GS HIV-1/HIV-2 *PLUS O* EIA

Test Format

Sample/Reagent Addition Monitoring

Color of well BEFORE addition — **Color of well AFTER addition**

1 HOUR

- Coated microplate*
- 25 µL of Specimen Diluent

clear to purple

- 75 µL of samples or controls
- Incubate 60 minutes at 37° C

purple to blue

WASH

30 MINUTES

- 100 µL of Working Conjugate Solution**
- Incubate 30 minutes at 37° C

clear to green

WASH

30 MINUTES

- 100 µL of Working TMB Solution
- Incubate 30 minutes at room temperature

clear to blue***

- 100 µL of Stopping Solution

blue to yellow***

READ within 30 minutes at 450 nm with the 615-630 nm filter as a reference

* Microplate coated with: 1) HIV-1 gp160 rDNA protein; 2) HIV-1 p24 rDNA protein; 3) Synthetic polypeptide mimicking artificial HIV-1 group O epitope; 4) HIV-2 gp 36 polypeptide.

** Conjugate (peroxidase-conjugated antigens): 1) Two HIV-1 gp41 polypeptides; 2) HIV-1 p24 rDNA protein; 3) Synthetic polypeptide mimicking artificial group O epitope; 4) HIV-2 gp36 polypeptide.

*** Reactive samples after 30 minute incubation.

Ordering Information

Catalog No.	Description
32588	GS HIV-1/HIV-2 *PLUS O* EIA ..... 480 tests
32589	GS HIV-1/HIV-2 *PLUS O* EIA ..... 960 tests
25256	GS HIV-1/HIV-2 *PLUS O* EIA ..... 4800 tests

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Clinical Diagnostics Group

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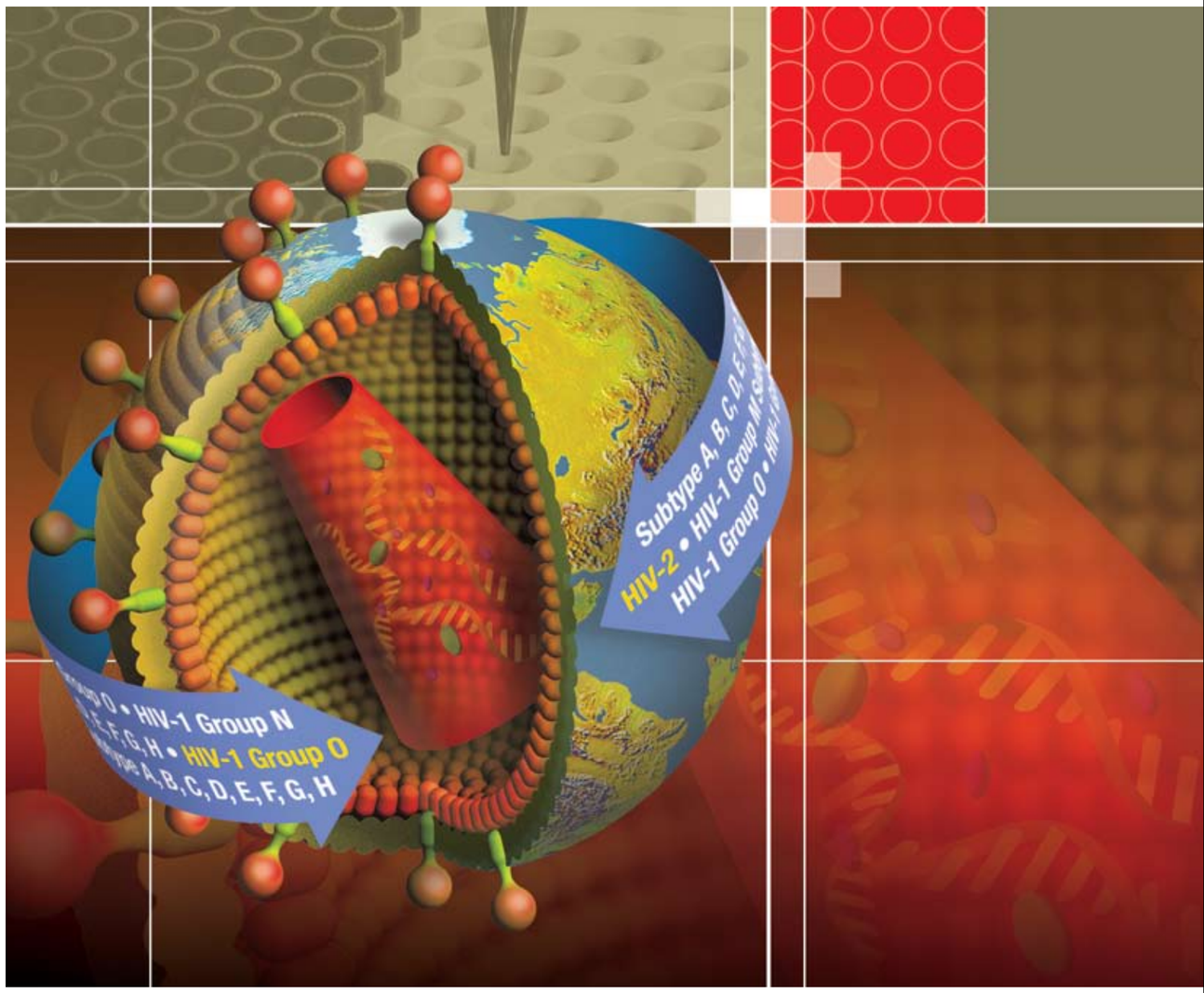


GS HIV-1/HIV-2 *PLUS O* EIA

A Unique Assay that Detects the Broadest Range of HIV

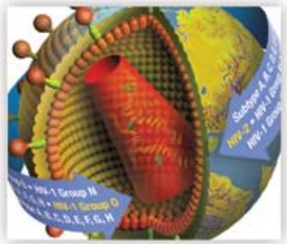
BIO-RAD

GS HIV-1/HIV-2 *PLUS O* EIA

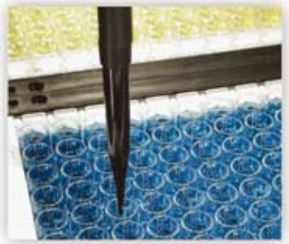
True Detection of HIV-1 Group O

The GS HIV-1/HIV-2 *PLUS O* is an EIA utilizing recombinant proteins and synthetic peptides for the detection of antibodies to HIV-1 (groups M and O) and/or HIV-2. The detection of HIV-1 group O is possible due to the presence of a synthetic peptide mimicking an artificial HIV-1 group O epitope coated in the microplate well.

The only HIV-1/HIV-2 microplate assay approved for diagnostic and blood screening use to test human serum, plasma and cadaveric serum samples.



- Detects antibodies to HIV-1 (groups M and O)
- Detects antibodies to HIV-2



For manual and automated use

Common reagents can be used with other Bio-Rad EIA assays

Color changes during protocol steps

Offers results in 2.5 hours

Microplate strip identification

Ensuring Detection of All HIV Groups and Variants

Reactivity in HIV-1 (Groups M and O) and HIV-2 Positive Samples

Results obtained with GS HIV-1/HIV-2 *PLUS O* EIA

Group	Number Reactive	Percent Reactive
Known HIV-1 Positive* (N = 1002)	1002	100%
Known HIV-2 Positive** (N = 302)	302	100%
Known HIV-1 Group O Positive*** (N = 77)	77	100%

* Included 313 AIDS patients, 490 known HIV-1 positive samples from the U.S., and 199 known HIV-1 positive samples from non-U.S. countries [Australia, New South Wales (N = 36), Central African Republic (N = 40), Ghana (N = 5), Kenya (N = 3), Nigeria (N = 46), Sierra Leone (N = 40), Thailand (N = 21), Zimbabwe (N = 8)].

** HIV-2 samples were repeatedly reactive on an HIV-2 EIA, positive on an HIV-2 Western blot, and indeterminate or negative on an HIV-1 Western blot.

*** Samples were characterized as HIV-1 group O by serotype and/or genotype.

Closing the Serological Window

Reactivity on 50 HIV-1 Seroconversion Panels

Results obtained with GS HIV-1/HIV-2 *PLUS O* EIA

Comparison	HIV-1/HIV-2 *PLUS O* Equivalent	HIV-1/HIV-2 *PLUS O* More Sensitive	HIV-1/HIV-2 *PLUS O* Less Sensitive
vs. Licensed Kit #1	12/46* (26%)	34/46* (74%)	0 (0%)
vs. Licensed Kit #2	35/50 (70%)	9/50 (18%)	6/50 (12%)
vs. Licensed Western Blot	13/50 (26%)	37/50 (74%)	0 (0%)

* Four of the 50 seroconversion panels did not have test results with the licensed HIV-1/HIV-2 EIA Kit # 1 and are no longer available for testing.