

Patient Name : Demo Patient Name
Age / Sex : 33 Y / M
Referred By : DEMO HOSPITAL
Centre : HOD Head Office

Lab No : Demo Visit No
Registration On : 21-Jan-25 11:51
Patient ID : UHID.DEMO.001

HBV DNA by PCR [Quantitative]

EDTA Whole Blood Sample

Accession No: DEMO_BARCODE **Collected On:** 21-Jan-25 11:51 **Received On:** 21-Jan-25 15:03 **Approved On:** 23-Jan-25 18:23

Observation	Result	Unit	Biological Ref. Interval	Method
HBV DNA Target	Detected			RT-PCR
HBV DNA Detection	4459	IU/ml		RT-PCR
Log10 Value	3.6			Calculated

IU/mL	Comments
Not Detected	Sample provided does not contain Hepatitis B Virus DNA.
> 5 < 10	Hepatitis B Virus DNA Not Detected or below the Detection Limit of the Assay.
10 - 1.0 x 10 ⁸	Hepatitis B Virus DNA Detected within the Linear Range of the Assay.
> 1.0 x10 ⁸	Hepatitis B Virus DNA Detected above the Linear Range of the Assay.

Methodology:

The test is based on Real Time Polymerase Chain Reaction (RT-PCR) technology, utilizing PCR for the amplification of target sequences, and target specific probes for the real time quantification of the amplified DNA. The probes are labelled with fluorescent reporter and quencher dyes. The reagent system includes a heterologous amplification system (Internal Control) to identify possible PCR inhibition and to confirm the integrity of the reagents.

Comments:-

Hepatitis B Virus (HBV) may cause acute and chronic hepatitis and is transmitted mainly by body fluids especially serum, sexual transmission, and transmission from mother to baby. Complete recovery is seen in majority of infected individuals, but persistent viral replication may cause chronic hepatitis in 1 to 2%. In immuno compromised patients chronic HBV infection may be up to 5 to 20% and in neonates 80%.

Note :-

1. The analytical sensitivity of the kit is 5 IU/mL. Linear reporting range of the assay is 10 - 1.0x10⁸ IU/mL.
2. Paradoxical results may be seen in contaminated samples, selection of in appropriate specimen and inherent PCR inhibitors in the specimen or use of different technologies.
3. The conversion factor calculated for HBV PCR kit: 1 IU/mL corresponds to approximately 4.53 Copies/mL.

Uses:-

1. Monitoring response to therapy in chronic HBV infection. Predicts the response to favourable treatment outcome.
2. Reappearance or increasing viral load may indicate relapse or resistance to the therapy.
3. Used in conjunction with other serological markers in the management of HBV infection.



This is a Demo Signature
and the doctor's signature should appear here

In case of any unexpected or alarming results, please contact us immediately for re-confirmation, clarifications, and rectifications, if needed.

