

# 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](http://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.

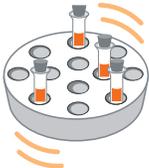
For tests with sample volumes of 3.0 or 3.5 mLs plasma either:

- ▶ 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.