e. "Window period".
- Simultaneous detection of p24 antigen and antibodies will help in monitoring the response to therapy and can be used to effectively predict disease outcome.
- Detection of Acute infection and helping in early treatment.
- Detection of p24 will provide the HIV infection status in new born babies since babies born to HIV infected mothers retain their mother's antibodies for up to 18 months while they are actually HIV negative.
- Persons on HIV vaccine trials may have HIV antibodies even if they are not infected with the virus.a

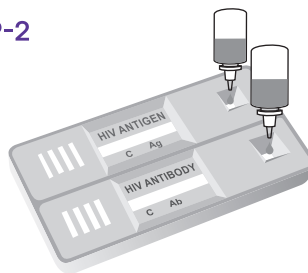
Test Procedure

STEP-1



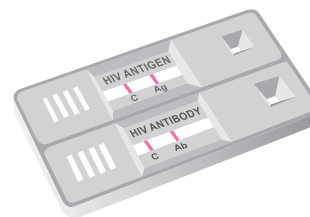
Add 1 drop (20 µl) of the sample (Serum / Plasma / Whole Blood) using sample dropper / micropipette into the sample wells of both the HIV Antigen and HIV Antibody device respectively.

STEP-2



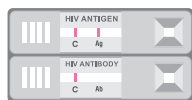
Add 1 drop Assay Buffer into the sample well of both device.

STEP-3

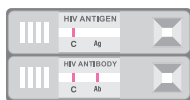


Read results at 20 minutes.

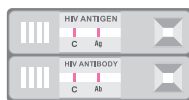
Result Interpretation



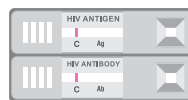
"REACTIVE" for HIV-1 p24 Antigen.



"REACTIVE" for HIV-1 &/or HIV-2 Antibodies.



"REACTIVE" for both HIV-1 p24 Antigen & HIV-1 and/or HIV-2 Antibodies.



"NON REACTIVE" for both HIV-1 p24 Antigen & HIV-1 and/or HIV-2 Antibodies.



The test is invalid, repeat the test with a new card.



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