

HIV Specimen Collection Guide

Test Name	Monogram Test N°	LabCorp Test N°	Clinical Use	Viral Load Requirement	Specimen Volume
PhenoSense GT®	V7000	551690	Determines viral phenotype and genotype resistance to antiretroviral drugs (NRTIs, NNRTI, and PIs). Viral replication capacity is also included.	≥500 copies/mL	3 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to PhenoSense GT	Graphical: V1000G Nongraphical: V1000N	Graphical: 550510 Nongraphical: 550450	Detect and quantitate HIV-1 in plasma with reflex to PhenoSense GT if viral load is ≥500 copies/mL.	N/A	6 mL plasma
PhenoSense GT® Plus Integrase*	M7000	551920	Determines viral phenotype and genotype resistance to antiviral drugs (NRTIs, NNRTIs, PIs, and INIs).	≥500 copies/mL	5 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to PhenoSense GT® Plus Integrase	Graphical: V1000G Nongraphical: V1000N	Graphical: 550711 Nongraphical: 550625	Detect and quantitate HIV-1 with reflex to PhenoSense GT Plus Integrase if viral load ≥500.	NA	6 mL plasma
PhenoSense®	V3200	551800	Determines viral phenotype resistance to antiretroviral drugs (NRTIs, NNRTI, and PIs). Viral replication capacity is also included.	≥500 copies/mL	3 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to PhenoSense	Graphical: V1000G Nongraphical: V1000N	Graphical: 550520 Nongraphical: 550470	Detect and quantitate HIV-1 in plasma with reflex to PhenoSense if viral load is ≥500 copies/mL.	N/A	6 mL plasma
PhenoSense Integrase®	S3200	550230	Determines viral phenotype resistance to integrase inhibitors. Viral replication capacity is also included.	≥500 copies/mL	3 mL plasma
PhenoSense Entry®	E2000	550240	Determines viral phenotype resistance to enfuvirtide.	≥1000 copies/mL	3 mL plasma
GenoSure PRIme®**	P5000	551700	Detect resistance in HIV-1 to antiretroviral drugs (NRTIs, NNRTIs, PIs, and INIs)	≥500 copies/mL	5 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to GenoSure PRIme	Graphical: V1000G Nongraphical: V1000N	Graphical: 550630 Nongraphical: 550655	Detect and quantitate HIV-1 in plasma with reflex to GenoSure PRIme if viral load is ≥500 copies/mL.	N/A	6 mL plasma
GenoSure® MG*	G5000	551697	Detect resistance in HIV-1 to antiretroviral drugs (NRTIs, NNRTIs, and PIs)	≥500 copies/mL	5 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to GenoSure MG	Graphical: V1000G Nongraphical: V1000N	Graphical: 550422 Nongraphical: 550432	Detect and quantitate HIV-1 in plasma with reflex to GenoSure MG if viral load is ≥500 copies/mL.	N/A	6 mL plasma
GenoSure Archive®	R6000	551776	Detect resistance of HIV-1 to protease, reverse transcriptase and integrase inhibitors in cell-associated viral DNA.	For patients with an undetectable viral load.	4 mL whole blood
Trofile® DNA	E3600	829670	Detect HIV-1 coreceptor tropism to determine eligibility for a CCR5 antagonist.	For patients with an undetectable viral load.	4 mL whole blood
Trofile®	E3100	553100	Detect HIV-1 coreceptor tropism to determine eligibility for a CCR5 antagonist.	≥1000 copies/mL	3 mL plasma
HIV-1, Quantitative, RT-PCR, with Reflex to Trofile®	Graphical: V1000G Nongraphical: V1000N	Graphical: 550390 Nongraphical: 550310	Detect and quantitate HIV-1 in plasma with reflex to Trofile if viral load is ≥1000 copies/mL.	N/A	6 mL plasma
Trofile® Select	E3000T	553355	Allows for the determination of HIV-1 coreceptor tropism status, by which the appropriate assay, Trofile® or Trofile® DNA, is selected through an initial prescreening viral assessment. The coreceptor tropism status may be used to determine eligibility for CCR5 antagonist therapy, such as maraviroc (Selzentry®).	N/A	5 mL plasma and 4 mL whole blood
HIV-1, Quantitative, Real-Time PCR (Graphical or Nongraphical)	Graphical: V1000G Nongraphical: V1000N	Graphical: 550420 Nongraphical: 550430	Quantitative measurement of HIV-1 RNA in plasma.	N/A	3.5 mL plasma

*Note: This procedure may not be successful when the HIV viral load is <500 copies/mL plasma. If there is insufficient virus to produce results, HIV-1 RNA quantitation will be performed to confirm viral load, and the procedure will be billed at the account's prevailing fee.

Visit the online Test Menu at www.LabCorp.com for full test information, including CPT codes and specimen collection requirements.

Contact Monogram customer service at **800-777-0177** 6:30 am – 5:00 pm Pacific time (9:30 am – 8:00 pm Eastern time) with any questions.

Plasma Sample Collection and Preparation for Resistance assays and Trofile (excluding Trofile® DNA)



1. Collect whole blood by venipuncture.

For tests with sample volumes of 3.0 or 3.5 mLs plasma either:

- ▶ Two EDTA (lavender-top) tubes (preferred)
- OR**
- ▶ Two 5.0 mL PPT (pearl-top) tubes

For tests with sample volumes of 5.0 or 6.0 mLs plasma either:

- ▶ Three EDTA or three 5.0 mL PPT tubes when ordering a viral load assay with reflex to a resistance assay

Note: PPT tubes are acceptable for collecting viral load and resistance testing, but samples for viral load assays cannot be frozen in a PPT tube; viral load assays must be transferred to a screw-cap tube.



2. Spin immediately at 1,000 to 1,200 g for 10 to 15 minutes at room temperature.



3. Don't leave samples in centrifuge after spinning.

4. Prepare for freezing:

- ▶ For PPT samples, freeze directly in tube

Note: Specimens collected in a PPT tube for viral load assays MUST be transferred to a screw-cap tube prior to freezing.

OR

- ▶ For EDTA samples, aliquot plasma and transfer to screw-cap tube



5. Freeze immediately at -20°C.
Sample should be frozen solid before shipping.

Note: Do not place samples on dry ice until completely frozen.

CHECKLIST FOR MORE SUCCESSFUL RESULTS

- Verify that your patient's viral load is appropriate for the assay.
- When you draw blood, be sure there's enough specimen in each tube.
- Process the sample according to the appropriate instructions.
- Do **NOT** leave samples in the centrifuge after spinning. (Note: Trofile® DNA and GenoSure Archive specimens should **NOT** be centrifuged.)
- If frozen samples thaw, **DO NOT** refreeze.

TOP 3 REASONS TEST CANNOT BE PERFORMED:

1. Low viral load.
2. Unfrozen specimens or specimens exposed to repeated freeze-thaw cycles.
3. Unlabeled specimens.

Whole Blood Sample Preparation for Trofile® DNA and GenoSure Archive®



1. Draw 4 mL of whole blood into an EDTA (lavender-top) tube.

2. DO NOT CENTRIFUGE.

3. Freeze immediately at -20°C.
Sample should be frozen solid before shipping.

Note: Do not place samples on dry ice until completely frozen.

Sample Collection and Preparation for Trofile® Select

- ▶ Both plasma and whole blood samples must be collected and processed.