

Hepatitis Tests

The hepatitis viruses cause viral infection that attacks the liver and can cause both acute and chronic disease. Several different viruses cause hepatitis, including hepatitis A, B, C, D, and E. Wantai BioPharm's diagnostic products can be used to detect the disease.

Hepatitis B

HBV

A member of the Hepadnaviridae family of viruses, the Hepatitis B virus (HBV) is an enveloped, double-stranded DNA virus, which causes viral infection that attacks the liver and can cause both acute and chronic disease. HBV is recognized as the major cause of blood transmitted Hepatitis. Aside from blood, the virus can be present in body fluids, including semen and vaginal fluids.

The diagnosis of an HBV infection focuses on the detection of the Hepatitis B surface antigen HBsAg. To classify an HBV infection several serological markers expressed during the three phases (incubation, acute and convalescent) need to be identified.

ELISA Tests

AiDTM HBsAg ELISA - [View Information Pack](#)

The Hepatitis B surface antigen HBsAg is the most important protein of the envelope of HBV. Four HBsAg subtypes have been identified (adw, ady, ayw, and ayr). Wantai BioPharm's high-sensitivity HBsAg ELISA kit recognizes most of the antigen's mutants. The antigen can be detected three to five weeks before symptoms are developed.

HBeAg ELISA - [View Information Pack](#)

The "e" antigen is a viral protein associated with HBV replication indicating a high viral load. In chronic Hepatitis B infections, elevated levels of HBeAg can be detected for years. Wantai BioPharm's HBeAg ELISA is used to detect the HBeAg antigen.

HBeAb ELISA - [View Information Pack](#)

Once treated, HBeAg is the first serological marker that becomes negative and is replaced by the corresponding antibody anti-HBe. Wantai BioPharm's HBeAb is used for the qualitative determination of e antibody to the HBV core antigen (HBeAb) in serum or plasma.

HBcAb ELISA - [View Information Pack](#)

HBcAb is a marker of acute, chronic or resolved HBV infection. Wantai BioPharm's HBcAb ELISA is used for the qualitative determination of the antibody to core antigen of Hepatitis B virus (HBcAb) in serum or plasma.

HBcAb ELISA (Sandwich)

Wantai BioPharm's HBcAb sandwich ELISA is used for qualitative determination of the Hepatitis B Virus Core Antibody (HBcAb) in human serum, plasma or other biological fluids.

HBcAb IgM ELISA - [View Information Pack](#)

Shortly after the appearance of the Hepatitis B surface antigen HBsAg, antibodies to HBcAg are being produced. These persist for life both in people who have recovered from an HBV infection as well as in those who develop HBsAg carrier status. Wantai BioPharm's HBcAb IgM ELISA detects the presence of anti-Hepatitis B virus core antibody IgM (HBcAb-IgM).

HBsAb (Quantitative) ELISA

Wantai BioPharm's HBsAb (Quantitative) ELISA detects antibodies to the Hepatitis B virus surface antigen (anti-HBs) in human serum or plasma. During the acute phase of HBV infection, increasing titers of HBsAg neutralizing antibodies are a marker for recovery.

HBV NRAg ELISA

Hepatitis B virus particle's pre-S1 protein and core antigens are markers of viral replication, and they are highly correlated with the amount of HBV DNA, collectively known as Hepatitis B virus nucleic acid related antigen (HBV NRAg). Wantai BioPharm's HBV NRAg ELISA detects HBV NRAg.

Rapid Tests

HBsAg Rapid Test (s/p/wb) - [View Information Pack](#)

The HBsAg Rapid Test (s/p/wb) can be used to test for the Hepatitis B Virus Surface Antigen HBsAg and delivers a result within 30 minutes.

HBsAb Rapid Test (s/p/wb) - [View Information Pack](#)

The HBsAb Rapid Test (s/p/wb) can be used to detect the Hepatitis B Virus Surface Antibody HBsAb and delivers a clear result in only 20 minutes.