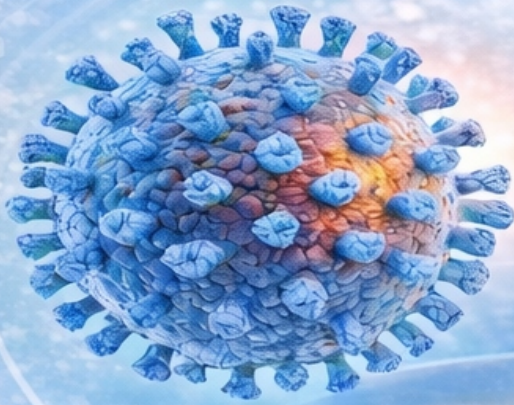


Genlisa™

HBsAg ELISA KIT



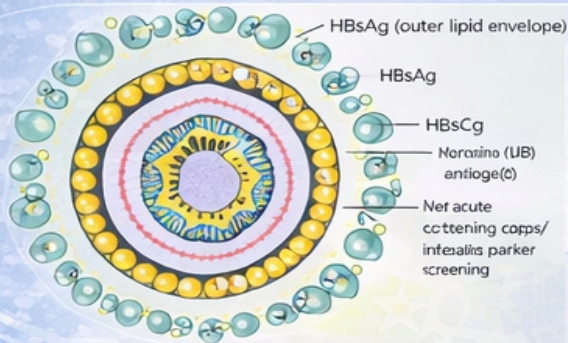
Salient Features

- ✓ Detects all the known 11-subtypes of HBV
- ✓ Antigen Sensitivity: 0.1ng/mL
- ✓ Two step Immunoassay.
- ✓ Short protocol: Based on single washing step.
- ✓ Assay Procedure: 90 mins.
- ✓ Shelf life: 24 months at 2-8°C.
- ✓ Convenient pack size: 96 tests
- ✓ Break-away wells for minimal wastage
- ✓ Easy interpretation of result by WHO.



HBV: The Silent Killer

Hepatitis B is a potentially life-threatening liver infection caused by the Hepatitis B Virus (HBV). It is a major global health problem and one of the most serious types of viral hepatitis - which can lead to chronic liver disease, cirrhosis, and hepatocellular carcinoma.

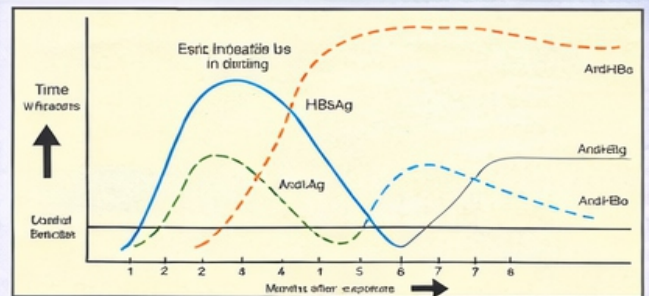


HBV belongs to the **Hepadnaviridae** family and consists of an outer lipid envelope and a partially double-stranded DNA core. The outer surface contains Hepatitis B Surface Antigen (HBsAg), which is a key marker used for diagnosis and screening of infection.

Serological & Clinical Pattern During HBV Infection

- **HBsAg** – First detectable marker in acute infection
- **HBeAg** – Indicates active viral replication.
- **Anti-HBs** – Indicates recovery and immunity
- **Anti-HBc (IgM/IgG)** – Marker of current or past infection

HBsAg can be detected in serum during both acute and chronic phases of infection and is widely used as a primary screening marker.



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Principle of the Test

- 1 Microplate wells are coated with monoclonal antibodies specific to HBsAg
- 2 Patient serum/plasma samples are added to the wells
- 3 If HBsAg is present, it binds to the coated antibodies
- 4 An enzyme-conjugated secondary antibody (HRP conjugate) is added
- 5 A sandwich complex is formed

Intensity of color, substrate is added → color develops

Ordering Information

Product Name	Cat No.	Pack Size
Genlisa™ HBsAg ELISA KIT	GLHB5001	96
Genlisa™ HBsAg ELISA KIT	GLHB5002	480

Test Procedure (Summary)

- 1 Add samples and controls into coated wells
- 2 Incubate at recommended temperature
- 3 Wash wells to remove unbound material
- 4 Add enzyme conjugate
- 5 Incubate and wash again
- 6 Add substrate solution
- 7 Stop reaction and read absorbance

Key Advantages

- ✓ High sensitivity and specificity
- ✓ Reliable and reproducible results
- ✓ Easy-to-use protocol
- ✓ Suitable for high-throughput screening