HIV
Test Menu

Sonora Quest Laboratories™
A Subsidiary of Laboratory Sciences of Arizona

Screening and Diagnostic Testing

Test Name	Test Code	Specimen Requirements	Clinical Use Summary
HIV-1/2 Ag/Ab 4th Generation w/reflexes	3682	1 dedicated refrigerated SST (2 mL minimum).	Screen for and confirm HIV-1/HIV-2 infection, including acute infection; differentiate HIV-1 from HIV-2 infection. Repeatedly reactive screening results are reflexed to the supplemental HIV-1/2 antibody differentiation test at an additional charge; negative and indeterminate HIV-1/2 antibody differentiation results are reflexed to the HIV-1 Qualitative RNA, TMA test at an additional charge.

Monitoring - Viral Load Testing

Test Name	Test Code	Specimen Requirements	Clinical Use Summary
HIV-1 Quantitative Real-Time PCR	902581	2 mL frozen EDTA plasma (1 mL minimum). A separate, designated sample for this test must be sent. Centrifuge and transfer plasma from whole blood within 24 hours of collection. Transfer plasma into a screw-cap polypropylene (plastic) tube. Label as EDTA plasma.	This test can be used to assess patient prognosis by measuring the baseline HIV-1 RNA level or to monitor the effects of antiretroviral therapy. Linear range of **20 - 10,000,000** copies/mL (**1.30 - 7.00** LogCopies/mL).
HIV-1 DNA PCR, Qualitative	3753	3 mL refrigerated whole blood from a lavender-top (EDTA) tube (1 mL minimum). Do not freeze.	Used to detect the integrated (proviral) form of HIV-1 DNA.
HIV-1 Quantitative w/reflex to HIV-1 Genotype	904561	3 mL frozen EDTA plasma (2.5 mL minimum). A separate, designated sample for this test must be sent. Centrifuge and transfer plasma from whole blood within 24 hours of collection. Transfer plasma into two screw-cap polypropylene tubes. Label as EDTA plasma.	Provides a direct assessment of viremia and should be used in conjunction with CD4+ T-cell counts. Useful in patients to assess prognosis, monitor progression of HIV-1 infection, determine when to initiate therapy, and monitor effectiveness of antiretroviral therapy. Reflexes to genotype if ≥**400** copies/mL (**2.6** LogCopies/mL).

Monitoring - Flow Cytometry Testing

Test Name	Test Code	Specimen Requirements	Clinical Use Summary
CD4, Absolute & Percent (includes WBC)	801133	4 mL room temperature lavender-top (EDTA) tube (1 mL minimum). Affix "Room Temperature" label to specimen bag. Specimen must reach the laboratory within 18 hours of collection.	Determine immune status of patients with HIV infection; Monitor anti-retroviral and immunosuppressive therapy; Used for differential diagnosis of congenital and acquired immune deficiencies.
CD4/CD8 Panel (CD3; CD4; CD8 & CD4/8 Ratio; WBC & Absolute Counts)	205927	4 mL room temperature lavender-top (EDTA) tube (1 mL minimum). Affix "Room Temperature" label to specimen bag. Specimen must reach the laboratory within 18 hours of collection.	Determine immune status of patients with HIV infection; Monitor anti-retroviral and immunosuppressive therapy; Used for differential diagnosis of congenital and acquired immune deficiencies.

Tests on this chart may change periodically.

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Resistance Testing and Drug Selection

Test Name	Test Code	Specimen Requirements	Clinical Use Summary
HIV-1 Genotype	11888	3 mL frozen EDTA plasma from an LT or PPT white-top tube* (1 mL min). Centrifuge within 24 hours of collection and transfer plasma to a plastic vial.	This test is intended for use in conjunction with clinical presentation and other laboratory markers of disease progress for the clinical management of HIV-1 infected patients. This test identifies drug resistance-associated mutations in the HIV-1 protease and reverse transcriptase genes. It can be used to predict antiretroviral drug resistance before initiation of therapy and in patients experiencing virologic failure while on therapy.
HLA-B*5701 Typing	902652	5 mL room temperature whole blood collected in a lavender-top tube (3 mL min).	Used to determine Abacavir ("ABC") hypersensitivity reaction ("HSR") to determine patient eligibility for Epzicom and other ABC containing products. In Abacavir-naive patients, HLA-B*5701 genotyping may be useful for risk stratification.
HIV-1 Coreceptor Tropism, Ultradeep Sequencing	906729	2 mL frozen EDTA plasma from an LT or PPT white-top tube* (0.6 mL min). Centrifuge and transfer plasma from whole blood within 24 hours of collection. Transfer plasma to a screw-cap polypropylene tube. Label as EDTA plasma.	Detects the presence of HIV-1 envelope V3 loop variants associated with CXCR4 (X4) viruses. The use of CCR5 antagonists to treat these patients is not recommended. In addition, dectection of X4 virus prior to the initiation of therapy, has been associated with a reduced response to maraviroc.
HIV-1 Integrase Genotype	904506	2 mL frozen EDTA plasma from an LT or PPT white-top tube* (0.6 mL min). Centrifuge within 24 hours of collection and transfer plasma to a plastic vial.	Amplifies and sequences the HIV-1 integrase gene and reports mutations at positions associated with integrase inhibitor drug resistance.

HIV PrEP Baseline and Monitoring Panels

The Centers for Disease Control and Prevention (CDC) and United States Preventative Services Task Force (USPSTF) recommend pre-exposure prophylaxis, or PrEP, for patients at risk for HIV infection.

Baseline and monitoring panels are listed below. Please visit SonoraQuest.com/Test-Directory for specimen requirements.

Test Name	Test Code	Components
PrEP HIV Baseline, Female Panel w/Reflexes	803974	Includes: hCG Quantitative; Creatinine; HIV 1/2 Ag & Abs, Fourth Generation, w/Reflexes; Hepatitis C Ab w/Reflex HCV RNA Quant PCR w/Reflex Genotype LiPA; Hepatitis B Surface Antigen w/Reflex Confirm; Hepatitis B Surface Antibody; Hepatitis B Core Total w/Reflex Hep B Core IgM; Syphilis Screen w/Reflex RPR & Titer, or TPPA; Chlamydia trachomatis/N. gonorrhoeae, Aptima Device
PrEP HIV Baseline, Male Panel w/Reflexes	803972	Includes: Creatinine; HIV 1/2 Ag & Abs, Fourth Generation, w/Reflexes; Hepatitis C Ab w/Reflex HCV RNA Quant PCR w/Reflex Genotype LiPA; Hepatitis B Surface Antigen w/Reflex Confirm; Hepatitis B Surface Antibody; Hepatitis B Core Total w/Reflex Hep B Core IgM; Syphilis Screen w/Reflex RPR & Titer, or TPPA; Chlamydia trachomatis/N. gonorrhoeae, Aptima Device
PrEP HIV Monitoring, Female Panel w/Reflexes	803973	Includes: hCG Quantitative; Creatinine; HIV 1/2 Ag & Abs, Fourth Generation, w/Reflexes; Syphilis Screen w/Reflex RPR & Titer, or TPPA; Chlamydia trachomatis/N. gonorrhoeae, Aptima Device
PrEP HIV Monitoring, Male Panel w/Reflexes	803971	Includes: Creatinine; HIV 1/2 Ag & Abs, Fourth Generation, w/Reflexes; Syphilis Screen w/Reflex RPR & Titer, or TPPA; Chlamydia trachomatis/N. gonorrhoeae, Aptima Device

**Frozen PPT white-top tubes are NOT acceptable.*