HCV TRI-DOT

Rapid Visual Test for the Detection of Antibodies to Hepatitis C in Human Serum or Plasma

- 4th Generation
- High Sensitivity & Specificity
- In Built Quality Control
- Result in less than 3 min.

Unique Combination of HCV Antigens
Core, NS3, NS4 & NS5

First company in India to be granted Drug Manufacturing Licence in HCV Rapid Test

Licence approved by Drug Controller General of India, Ministry of Health & Family Welfare, Govt. of India
INTRODUCTION

Hepatitis C Virus was identified in 1989 as the main aetiological agent of non-A, non-B hepatitis (NANBH) accounting for greater than 90% of post-transfusion hepatitis cases. HCV is a spherical virus of about 30-60 nm in diameter with single positive stranded RNA and is related to the family flaviviridae. It is considered to be the major cause of acute chronic hepatitis, liver cirrhosis and hepatocellular carcinoma throughout the world. It is therefore necessary to correctly diagnose Hepatitis C infection.

The test for antibodies to HCV was proved to be highly valuable in the diagnosis and study of the infection, especially in the early diagnosis of HCV after transfusion. The diagnosis of hepatitis C can be easily made by finding elevated serum ALT levels and presence of anti-HCV in serum/plasma (Fig. 1).

HCV TRI-DOT

The HCV TRI-DOT is a rapid, visual, sensitive, specific and qualitative in-vitro diagnostic test for the detection of antibodies to Hepatitis C Virus in human serum or plasma.

The HCV TRI-DOT has been developed and designed using a unique combination of HCV antigens for the putative core (structural), protease/helicase NS3 (non-structural), NS4 (non-structural) and replicase NS5 (non-structural) regions of the virus in the form of two test dots T1 & T2 to detect all the genotypes of HCV. The antigens used are chemically treated and unfolded in a special way to make the different epitopes of Core & NS3 antigens more reactive and specific to their respective antibodies thereby minimizing the chances of cross reactivity and enhancing the specificity. Also, the superior sensitivity of the test allows for the significantly earlier detection of antibodies during sero-conversion following HCV infection, thereby reducing the incidence of post transfusion hepatitis and providing a safer blood supply.

TEST INTERPRETATION

Non-Reactive

Reactive for HCV antibodies

Reactive for HCV antibodies

Reactive for HCV antibodies

Invalid

USE OF HCV TRI-DOT

• In Diagnostic Centers.
• In emergency and urgent testing situations.
• In small nursing homes and clinics.
• For Gastroenterologists who want to diagnose their patients.
**SALIENT FEATURES OF HCV TRI-DOT**

- Based on “Flow Through Technology”, which is similar to Elisa Technology because of involvement of washing steps at various levels to enhance the specificity
- Results in less than 3 minutes
- In built quality control dot which validates the test
- Excellent Sensitivity and Specificity
- Highly purified HCV antigens for Core, NS3, NS4, NS5 immobilized on the device
- No Instrument required

**EVALUATION OF HCV TRI-DOT**

**WORLD HEALTH ORGANIZATION (WHO), Geneva evaluation**

Evaluated by WHO Geneva with **100% Sensitivity & 98.9% Specificity**. The samples included in the panels for evaluation were from Asian, European, Latin American and African origin.

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**PATH, USA evaluation**

Evaluated by PATH, USA (Program for Appropriate Technology in Health) with **100% Sensitivity & 99.2% Specificity**. The samples included in the panels for evaluation were from USA, India and Indonesia.

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Evaluated by CMC Vellore with accuracy indices of **100% Sensitivity & 100% Specificity**.

Performance of the test has been also determined by Drug Controller General of India at their reference centre National Institute of Biologicals, New Delhi.

*This information is provided for the Scientific Community Enquiring for an independent evaluation other than company's in house evaluation. It is not for commercial or promotional purpose*

**KIT PRESENTATION**

- 10 Test Pack
- 50 Test Pack
- 100 Test Pack

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