

## Purified HBsAg from human serum (subtype ayw, adw, adr, ayr)

Hepatitis B virus (HBV) expresses three types of surface antigens, i.e. S-, M-, and L-protein. L-protein is composed of S-, Pre-S2, and Pre-S1 region. The deletion of Pre-S1 region forms M-protein and further deletion of Pre-S2 region results in S-protein.

When infected by HBV, hepatic cells produce large amount of virus-like particles (VLPs) , or HBsAg and released into blood stream. The HBsAg are composed of particles consisting of S-protein or a mixture of S- and M-proteins. Thus, the detection of S region is the important diagnostic marker of on-going HBV infection.

This product is purified HBsAg from HBV-infected human serum. The product is heat-inactivated to reduce the risk of accidental infection. Subtypes of adw, adr, ayw and ayr are available.

### General information

Source : human serum  
 Appearance : Liquid form (PBS with 5% sucrose with 0.01 sodium azide )  
 Purity : over 95%  
 Storage : 4°C (3 years guarantee after dispatch)  
 Inactivation : heat treated (60°C for 15 hrs)  
                   :HIV -1, HIV-2, HCV negative  
 Usage : Standard antigen for ELISA, western, and others

### Product variation and product #

product#	product name
BCL-HSYW-01	Purified HBsAg from human serum, ayw heat inactivated
BCL-HSDW-01	Purified HBsAg from human serum, adw heat inactivated
BCL-HSDR-01	Purified HBsAg from human serum, adr heat inactivated
BCL-HSYR-01	Purified HBsAg from human serum, ayr heat inactivated

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### SDS-PAGE (silver staining)



Purified HBsAg contains S and M proteins with different sugar chain modification and polymer formations, so that many banda are seen.