

Purified HBsAg from human serum (subtype ay, ad)

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 amounts 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, and is heat-inactivated to reduce the risk of accidental infection. Subtypes of ad and ay are available.

General information

Source	: human serum
Appearance	: Liquid form (PBS with 5% sucrose and 0.01% sodium azide)
Purity	: over 95%
Concentration	: 1 – 2 mg/mL
Storage	: –20°C (3 years)
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 code

Product Code	Product Name
BCL-HSYW-01	Purified HBsAg from human serum, ay, heat-inactivated
BCL-HSDW-01	Purified HBsAg from human serum, ad, heat-inactivated

SDS-PAGE (silver staining)



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