RayBiotech, Inc.
3607 Parkway Lane suite 200
Norcross,GA 30092
Tel: 770-729-2992, 1-888-494-8555
Fax: 770-206-2393
Website: www.raybiotech.com
Email: info@raybiotech.com

Certificate of Analysis and Data Sheet
Recombinant Hepatitis B Surface Antigen preS2

Catalog No.	**Source**
228-10618	E. Coli

Introduction
Hepatitis B virus (HBV) is a human pathogen, causing serious liver disease. The HBV surface protein antigens (HBsAg) are comprised of three carboxyl co terminal HBs proteins termed large (LHBs), middle (MHBs) and small (SHBs, also called major) protein. LHBs and MHBs also share the highly hydrophobic, repetitive, membrane spanning S domain. In addition, MHBs has a 55 amino acid region called preS2.

Description
The E.coli derived Recombinant Hepatitis B Surface Antigen preS2 is a single non-glycosylated polypeptide chain containing 55 amino acids & having a molecular weight of 5.7 kDa.

Purification Method
HBsAg protein was purified by proprietary chromatographic technique.

Purity
HBsAg protein is >95% pure as determined by 10% PAGE (coomassie staining).

Formulation
HBsAg protein was lyophilized from 0.2µm filtered (1mg/ml) solution in 20mM PB, pH 7.4 and 50mM NaCl.

Applications
1. Immunochromatography (capture and conjugate).
2. Preparing monoclonal or polyclonal antibodies for HBsAg-preS2.
3. ELISA.

Solubility
We recommend that this vial be briefly centrifuged prior to opening to bring the contents to the bottom. Reconstitute in sterile distilled water or aqueous buffer containing 0.1% BSA to a concentration of 0.1-1.0 mg/mL. Stock solutions should be apportioned into working aliquots and stored at <-20°C. Further dilutions should be made in appropriate buffered solutions.

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Storage

This lyophilized preparation is stable at 2-8°C, but should be kept at -20°C for long term storage, preferably desiccated. Upon reconstitution, the preparation is stable for up to one week at 2-8°C. For maximal stability, apportion the reconstituted preparation into working aliquots and store at -20°C to -70°C. **Avoid repeated freeze/thaw cycles.**

Acid Sequence

MQWNSTTFHQALLDPKVRGLYFPAGGSSSGTVNPVPTTASP
ISSIFSRTGDPAPN