

SPECIMEN SUBMISSION GUIDELINES

HIV Diagnostics and Reference Laboratory
US Military HIV Research Program, Walter Reed Army Institute of Research
9100 Brookville Road, BLDG 508, Silver Spring, MD 20910

HIV-1 Resistance Genotype Test Specification

| Test Name: HIV-1 Genotype | | | | |
|---|---|---|---|---|
| Clinical Significance | Specimen Requirements | Transport/Storage Temperature | Test Approved For | Turn Around Time (After Receipt at HDRL) |
| <p>Intended for use in detecting genomic mutations within protease and reverse transcriptase regions of HIV-1 that confer resistance to antiretroviral drugs.</p> <p>Intended for use in conjunction with clinical presentation and other laboratory markers as an indicator of disease progression and as an assay to monitor or assess viral response to antiretroviral treatment.</p> <p>The test is available for all patients who are: (1) initiating drug therapy; (2) not responding to antiretroviral drug therapy (low viral RNA level at 1,000 to 3,000 copies/ml); or (3) failing their antiretroviral regimen.</p> <p>Test employed: FDA-approved, commercially available test kit from Abbott Viroseq HIV-1 Genotype Assay.</p> | <p>Two (2) vials of non-heparinized plasma at 1 ml per tube</p> <p>Centrifuge at room temperature at 800-1600 x g for 20 minutes within separation times below:</p> <p>PPT Tubes: Centrifuge immediately or within 2 hours of collection. Store at ambient temperature for overnight delivery, or transfer to sterile 2.0 ml polypropylene screw-cap tubes at 1 ml per tube and store at -60 to -80°C.</p> <p>EDTA Plasma: Store blood at 25°C until centrifuged. Centrifuge within 4 hours of collection. Aliquot EDTA plasma to sterile 2.0 ml polypropylene screw-cap tubes at 1 ml per tube. Store at -70°C.</p> <p>Please note: Patients presently on antiretroviral drug therapy should still be on their drug regimen when specimen is collected.</p> | <p>PPT Tubes: Store spun tubes refrigerated (2-8°C) for overnight or same day delivery. If transport longer than overnight or same day, aliquot plasma, freeze at -70°C, then ship frozen. Store plasma frozen (-70°C or colder).</p> <p>EDTA Plasma: Store refrigerated (2-8°C) for overnight or same day delivery. If transport longer than overnight or same day, aliquot plasma, freeze at -70°C, then ship frozen. Store plasma frozen (-70°C or colder).</p> <p>Use 2 lbs. dry ice per day of transport.</p> <p>Recommended: Ship on 6 lbs dry ice in case of shipment delay.</p> | <p>FDA approved for clinical monitoring of HIV-infected individuals</p> | <p>15 business days</p> <p>Due to low volume of tests requested, samples are batched for testing.</p> |
| <p>Please note:</p> <ol style="list-style-type: none"> 1. Viral load MUST BE \geq 2,000 copies/ml and result must have been obtained within the past 30 days. Viroseq HIV-1 Genotype testing can be performed if viral load is between 1,000 to 2,000 copies /ml, but a resistance profile may not be generated. 2. When requesting HIV-1 Genotype, requesting lab must provide most recent Viral Load result on request form at time of submission. 3. If the patient has not had a Viral Load determination within the past 30 days, request a HIV-1 Viral Load along with the HIV-1 Genotype request. 4. Any specimen without a Viral Load reported (or a Viral Load requested) on the request form will need resolution and may affect Turn Around Time. 5. Duplicate specimens will be discarded. | | | | |

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