



Recombinant HBV Surface Antigen (subtype adr) (DAG1470)

This product is for research use only and is not intended for diagnostic use.

PRODUCT INFORMATION

Product Overview	Recombinant HBsAg adr produced in CHO cells, the molecular weight is approximately 23-27kDa.
Species	HBV
Purity	Greater than 95.0% as determined by(a) Analysis by RP-HPLC.(b) Analysis by SDS-PAGE.
Conjugate	Unconjugated
Format	Sterile Filtered clear solution.
Size	1 mg
Buffer	20mM PB and 154mM NaCl
Preservative	None
Storage	2-8°C short term, -20°C long term

BACKGROUND

Introduction

Hepatitis B Virus (HBV) infection induces a disease state characterised by liver damage, inflammation and viral persistence. Infection also increases the risk of hepatocellular carcinoma. HBV belongs to the Hepadnaviridae family of viruses. Its genome consists of partially double stranded circular DNA. The DNA is enclosed in a nucleocapsid, or core antigen (HBcAg), which is surrounded by a spherical envelope (surface antigen or HBsAg). The core antigen shares its sequences with the e antigen (HBeAg) but no cross reactivity between the two proteins has been observed. The HBV genome also encodes a DNA polymerase that also acts as a reverse transcriptase.