HEPACARD

One Step Rapid Visual Test For the Qualitative Detection of HBsAg in Human Serum/Plasma

INTENDED USE

HEPACARD is a visual, rapid, sensitive and accurate one step immunoassay for the qualitative detection of Hepatitis B Surface Antigen (HBsAg) in Human Serum or Plasma. The assay is intended to be used as an aid in the recognition and diagnosis of acute infections and chronic infectious carriers of the Hepatitis B Virus (HBV).

INTRODUCTION

The antigenic determinant of the HBsAg protein moiety is antigenically heterogenous and it determines specific HBV serotypes and provides a basis for immunodetection. The principal antigenic determinant is "a" which is common to all HBV serotypes. In addition, two pairs of subspecific determinants have been identified, d/y & w/r, which are apparently mutually exclusive. Four antigenic combinations are therefore possible: adw, adr, ayw and ayr.

RINCIPLE

TEPACARD is a one step immunoassay based on the antigen capture, or "sandwich" principle. The method uses monoclonal antibodies conjugated to colloidal gold and polyclonal antibodies immobilized on a nitrocellulose strip in a thin line. The test sample is introduced to and flows laterally through an absorbent pad where it mixes with the signal reagent. If the sample contains HBsAg, the colloidal gold-antibody conjugate binds to the antigen, forming an antigen-antibody-colloidal gold complex. The complex then migrates through the nitrocellulose strip by capillary action. When the complex meets the line of immobilized antibody (Test line) "T", the complex is trapped forming an antibodyantigen-antibody collidal gold complex. This forms a pink band indicating the sample is reactive for HBsAg. To serve as a procedural control, an additional line of anti-mouse antibody (Control line) "C", has been immobilized at a distance from the test line on the strip. If the test is performed correctly, this will result in the formation of a pink band upon contact with the conjugate.

KIT CONTENTS

a) Hepacard Test Device

b) Sample Dropper

c) Instruction Manual

KIT PRESENTATION

20 Test Pack

100 Test Pack

200 Test Pack

STORAGE AND SHELF LIFE

HEPACARD should be stored at 2-30°C in the coolest and driest area available. Expiry date on the kit indicates the date beyond which the kit should not be used. The HEPACARD should not be trozen and must be protected from exposure to humidity.

WARNING FOR USERS



CAUTION: ALL THE SAMPLES TO BE TESTED SHOULD BE HANDLED AS THOUGH CAPABLE OF TRANSMITTING INFECTION. NO TEST METHOD CAN OFFER COMPLETE ASSURANCE THAT HUMAN BLOOD PRODUCTS WILL NOT TRANSMIT INFECTION.

- The use of disposable gloves and proper biohazardous clothing is STRONGLY RECOMMENDED while running the test.
- In case there is a cut or wound in hand, DO NOT PERFORM THE TEST.
- Do not smoke, drink or eat in areas where specimens or kit reagents are 3. being handled.
- Tests are for in vitro diagnostic use only and should be run by competent person only.

- Do not pipette by mouth.
- All materials used in the assay and samples should be decontaminated in suitable disinfectant solution for 30-60 min, before disposal or by autoclaving at 121°C at 15psi for 60 min. They should be disposed off in accordance with established safety procedures.
- Wash hands thoroughly with soap or any suitable detergent, after the use of the kit. Consult a physician immediately in case of accident or contact with eyes, in the event that contaminated material are ingested or come in contact with skin puncture or wounds.
- Spills should be decontaminated promptly with suitable disinfectant. 8.
- Take out the Cards from the pouch just before performing the test to avoid denaturation of antisera due to atmospheric exposure.
 - Optimal test performance requires strict adherence to the test procedure described in the insert.

PRECAUTIONS

- Do not open the foil pouch to remove the product until it attains room temperature and you are ready to perform the test.
- Do not freeze the product.
- Interpret the result at the end of 20 minutes only.
- Take out the Cards from the pouch just before performing the test to avoid denaturation of antisera due to atmospheric exposure.

Optimal test performance requires strict adherence to the test procedure described in the insert.

SAMPLE / SPECIMEN COLLECTION & STORAGE

- a) HEPACARD should be performed on human serum or plasma only immediately after collection.
- If not tested immediately, specimen should be refrigerated at 2-8°C upto 3 days following collection.
- If testing within 3 days is not possible, specimen should be stored frozen at -20°C.
- Specimen containing visible precipitates or cloudy specimens may give inconsistent test results. Such specimens should be clarified prior to testing by high speed centrifugation i.e. 10,000 rpm for 15 minutes before testing.
- Haemolysed specimen or specimen with microbial contamination should be discarded and fresh aliquot should be collected.

TEST PROCEDURE

- Bring the required number of HEPACARD foil pouches and specimen to room temperature prior to testing.
- Take out HEPACARD device from the foil pouch.
- Label the test card with patient's name or identification number.
- Add 2 drops (70 μ I) of human serum/plasma specimen into the sample well using the dropper provided (use separate dropper/microtip for each specimen).
- Allow reaction to occur during the next 20 minutes.
- Read results at 20 minutes.
- Discard the HEPACARD immediately after reading result at 20 minutes, considering it to be potentially infectious.