



## HUMAN IMMUNODEFICIENCY VIRUS TYPE 1 (HIV-1) QUANTITATIVE PCR

**Synonym(s):** HIV-1 RNA Load

**Back To Previous Page** (javascript: history.go(-1))

<b>Lab Section Category</b>	<b>Molecular Diagnostics - Microbiology</b> Click here to find out more about the <b>write-up</b> ( <a href="/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/moleculardiagnosics.aspx">/clinical-departments-centers/pathology/pathology-handbook/lab-discipline-special-instructions/pages/moleculardiagnosics.aspx</a> ).
<b>Indications</b>	<ol style="list-style-type: none"> <li>1) To obtain the baseline viral load in newly diagnosed cases of HIV-1 infection for prognostication.</li> <li>2) To monitor disease progression in HIV-1 infected patients.</li> <li>3) To monitor treatment response during the course of anti-retroviral therapy (ART).</li> </ol> <p>Please note that this assay is NOT intended for use in the diagnosis of HIV-1 infection. This test is able to detect HIV-1 group M subtypes and HIV-1 group O.</p>
<b>Specimen Required</b>	At least 6 mL blood in sterile EDTA container (lavender top) (3 tubes).
<b>Storage and Transport</b>	Transport sample at 2-25 °C to arrive in the laboratory preferably within 24 hours of collection and no later than 48 hours. Plasma may be transported at 2-8°C or frozen at -20 °C to -80 °C. Plasma specimens may be stored at room temperature (25-30°C) for up to 3 days, at 2-8 °C for up to 7 days or frozen at -20 °C to -80 °C for at least six weeks.
<b>Method</b>	Real-time PCR (Roche COBAS® AmpliPrep/COBAS® TaqMan HIV-1 Test, v.2.0)
<b>Test Result</b>	Detected or Not Detected (quantity reported in copies/ml and IU/mL) Linear Range : 20 to 1.00 X 10 <sup>7</sup> copies/mL or 33 to 1.67 X 10 <sup>7</sup> IU/mL
<b>Turnaround Time</b>	1 - 8 days
<b>Day(s) Test Set up</b>	Wednesday
<b>Remarks</b>	The assay detects HIV-1 group M (subtypes A-H) and HIV-1 group O viruses.

[Back To Previous Page \(javascript: history.go\(-1\)\)](#)

### Change History Notes

- **14 Feb 2012 08:50 AM**  
New test available w.e.f. 15 Feb 2012
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- **16 Jan 2017 11:17 AM**  
Day(s) Test Setup: Last updated on 16/01/17.
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