

Product Specification Sheet

**Hepatitis B surface Antigen (HBsAg), Purified, antigen grade**

□ Cat. # HBA35-N-500    Hepatitis Surface Antigen (HBsAg), Recombinant, purified    **SIZE:** 0.5 mg

Hepatitis B virus (HBV) is an enveloped, double-stranded DNA virus belonging to the Hepadnaviridae family and is recognized as the major cause of blood transmitted hepatitis together with hepatitis C virus (HCV). Infection with HBV induces a spectrum of clinical manifestations ranging from mild, in apparent disease to fulminant hepatitis, severe chronic liver disease, which in some cases can lead to cirrhosis and carcinoma of the liver. Classification of a hepatitis B infection requires the identification of several serological markers expressed during three phases (incubation, acute and convalescent) of the infection. Now several diagnostic tests are used for screening, clinical diagnosis and management of the disease.

Hepatitis B surface antigen (HBsAg) is an important viral envelope protein, which appears shortly after infection and is a key serological marker for detection and diagnosis of HBV. Clearance during treatment shows recovery and development of neutralizing antibodies (anti-HBs) occurs in 90% of the patients. Due to the introduction of hepatitis B vaccination programs, the detection of anti-HBs has become important method for monitoring of recipients upon vaccination with synthetic and natural HBsAg. The absence of anti-HBs indicates susceptibility to HBV infection. For this, screening for anti-HBs in high-risk populations is recommended for identifying individuals who may benefit from vaccination.

**Source of Antigen**

HBsAg (Ad/Ay) was expressed in E. coli and purified using proprietary methods (>95%, mol wt ~23 kDa). It is supplied in PBS, pH 7.4 in liquid or lyophilized in the same buffer (lot sp. concn is supplied on the vial). **Reconstitute** powder in PBS, pH 7.4 at 1 mg/ml. Store at -20°C or below in suitable aliquots.

**Recommended Usage**

ELISA, Western

\*This product is for In vitro research use only.

**Related material available from ADI**

Catalog# ProdDescription

4100 Hepatitis B Surface Antigen (HBsAg) ELISA kit, Quantitative

4200 Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,  
4210 Mouse Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,

4220-AHB Anti-Hepatitis B Surface Antigen (anti-HBsAg) ELISA kit,

4230-AHB-R, Anti-Hepatitis B Surface Antigen (anti-HBsAg) rapid test strips

AB-15010 Mouse Anti-Hepatitis B Virus (AD & AY Antigens) IgG  
AB-15610 Mouse Anti-Hepatitis C Virus NS3 IgG  
AB-15810 Mouse Anti-Hepatitis D Virus IgG

AB-16310 Anti-Hepatitis B Surface Antigen A IgG  
HBA11-A Anti-Hepatitis Surface Antigen (HBsAg) IgG, aff pure

HBA12-M Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 1)  
HBA13-M Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 2)

HBA14-M Mouse anti-Hepatitis Surface Antigen (HBsAg) (clone 3)  
HBA15-A Anti-Hepatitis Surface Antigen (HBsAg) IgG, aff pure

HBA25-N-100 Hepatitis Surface Antigen (HBsAg), Native, purified

HBA35-N-500 Hepatitis Surface Antigen (HBsAg), Recombinant, purified

HBA35-N-500    160504SV

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