



FDA-Approved HIV supplemental tests for laboratory use only (CLIA Moderate or High Complexity Tests)^{a,b} [For use with: serum, plasma, oral fluid, dried blood spots or urine]

Test Name	Time to test result	Target analyte	Sensitivity for established HIV-1 infection (%) (95% Confidence Interval)	Specificity (%) (95% Confidence Interval)	Specimen types and volume ^c	Assay format	Manufacturer web site FDA product inserts
 <p>Geenius™ HIV 1/2 Supplemental System (CLIA moderate complexity)</p>	20 min	Differentiates HIV-1 and HIV-2 antibodies.	Serum 99.33(97.59-99.82) Fingertick 100 (97.46-100) Whole Blood EDTA 100 (97.5-100) EDTA Plasma 99.34 (96.34-99.88)	Overall indeterminate rate for low risk population was 4.33% (18/416) for all matched sample types combined.	Whole Blood, Serum /plasma	Immuno-chromatographic. Assay results are read and interpreted by the Geenius Reader.	Link to Bio-Rad Link to FDA-Approved product insert
 <p>Aptima HIV-1 RNA Qualitative Assay (CLIA high complexity assay)</p>	> 3 hours	HIV-1 Viral RNA: This is the only FDA-Approved HIV-1 NAT approved for Diagnostics use.	Serum/plasma sensitivity at 100 copies/ml: 100 (99.6-100)	Serum/plasma (see product insert)	Serum/plasma 500 µl	Transcription-mediated amplification of nucleic acid	Link to Hologic Link to FDA-Approved product insert



Multispot HIV-1/HIV-2 Rapid Test
 CLIA moderate complexity
 (This test is no longer manufactured)

20 min
 Differentiates antibodies to HIV-1 and HIV-2, can be used as a screening test or as a supplemental test in a diagnostic algorithm
 Serum/plasma
 100 (99.9-100)
 Serum/plasma
 99.9 (99.8-100)
 Serum/plasma
 30 µl
 ImmunoConcentration

[Link to Bio-Rad](#)
[Link to FDA-Approved product insert](#)

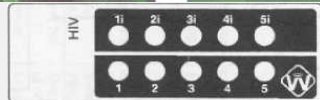
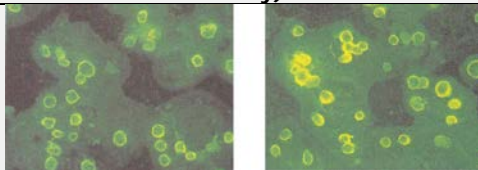
Other HIV-1 Antibody Supplemental Diagnostic Assays



Bio-Rad Genetic Systems HIV-1 Western Blot (CLIA high complexity assay)

>3 hours
 Antibodies to HIV-1
 HIV-1 serum/plasma /dried blood spots (see product insert)
 Serum/plasma /dried blood spots HIV-1 indeterminate rate in low risk populations that are EIA negative: 10.7%⁹
 Serum/plasma or dried blood spots 10µl
 Western blot electrophoresis (WB)

[Link to Bio-Rad](#)
[Link to FDA-Approved product insert](#)



Fluorognost HIV-1 IFA (CLIA high complexity assay)

1.5 hours
 Antibodies to HIV-1
 Serum/plasma /dried blood spot (see product insert)
 Serum/plasma /dried blood spot (see product insert)
 Serum/plasma 10 µl
 Dried blood Spot
 indirect immunofluorescence (IFA)

[link to Sanochemia](#)



Cambridge Biotech HIV-1 Serum Western Blot (CLIA high complexity assay)

> 3 hours

Antibodies to HIV-1

Serum/plasma
(see product insert)

Serum/plasma
(see product insert)

Serum/plasma
20 µl

Western blot electrophoresis (WB)

[Link to Cambridge Biotech](#)

[Link to FDA-Approved product insert](#)



Cambridge Biotech HIV-1 Western Blot Urine Kit

> 3 hours

Antibodies to HIV-1

Urine
(see product insert)

Urine
(see product insert)

Urine
1 ml

Western blot electrophoresis (WB)

[Link to Maxim Biomedical](#)

[Link to FDA-Approved product insert](#)



OraSure HIV-1 Western Blot (only used with specimens collected with the OraSure HIV-1 oral fluid collection device) CLIA high complexity assay

> 3 hours

Antibodies to HIV-1

Oral fluid
(see product insert)

Oral fluid
(see product insert)

Oral fluid
150 µl

Western blot electrophoresis (WB)

[Link to OraSure Technologies](#)

[Link to FDA-Approved product insert](#)

a The Clinical Laboratory Improvement Amendments (CLIA) sets criteria based on complexity levels of tests. Briefly, there are three levels of complexity: 1) Waived – simple, low-risk tests that can be performed with minimal training that do not require centrifugation of specimens for testing, 2) Moderate Complexity – simple tests that use plasma or serum specimens (must participate in external proficiency testing program) 3) High Complexity – tests that require trained lab personnel, involve multiple step protocols, frequent quality control, and participation in external proficiency testing program. For more information about CLIA regulations go to http://www.cms.gov/Regulations-and-Guidance/Legislation/CLIA/CLIA_Regulations_and_Federal_Register_Documents.html

b For more information about using HIV tests in multi-test algorithms see “Laboratory Testing for the Diagnosis of HIV Infection: Updated Recommendations” [Link to Recommendations](#) and a companion quick reference graphic is available [Link to Quick Reference Guide](#).

c Volume for initial test. Repeat testing of reactive tests may be required based on manufacturer’s instructions.