

QuickTiter HBV Core Antigen ELISA Kit

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CATALOG #

AAA11405

PRODUCT SYNONYMS

QuickTiter HBV Core Antigen; QuickTiter HBV Core Antigen ELISA Kit; QuickTiter HBV Core Antigen elisa kit

PRODUCT SPECIFICATIONS

Preparation and Storage

Upon receiving, aliquot and store recombinant HBVcAg Standard at -20 degree C and avoid freeze/thaw. Store all other components at 4 degree C until their expiration dates.

IMAGES

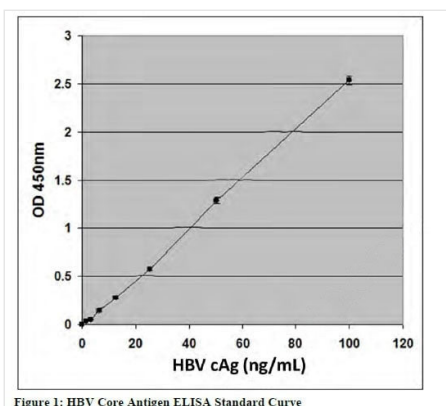


Figure 1: HBV Core Antigen ELISA Standard Curve

Standard Curve (Sample)

ADDITIONAL INFORMATION

Related Product Information for QuickTiter HBV Core Antigen elisa kit	Principle of the Assay: An anti-HBVcAg monoclonal coating antibody is adsorbed onto a microtiter plate. HBV core antigen present in the sample or standard binds to the antibodies adsorbed on the plate; a FITC-conjugated mouse anti-HBVcAg antibody is added and binds to the antigen captured by the first antibody. Following incubation and wash steps, a HRP-conjugated mouse anti-FITC antibody is added and binds to the FITC conjugated anti-HBVcAg. Unbound HRP-conjugated mouse anti-FITC antibody is removed during a wash step, and substrate solution reactive with HRP is added to the wells. A colored product is formed in proportion to the amount of HBV core antigen present in the sample. The reaction is terminated by addition of acid and absorbance is measured at 450 nm. A standard curve is prepared from recombinant HBV core antigen and sample concentration is then determined.!!Background/Introduction: Hepatitis B is an infection of the liver caused by the hepatitis B virus. HBV is transmitted by exposure to infectious blood or body fluids (e.g. saliva, semen, urine); forms of transmission include unprotected sexual activity, blood transfusion, mother-to-infant transmission, or consuming contaminated food/water. The acute illness causes liver inflammation, vomiting and jaundice, while chronic HBV infection often leads to liver cirrhosis and cancer. Roughly one third of the world's population have been infected with hepatitis B virus. 5-10% of adults and 90% of babies who have been infected will have the virus for the rest of their lives. The infection is preventable by vaccination. Identification of chronic hepatitis B virus (HBV) infection has long been based on HBV serology and measurement of hepatocytic enzymes. With the development of therapies for chronic HBV infection, including interferon and lamivudine, quantitative detection of HBV has been used increasingly as the most important marker for monitoring HBV replication activity, disease progression, and assessing antiviral treatment. Several assays for the quantitative measurement of HBV DNA have been developed, such as PCR-based nucleic acid amplification assays. However, these methods tend to be cumbersome and expensive. QuickTiter™ HBV Core Antigen ELISA Kit is an enzyme immunoassay developed for detection and quantitation of the HBV core protein. The kit has detection sensitivity limit of 1 ng /mL HBcAg. Each kit provides sufficient reagents to perform up to 96 assays including standard curve and HBV samples.
Product Categories/Family for QuickTiter HBV Core Antigen elisa kit	Pathogen and Toxin Assays; Virus Core Antigen Detection; HBV Core Antigen ELISA
References	1. Bottcher, B., S. A. Wynne, and R. A. Crowther (1997) Nature 386:88-91. 4 2. Bredehorst, R., H. von Wulffen, and C. Granato (1985) J. Clin. Microbiol. 21:593-598. 5 3. Kimura, T., A. Rokuhara, Y. Sakamoto, S. Yagi, E. Tanaka, K. Kiyosawa, and N. Maki (2002) J. Clin. Microbiol. 40:439-445. 15 4. Usuda, S., H. Okamoto, F. Tsuda, T. Tanaka, Y. Miyakawa, and M. Mayumi (1998) J. Virol. Methods 72:95-103. 30

For Research Use Only. Not for use in diagnostic or therapeutic procedures. Small volumes of product may become entrapped in the seal of the vial during shipment and storage; if necessary, briefly centrifuge the vial on a tabletop centrifuge to dislodge any liquid in the cap.

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Online datasheet: <https://stage.aaabiotech.com/elisa-kits/quicktiter-hbv-core-antigen/11405>