

## Active Recombinant HBsAg

**Cat. No.** HBsAg-258H    **Lot. No.** (See product label)

### SPECIFICATION

<b>Product Overview</b>	Recombinant Hepatitis B Surface Antigen adw Subtype (rHBsAg-adw) was produced in Yeast cells.
<b>Species</b>	HBV
<b>Source</b>	Yeast
<b>Description</b>	<p>Hepatitis B virus (HBV) is a human pathogen, causing serious liver disease. At the center of the hepatitis B virus is DNA, which contains the genes the virus uses to replicate itself. Surrounding the DNA is a protein called HBcAg (hepatitis B core antigen), which cannot be detected with blood tests. Surrounding this is HBsAg, which is actually part of the protective "envelope." This envelope surrounds the virus and protects it from attack by the body's immune system. HBsAg stands for hepatitis B surface antigen and is the surface antigen of the Hepatitis-B-Virus (HBV) S-gene. The capsid of a virus has different surface proteins from the rest of the virus. The antigen is a protein that binds specifically on one of these surface proteins. It is commonly referred to as the Australian Antigen.</p>
<b>Form</b>	Lyophilized from 0.22 µm filtered solution in 6.2 mM Phosphate, 200 mM NaCl bufer, pH 7.2. Normally Mannitol are added as protectants before lyophilization.
<b>Bio-activity</b>	The activity of rHBsAg-adw protein was identified in a functional ELISA assay with anti-HBsAg-adw antibodies (capture and conjugate).
<b>Molecular Mass</b>	rHBsAg-adw full length monomeric protein contains 227 amino acids and the has a

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calculated MW of 24 kDa. Small amounts of dimer and trimer forms also exist DTT-reduced protein migrates as 24-27 kDa in SDS-PAGE.

**Endotoxin**

Less than 1.0 EU per µg of the rHBsAg-adw by the LAL method.

**Purity**

>97% as determined by SDS-PAGE.

**Storage**

Avoid repeated freeze-thaw cycles.No activity loss was observed after storage at:4-8°C for 1 year in lyophilized state4-8°C for 1 month under sterile conditions after reconstitution-20°C to -70°C for 3 months under sterile conditions after reconstitution

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