

Recombinant HBV HBsAg protein

Cat. No. HBsAg-254H **Lot. No.** (See product label)

SPECIFICATION

Product Overview	Recombinant HBV HBsAg(Met 1 - Ile 227) was expressed in Yeast.
Species	HBV
Source	Yeast
ProteinLength	Met 1 - Ile 227
Description	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.
Predicted N Terminal	Met
Form	Lyophilized from 0.22 µm filtered solution in 6.2 mM Phosphate, 200 mM NaCl bufer, pH 7.2. Normally Mannitol or Trehalose are added as protectants before lyophilization.

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Molecular Mass	Has a calculated MW of 24 kDa. The reducing (R) protein migrates as 24 kDa in SDS-PAGE.
AA Sequence	MENITSGFLGPLLVLQAGFFLLTRILTIPQSLDSWWTSNLFLGGSPVCLGQNSQSPTS NHSPTSCPPICPGYRWMCLRRFIIFLIFLLCLIFLLVL LDYQGMLPVCPLIPGSTTTSTGPCKTCTTPAQGNSMFPSCCCTKPTDGNCTCIPIPS SWAFAYLWEWASVRFSWLSLLVPFVQWFVGLSPT VWLSA IWMMWYWGPSLYSIVSPFIPLLPFIFFCLWVYI
Endotoxin	Less than 0.05 EU per µg 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: In lyophilized state for 1 year (4 centigrade); After reconstitution under sterile conditions for 3 months (-70 centigrade).