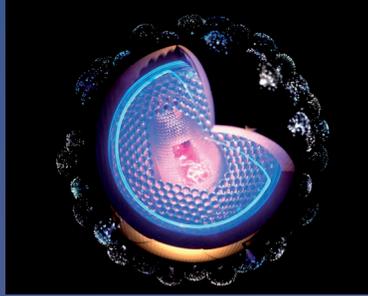


HEP.B

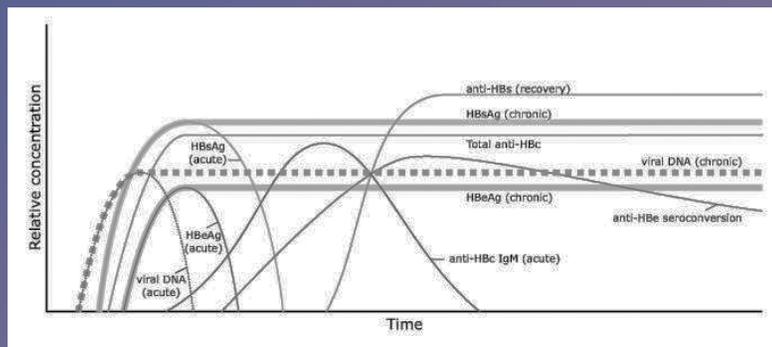
Reliability of diagnosis of Hepatitis B: High Quality of Products & Complete Line of Tests



Serological markers are key elements in diagnosing acute hepatitis B virus (HBV) infection and determining its possible evolution towards chronicity.

When hepatitis B virus (HBV) infection is suspected, it is the appearance of serum markers of HBV infection that establishes the diagnosis of the disease. HBsAg is considered to be the sentinel marker for the confirmation of acute infection; its presence can be detected as early as 6 weeks after exposure. HBsAg is also the key marker in determining whether hepatitis B infection has become chronic: defined as the persistence of the surface antigen for at least 6 months.

By contrast, if acute disease resolves, HBsAg declines followed by a subsequent rise of antibodies to the surface antigen (anti-HBs) upon recovery. Serum HBV DNA and HBeAg are two other key markers indicative of active viral replication.



Evolution of HBV markers in acute and chronic infection.

HBV DNA testing

HBV DNA assays provide very useful adjunct information concerning viral replication – especially in situations when patient serological profiles fall outside of classical patterns:

- *Earliest indicator of infectivity*
- *Can help monitor effectiveness of antiviral therapy*
- *Can help assess ongoing disease activity in chronic infections*
- *Can indicate and confirm emergence of antiviral resistance*
- *Direct marker and gold standard for HBV viral replication*
- *Useful marker of infectivity in presence of precore/core promoter mutants*
- *Confirmation of spontaneous remission or co-infection*



DIA.PRO Diagnostic Bioprobes S.r.l.
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The Line

CODE	KIT NAME
BCAB.CE	HBc Ab (screening)
BCM.CE	HBc IgM (capture quantitative)
HBE.CE	HBe Ag&Ab
SAB.CE	HBs Ab (quantitative)
SAG1ULTRA.CE	HBs Ag one Version ULTRA (screening)
SCONF.CE	HBs Ag Confirmation
BDNA.CE	HBV DNA (NEW)

Main features

- *HBsAG ULTRA, fourth generation quantitative Enzyme Immunoassay (ELISA) for the one-step determination of Hepatitis B surface Antigen or HBsAg in human plasma and sera. The kit may be used for the screening of blood units, is able to detect HBsAg "s" mutants and find application in the follow-up of HBV infected patients.*
- *HBVDNA.CE, high sensitivity and specificity; storage temperature of +2..8°C; internal control to monitor DNA amplification; adapted on a wide range of RT-PCR instruments*
- *Reliable diagnosis through the use of HBsAg Confirmation kit*
- *All kits are CE-marked*
- *Multiple kit format (no waste):*
 - **Elisa: 96/192/480/960**
 - **RT-PCR: 25/50/100/150**
- **Automated protocols on DIA.BLOOD and on others well-known Elisa work stations**

CE



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