

Test Definition: HIQDR

HIV-1 RNA Quantification with Reflex to
Genotypic Drug Resistance to Reverse
Transcriptase, Protease, and Integrase
Inhibitors, Plasma

Reporting Title: HIV-1 RNA Quant Reflex to Resist, P
Performing Location: Rochester

Ordering Guidance:

This test is intended for quantification of HIV-1 RNA level in plasma specimens of individuals with known HIV-1 infection and for identification of drug resistance-associated HIV-1 genotypic mutations prior to or while receiving combination antiretroviral therapy.

Prior to requesting this test, the patient must have a known HIV-1 infection. The following tests are available to screen and confirm the HIV-1 infection status:

- HVCOP / HIV-1 and HIV-2 Antigen and Antibody Routine Screen, Plasma
- HIVDX / HIV-1 and HIV-2 Antigen and Antibody Diagnostic Evaluation, Plasma

If only HIV-1 genotypic mutation testing is needed, order HIVDR / HIV-1 Genotypic Drug Resistance to Reverse Transcriptase, Protease, and Integrase Inhibitors, Plasma.

Shipping Instructions:

- 1. Ship specimen frozen on dry ice.
- 2. If shipment will be delayed for greater than 24 hours, freeze plasma specimen at -20 to -80 degrees C until shipment on dry ice.

Specimen Requirements:

Supplies: Sarstedt Aliquot Tube, 5 mL (T914)
Collection Container/Tube: Lavender top (EDTA)
Submission Container/Tube: Plastic vial
Specimen Volume: 3.6 mL

Collection Instructions:

- 1. Centrifuge blood collection tube and aliquot plasma into plastic vial per collection tube manufacturer's instructions (eg, centrifuge and aliquot within 2 hours of collection for BD Vacutainer tubes).
- 2. Freeze aliquoted plasma for shipment.

Forms:

If not ordering electronically, complete, print, and send a [Microbiology Test Request](#) (T732) with the specimen.

Specimen Type	Temperature	Time	Special Container
Plasma EDTA	Frozen (preferred)	55 days	
	Refrigerated	5 days	

Result Codes:

Result ID	Reporting Name	Type	Unit	LOINC®
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616917	HIV-1 RNA Detect/Quant, P	Alphanumeric	copies/mL	70241-5
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LOINC® and CPT codes are provided by the performing laboratory.

Supplemental Report:

No

CPT Code Information:

87536
0219U (if appropriate)

Reflex Tests:

Test Id	Reporting Name	CPT Units	CPT Code	Always Performed	Available Separately
HIVDR	HIV-1 Genotypic Drug Resistance, P	1	0219U	No	Yes

Result Codes for Reflex Tests:

Test ID	Result ID	Reporting Name	Type	Unit	LOINC®
HIVDR	616052	HIV-1 Genotypic Drug Resistance, P	Alphanumeric		80689-3
HIVDR	616729	HIV-1 group M subtype	Alphanumeric		100984-4
HIVDR	616737	Nucleos(t)ide RT mutations	Alphanumeric		45175-7
HIVDR	616918	Reverse Transcriptase failed codons	Alphanumeric		100983-6
HIVDR	616738	Abacavir	Alphanumeric		30287-7
HIVDR	616739	Didanosine	Alphanumeric		30284-4
HIVDR	616740	Emtricitabine	Alphanumeric		41402-9
HIVDR	616741	Lamivudine	Alphanumeric		30283-6
HIVDR	616742	Stavudine	Alphanumeric		30286-9
HIVDR	616743	Tenofovir	Alphanumeric		41396-3
HIVDR	616744	Zidovudine	Alphanumeric		30282-8
HIVDR	616745	Nonnucleoside RT mutations	Alphanumeric		45176-5
HIVDR	616746	Doravirine	Alphanumeric		91897-9
HIVDR	616747	Efavirenz	Alphanumeric		30291-9
HIVDR	616748	Etravirine	Alphanumeric		52749-9
HIVDR	616749	Nevirapine	Alphanumeric		30289-3
HIVDR	616750	Rilpivirine	Alphanumeric		68463-9
HIVDR	616751	Protease Mutations	Alphanumeric		33630-5
HIVDR	616919	Protease failed codons	Alphanumeric		100985-1
HIVDR	616752	Atazanavir + Ritonavir	Alphanumeric		49618-2
HIVDR	616753	Darunavir + Ritonavir	Alphanumeric		49630-7

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HIVDR	616754	Fosamprenavir + Ritonavir	Alphanumeric		51409-1
HIVDR	616755	Indinavir + Ritonavir	Alphanumeric		49619-0
HIVDR	616756	Lopinavir + Ritonavir	Alphanumeric		42000-0
HIVDR	616757	Nelfinavir	Alphanumeric		30294-3
HIVDR	616758	Saquinavir + Ritonavir	Alphanumeric		49621-6
HIVDR	616759	Tipranavir + Ritonavir	Alphanumeric		49622-4
HIVDR	616760	Integrase mutations	Alphanumeric		61199-6
HIVDR	616920	Integrase failed codons	Alphanumeric		100986-9
HIVDR	616761	Bictegravir	Alphanumeric		90080-3
HIVDR	616762	Cabotegravir	Alphanumeric		96566-5
HIVDR	616763	Dolutegravir	Alphanumeric		72857-6
HIVDR	616764	Elvitegravir	Alphanumeric		72526-7
HIVDR	616765	Raltegravir	Alphanumeric		72525-9
HIVDR	HIRVL	HIV RNA level copies/mL <30 days =	Alphanumeric		89543-3

Reference Values:
Undetected