



# ASSURE® HEV IgM RAPID TEST

## Instructions For Use

FOR RESEARCH USE ONLY  
NOT FOR USE WITH DIAGNOSTIC PROCEDURES

REVISION DATE: 2015-04  
MDH 0012-ENG-0

**REF** 43162-020 (20 tests kit)

### TRADE NAME AND INTENDED USE

The **MP DIAGNOSTICS (MPD) ASSURE® HEV IgM Rapid Test** is an immunochromatographic test device intended for the rapid detection of IgM antibodies to Hepatitis E virus (HEV) in human serum, plasma or whole blood.

This kit is supplied for research purposes only. It is not intended for use in the diagnosis or prognosis of disease. In particular this test cannot be used to evaluate blood specimens for the purpose of donor screening or as confirmatory diagnostic.

### INTRODUCTION

The **MP Diagnostics ASSURE® HEV IgM Rapid Test** is developed to address such a need. The new test is a reverse-flow immunochromatographic test (7) and uses immobilized mouse anti-human IgM antibodies for capturing the IgM antibodies in the test samples. The presence of the captured IgM antibody specific to HEV is detected by the colloidal gold-labeled recombinant protein (9-10).

### DESCRIPTION OF SYMBOLS USED

The following are graphical symbols used in or found on MP Diagnostics products and packaging. These symbols are the most common ones appearing on medical devices and their packaging.

- Use by  
Synonym for this :  
Expiry Date
- For research use only
- Batch Code  
Synonyms for this are:  
Lot Number  
Batch Number
- Catalogue  
Number
- Temperature  
Limitation
- Attention.  
See Instructions  
for Use
- Manufacturer
- Consult Instructions  
for Use
- Contains sufficient  
for <n> tests
- Do not reuse

### CHEMICAL AND BIOLOGICAL PRINCIPLES OF THE PROCEDURE

**MPD ASSURE® HEV IgM Rapid Test** is an IgM capture solid-phase immunochromatographic assay. All antibodies of IgM class, when present in the test sample, can be captured by anti-human IgM antibodies immobilized on the membrane. The presence of HEV specific IgM antibodies can be differentially detected by a colloidal gold-labeled HEV antigen immobilized within the device, and can be visualized as pink/purple lines after assay. In addition, immobilized rabbit IgG antibodies which can be recognized by colloidal gold-labeled anti-rabbit IgG antibodies were used as a control for proper function of the reagents.

### KIT COMPONENTS

<b>DEVICE</b>	MPD ASSURE® HEV IgM Rapid Test devices in individually sealed pouches with desiccant. Store at 2°C - 28°C	20 devices
<b>BUFFER</b>	CHASE BUFFER containing 0.02% thimerosal and 0.01% Triton-X 100. Store at 2°C - 28°C	1 bottle (5 ml)
<b>APPLICATOR</b>	SAMPLE APPLICATOR Twenty plastic samples applicators, each with marks at 25µl and 35µl	20 pieces
	Instructions For Use	1 copy

### HEALTH AND SAFETY INFORMATION

- In case of an accident or contact with eyes, rinse immediately with plenty of water and seek medical advice.
- Consult a physician immediately in the event that contaminated materials are ingested or come in contact with open lacerations, or other breaks in the skin.
- Wipe any spills of sera, plasma or blood promptly with 1% sodium hypochlorite solution.
- Autoclave all used and contaminated materials at 121°C, 15 p.s.i. for 30 minutes before disposal. Alternatively, decontaminate materials in 5% sodium hypochlorite solution for 30-60 minutes before disposal in biohazard waste-bags.
- The Chase Buffer contains 0.02% thimerosal and 0.01% Triton-X. The ingredient presence in the kit components are in its pure form a dangerous substance. However, its low concentration as in its preparation in the kit components are not considered a dangerous preparation as according to European Economic Community (EEC).

### ANALYTICAL PRECAUTIONS :

- For research use only.
- Please refer to the product labelling for information on potentially hazardous components
- Gloves must be worn.
- Optimal assay performance requires **STRICT ADHERENCE** to the assay procedure described in this Instructions For Use. Deviations from the procedure may lead to aberrant results.
- Do not interchange reagents between kit lots.
- Do not use kit components beyond the expiry date printed

on the kit box.

- Reagents supplied should not present a hazard to health if used in accordance to the instructions stated.
- For best results allow all reagents and samples to reach room temperature (25°C ± 3°C) before use.

### STORAGE

- Store entire kit at 2°C - 28°C. Test devices should be kept sealed until use.

### MATERIALS REQUIRED BUT NOT PROVIDED

- Lancets
- Alcohol swabs

### SAFETY PRECAUTIONS

- Autoclave all used and contaminated materials at 121°C, 15 p.s.i. for 30 minutes before disposal. Alternatively, decontaminate materials in 5% sodium hypochlorite solution for 30-60 minutes before disposal in biohazard waste-bags.
- Wipe any spills of sera, plasma or blood promptly with 1% sodium hypochlorite solution.

### SPECIMEN COLLECTION

Whole blood can be collected in anti-coagulant containing tubes and used as outlined in the assay procedure immediately or stored at 2°C to 8°C for not more than 48 hours before use.

Serum / plasma samples should be stored at 2°C to 8°C if the test is to be run within 7 days of collection or frozen at -20°C or colder if the test is to be delayed for more than 7 days. Clear, non-hemolyzed samples are preferred. Lipemic, icteric or contaminated (particulate) samples should be filtered (0.45µm) or centrifuged before testing.

Samples can be inactivated but this is not a requirement for optimal test performance.

Inactivate as follows:

- Loosen cap of sample container.
- Heat-inactivate sample at 56°C for 30 minutes in a water bath.
- Allow sample to cool down before retightening cap.
- Sample can be stored frozen until analysis.

Repeated freeze-thawing of the sample is not recommended.

### ASSAY PROCEDURE

**IMPORTANT : Strict adherence to the assay procedure will ensure optimal assay performance. Deviations from the procedure may lead to aberrant results.**

**Note:** Allow the kit to warm to room temperature before running the assay. If precipitates are found in the Chase Buffer reagent, shake the bottle vigorously and allow to warm up further. Omit this step if the kit is stored at 18 to 28°C.

- Label the test device with the sample name.
- Proceed with the appropriate assay procedure as diagrammed below.
- When drawing whole blood, wipe finger tip with alcohol

swab, let dry, and prick with lancet. Face the pricked finger tip upwards. Draw the blood with the provided sample applicator to the 35 µl mark (apply slight pressure to the bulb section before drawing blood). Dispense the sample completely into the square well.

Diagram 1: Assay for serum or plasma

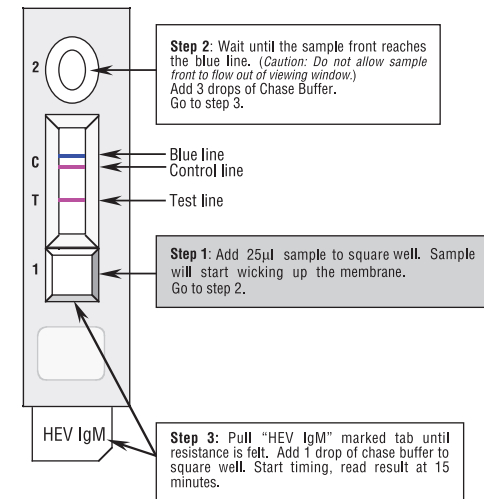


Diagram 2: Assay for whole blood

