



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 Virus HBe

Catalog No.
228-10619

Source
Escherichia Coli

Introduction:

Hepatitis B is one of a few known non-retroviral viruses which employ reverse transcription as a part of its replication process. (HIV, a completely unrelated virus, also uses reverse transcription, but it is a retrovirus.) HBV invades the cell by binding to surface receptor and become internalized. The viral core particles then migrate to the hepatocyte nucleus and the partially double-stranded, relaxed circular genomes (RC-DNA) are repaired to form a covalently closed circular DNA (cccDNA), which is the template for viral genomic and sub-genomic RNAs by cellular RNA polymerase II. Of these, the pregenomic RNA (pgRNA) is selectively packaged into progeny capsids and is then reverse-transcribed into new RC-DNA. The core can either bud into the endoplasmic reticulum to be enveloped or exported from the cell or recycled back into the genome for conversion to cccDNA.

Description:

The E.Coli derived recombinant protein contains the HBV HBe adw immunodominant region is fused to GST tag and the Mw is 43,897.6 Dalton.

Purification Method

Purified by proprietary chromatographic technique.

Purity

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

Formulation

25mM Tris-HCl pH 8.0, 1.5 M urea and 50% glycerol.

Stability

Five years frozen. One month in solution at room temperature.

Storage

HBV HBe protein is shipped at ambient temperature.
Upon arrival, Store at -20°C.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**



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

Specificity

Immunoreactive with sera HBV-infected individuals.

Applications

HBV HBe antigen is suitable for ELISA and Western blots, excellent antigen for detection of HBV with minimal specificity problems.

**The products are furnished for LABORATORY RESEARCH USE ONLY.
Not for diagnostic or therapeutic use.**