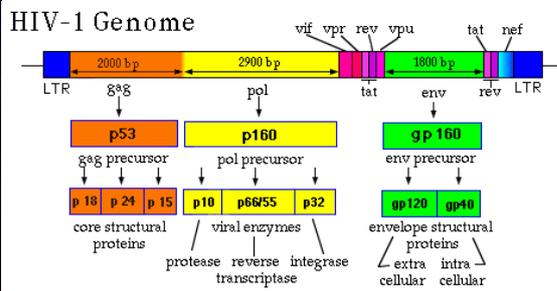
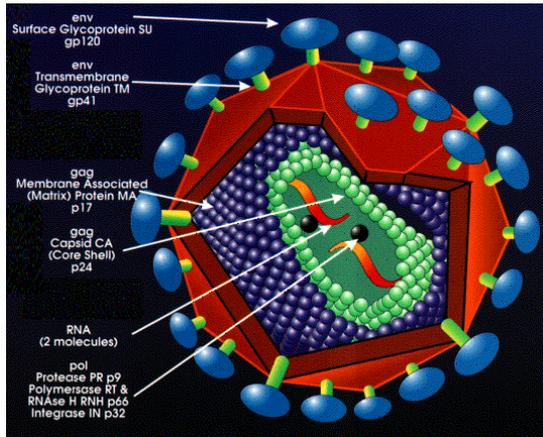


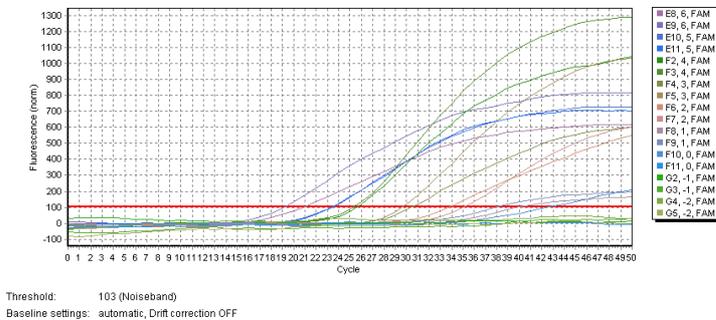
HIV-1 RNA Quantitation Using Real Time PCR- pol gene region



cc2/95

HIV-1 RNA Quantitation or HIV-1 Viral Load is done with plasma samples of HIV+ patients. At Intrepid Nepal Pvt.Ltd. utmost care is taken to make sure sample integrity is maintained throughout the test protocol. With its highest sensitivity and specificity assay, HIV-1 Viral Load determination done at Intrepid is accurate and represents wide dynamic range of detection.

INTREPID NEPAL PVT.LTD HIV-1 POL GENE REGION TARGET AMPLIFICATION WITH STANDARDS FOR QUANTITATION





Comparison of Intrepid's Result with Lal Pathology (India) and Religare (India)-

Sample number	Intrepid Nepal	LAL (India)	Religare (India)
098	<200	236	<50
100	4,86,000	25,109	91,444
104	<200	<25	<50
096	2,20,000	1,64,154	Not tested
097	<200	<25	Not tested
099	<200	Not tested	Not tested
103	<200	2013	Not tested

In order to validate HIV-1 Viral Load results done at Intrepid Nepal Pvt.Ltd. 7 samples were tested at Intrepid Nepal's lab in Thapathali and same samples were sent to Lal Pathology Lab in India, and also 3 samples were sent to Religare of India. The results obtained is tabulated above.

Observations on the comparative study-

- Intrepid Nepal Pvt.Ltd. HIV-1 Viral load test had wide dynamic range-between low copy numbers and high copy numbers.
- Fresh sample tests were more sensitive than test done in India which had 2 day shipping time. HIV-1 is RNA virus and it deteriorates rapidly and if not tested immediately the viral load number registers in low copies. (Sample #100 and Sample #96)
- Intrepid Nepal Pvt.Ltd. reports HIV-1 Viral Load less than 200 copies/ml as <200 copies/ml. For all purpose clinical interpretation, any viral load that is less than 500 Copies/ml is considered negligible, meaning either ART is working well or there is no significant presence of HIV-1 RNA in plasma.
- It is crucial that HIV-1 Quantitation (Viral Load) should be done in fresh plasma or serum within 12 hours of drawing of blood. Long transportation damages HIV-1 RNA and hence tests done on such samples will yield significantly low viral load.



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