Hepatitis A + Hepatitis E IgG / IgM (HAV + HEV IgG / IgM) Rapid Test Kit

Catalog No.: abx093001

Storage: Store all reagents at 2 – 30°C. Keep dry.

Application: For qualitative detection of Human IgG and IgM antibodies against Hepatitis A Virus and Hepatitis E Virus in Human serum, plasma or whole blood.

Introduction

Abbexa's Hepatitis A + Hepatitis E IgG / IgM (HAV + HEV IgG / IgM) Rapid Test Kit is based on the gold immuno-chromatography assay (GICA) principle. The IgG and IgM test lines are coated with anti-human IgG and anti-human IgM respectively. Any HAV or HEV antibodies present in the samples binds with the corresponding colloidal gold particle-labelled antigen on the sample pad. When the concentration of HAV + HEV IgG / IgM in the sample is greater than the detection limit, there is a color change in the respective detection line and the result is positive. When the concentration of HAV + HEV IgG / IgM in the sample solution is less than the detection limit, there is no color change in the respective detection line and the result is negative.

Kit Components

- Test cassettes with pipettes
- Buffer Solution

Material Required But Not Provided

- Timer
- Lancets

A. Sample preparation

- **Serum and Plasma:** Serum and plasma samples should be collected using conventional methods and stored between 2 – 8°C for short-term storage (up to 3 days) or -20°C for long-term storage. Avoid repeated freeze/thaw cycles.
- **Whole blood:** Whole blood should be collected via venipuncture or fingerstick. Whole blood samples should be tested immediately after collection.

Note: Avoid samples containing bacterial pollution, visible particles; and avoid cloudy, hemolytic, lipemic, or viscous samples.

B. Assay Procedure

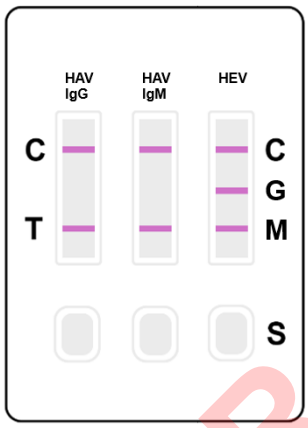
1. Take a test cassette and lay it flat on a clean table.
2. Add 1 drop (approximately 25 µl) of sample to the sample well (S) on the test cassette.
3. Add 1 drop (approximately 40 µl) of Buffer Solution. Avoid foaming.
4. Leave at room temperature and interpret results within 15 minutes. Results should not be interpreted after 20 minutes.

For Reference Only

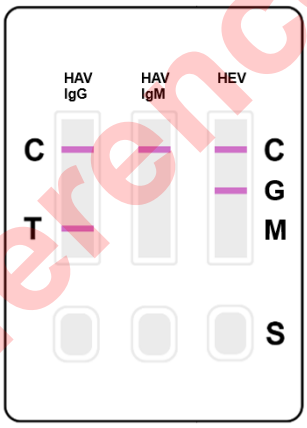
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C. Results analysis

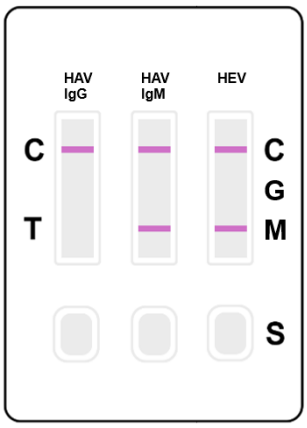
- **HAV IgG/IgM Positive result:** A colored line is observed in both the control (C) section and the test (T) section in the corresponding HAV IgG or HAV IgM lanes.
- **HEV IgG/IgM Negative result:** A colored line is observed in both the control (C) section and not the test (T) section in the corresponding HAV IgG or HAV IgM lanes.
- **HEV IgG Positive result:** A colored line is observed in both the control (C) section and the IgG (G) section in the HEV lane.
- **HEV IgM Positive result:** A colored line is observed in both the control (C) section and the IgM (M) section in the HEV lane.
- **HEV IgG Negative result:** A colored line is observed in both the control (C) section and not the IgG (G) section in the HEV lane.
- **HEV IgM Negative result:** A colored line is observed in both the control (C) section and not the IgM (M) section in the HEV lane.
- **Invalid result:** No colored line is observed in the control (C) section.



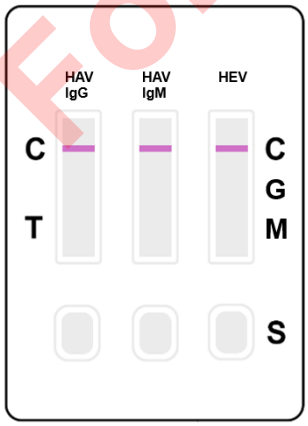
IgG/IgM Positive



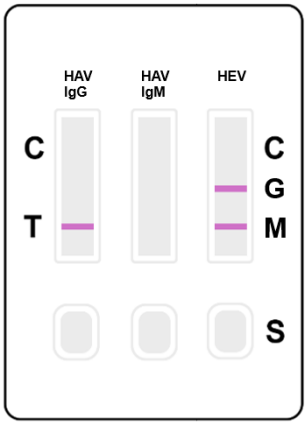
IgG Positive



IgM Positive



Negative



Invalid

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Notes

1. The test cassettes should be brought to room temperature before use.
2. After opening the aluminum foil, use the test cassette as soon as possible and within 1 hour.
3. Do not mix or re-use the pipettes to avoid cross-contamination.
4. Avoid touching the cassette membrane through the sample well or test result window.
5. This kit is for qualitative detection of HAV + HEV IgG / IgM in serum, plasma or whole blood samples. For other sample types, a preliminary experiment is recommended to determine compatibility with this kit. Positive samples can be tested with another method for quantitative results.
6. This kit is for research use only and the results are for reference only.
7. It is recommended to use this kit in conjunction with another detection method.
8. All waste should be disposed appropriately. Please note that you may need to follow special waste disposal procedures for infectious samples. Please check local disposal regulations.

Specificity:

- HAV IgG: 99.1%
- HAV IgM: 99.1%
- HEV IgG: 98.7%
- HEV IgM: 98.6%

Sensitivity:

- HAV IgG: 97.9%
- HAV IgM: 95.7%
- HEV IgG: 90.0%
- HEV IgM: 93.3%

Technical Support

For troubleshooting and technical assistance, please contact us at support@abbexa.com.

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