



## Biotech for Medicine

### Reference

HIV-1/2 Ag ELISA:  
BM201-2.0

Optional modules:

HIV ICD Module:  
BM201-ICDM

HIV Ag Verification Module:  
BM201-VM

### User friendly

Ready-to-use diluents

Colour-coded

Total assay time 2h

### Best in Class

Detection of all HIV genotypes  
(Including HIV-10 &2)

Ultrasensitive

100% specificity (N=423 samples  
including 59 interfering samples)

### BioMARIC HIV-1/2 Ag ELISA (RUO)

The BioMARIC HIV-1/2 Ag ELISA is a best-in-class solid phase Enzyme-Linked Immunosorbent Assay (ELISA) for the sensitive detection of HIV-1/2 p24/p26 antigen in human serum or plasma and in cell culture supernatants.

When using samples containing high titers of anti-p24/p26 antibodies, an additional module is available to dissociate p24/p26 from immune complexes (BM201-ICDM).

The BioMARIC HIV-1/2 Ag ELISA can be used for the relative quantification of the HIV core antigen.

Verification reagents to confirm true positiveness of the samples are also available (BM201-VM).





## Assay Principle

### Step 1 (60 minutes)

Coated and biotinylated p24/p26-specific antibodies form a sandwich-like immune complex with HIV-1/2 p24/p26 antigen when present in the tested sample. Unbound biotinylated p24/p26-specific antibodies are removed via a washing step.

### Step 2 (30 minutes)

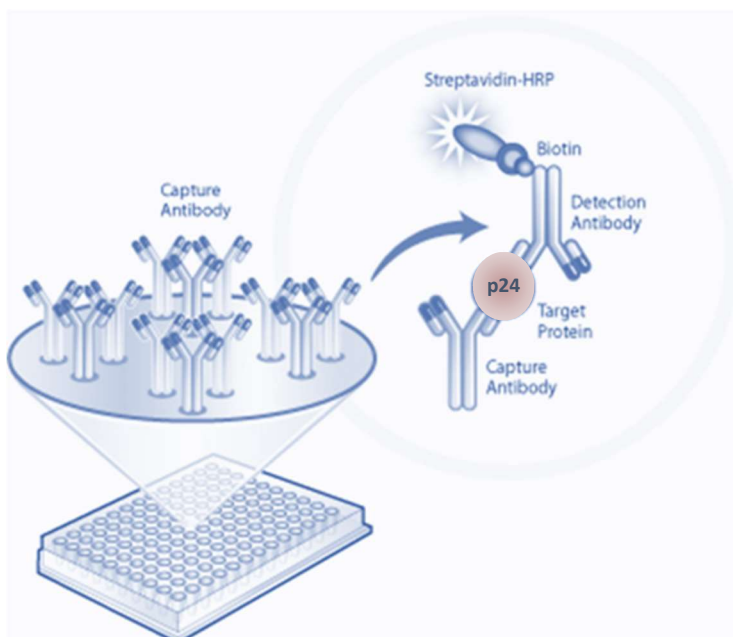
HRP-labelled streptavidin binds to the immune complex through the interaction of biotin with streptavidin. Unbound streptavidin is then removed via a washing step.

### Step 3 (30 minutes)

Peroxidase metabolizes the substrate to develop a blue colour in proportion to the amount of antigen present in the sample.

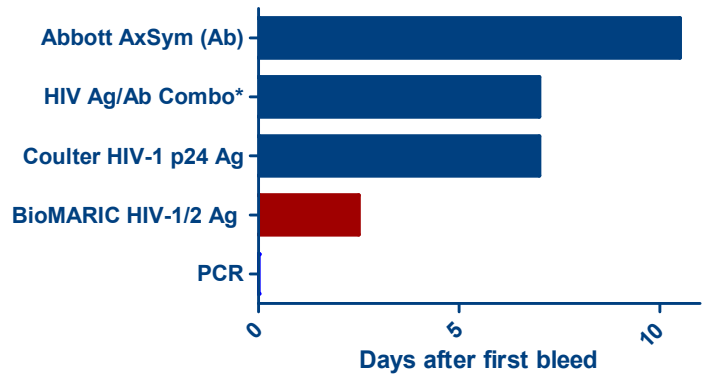
### Step 4 (5 minutes)

Colour development is stopped by acidification, turning the blue colour of the solution to yellow. The absorbance is measured at 450 nm.

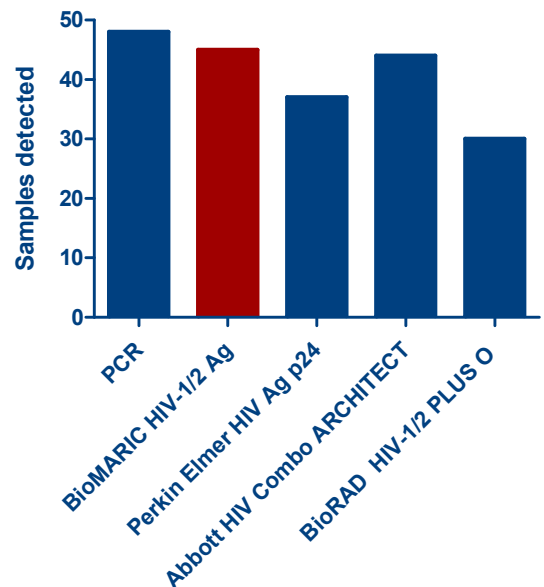


## Assay Performance

**Average timing of detection**  
(PRB965 & PRB947)



**Sensitivity in performance panels**  
(0800-297 PRA204 & PRB109)



**Analytical sensitivity**  
BioMARIC HIV-1/2 Ag ELISA

BioRad p24 (72217)	2 pg/ml
NIBSC p24 (90/636)	0.08 IU/ml
BioMARIC p24 (200.006)	0.156 pg/ml
Amsbio p26 (HI2A-850-5)	<1.25 pg/ml
NIBSC p26 (EVA661)	2.5 pg/ml

