

AR31201PU-N**Human Hepatitis B Surface Antigen / HBsAg (ad) - Purified**

Alternate names:	HBV surface antigen, Hepatitis B Virus
Quantity:	1 mg
Concentration:	Total Protein: 2.41 mg/ml (OD280nm-OD320nm). HBsAg: 2.41 mg/ml (BioRad - PEI Standard).
Background:	Hepatitis B Virus (HBV) infection induces a disease state which manifests itself in a variety of ways, characterized by the extent of liver damage, inflammation and viral persistence. HBV infection is also associated with a 100 fold increased risk of hepatocellular carcinoma and currently infects over 250 million people worldwide. HBV has a partially double stranded 3.2 kilobase DNA genome which contains four open reading frames. One of these encodes a 154 amino acid protein called the HBx protein. HBx has been shown to be a transcriptional transactivator of both viral and cellular promoters. Lacking a DNA binding domain and nuclear localization signal, HBx is believed to exert transcriptional activity through protein protein interaction.
Species:	Human
Source:	Blood
Format:	State: Liquid purified fraction Purity: >99% "Ad" subtype purity (ELISA) Buffer System: 50 mM Phosphate, pH 7.4 ± 0.2 containing 150 mM Sodium Chloride Preservatives: 0.09% Sodium Azide
Applications:	ELISA. Other applications not tested. Optimal dilutions are dependent on conditions and should be determined by the user.
Description:	Hepatitis B Surface Antigen (HBsAg), ad subtype. Inactivation: Heat Inactivated at 60°C for 15 hours.
Storage:	Store the antigen at 2-8°C. Shelf life: six months from despatch.
Caution:	All human source materials have tested negative for HIV1, HIV2 and HCV antibodies. No test guarantees a product to be non-infectious. Therefore, all material derived from human fluids or tissues should be considered as potentially infectious.