



# Hepatitis

Providing a wide range of tests to identify, treat and control viral infections



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## Viral hepatitis is an infection that causes liver inflammation due to different viral agents belonging to diverse groups of DNA and RNA viruses.

Currently, there are five important viruses connected to viral hepatitis, causing a wide range of symptoms from mild symptoms such as fever and fatigue to acute hepatitis. Characteristic symptoms related to this viral infection are jaundice, gastrointestinal issues all the way to severe and life threatening complications such as hepatocellular carcinoma and liver cirrhosis. It is not possible to distinguish between different viral agents only by the clinical symptoms, therefore proper diagnostics are an important tool to identify, treat and control those diverse viral infections

Erba provides a wide range of tests related to these five viral agents:

### Hepatitis A virus (HAV)

Hepatitis A virus (HAV) is best known and most prevalent due to its fecal-oral route of transmission, either person to person or ingestion of contaminated water or food. HAV usually causes common symptoms which may include fever, malaise, anorexia, nausea, abdominal discomfort, dark urine and jaundice which are not virus-specific. In order to run diagnose HAV, we offer following ELISA assays:

Cat No	Product name	Parameters of the test
IME00139*	HAV Ab (competitive)	Competitive ELISA for qualitative determination of hepatitis A antibodies
IME00140*	HAV IgM	"Capture" ELISA for qualitative determination of hepatitis A IgM antibodies

### Hepatitis E virus (HEV)

Hepatitis E virus (HEV) is a zoonotic virus, similarly transmitted via the fecal-oral route, which causes asymptomatic or mild self-limiting infection in immunocompetent individuals. HEV can however be extremely dangerous for pregnant women or immunocompromised patients. Due to these reasons, official guidance for blood bank testing in many countries already include HEV as an obligatory blood bank panel tests. Erba offers following ELISA solutions for Hepatitis E virus diagnostics:

Cat No	Product name	Parameters of the test
IME00160*	HEV Ab	Third generation ELISA for qualitative determination of all hepatitis E subtypes antibodies
IME00161*	HEV IgM	ELISA for qualitative determination of all hepatitis E subtypes IgM antibodies
IME00162*	HEV IgG	Third generation ELISA for qualitative determination of all hepatitis E subtypes IgG antibodies

\* Tests available in some countries only, contact your local Erba representative for more information

## Hepatitis B (HBV) C (HCV) and D viruses

Hepatitis B (HBV) and C (HCV) viruses are transmitted parenterally by contact with infected blood or other bodily fluids. Both viruses can cause symptoms similar to ones caused by Hepatitis A and Hepatitis E viruses, however, in this case, many patients are diagnosed at a later stage of infection. After disease has already progressed into chronicity, it poses high risk of treatment failure and progression into liver cirrhosis and hepatocellular carcinoma. Due to those reasons, both HBV and HCV parameters are obligatory tests in blood bank panels. Additionally, Hepatitis D virus can exacerbate HBV infection and such super-infection leads to chronicity in 80% of cases with an enhanced risk of progression into cirrhosis and hepatocellular carcinoma. Erba has a broad spectrum of solutions for HBV, HCV and HDV diagnosis:

Cat No	Product name	Parameters of the test
IME00141*	HBs Ag one Version ULTRA 96	Fourth generation ELISA for qualitative determination of hepatitis B surface antigen
IME00142*	HBs Ag one Version ULTRA 192	
IME00143*	HBs Ag one Version ULTRA 480	
IME00144*	HBs Ag one Version ULTRA 960	
IME00145*	HBs Ag Confirmation 20	Confirmatory test for HBs Ag presence, used in combination with HBs Ag one Version ULTRA
IME00146*	HBs Ag Confirmation 40	
IME00147*	HBs Ab	ELISA for quantitative determination of antibodies against hepatitis B surface antigen
IME00148*	HBe Ag&Ab	ELISA for qualitative determination of Hepatitis B virus “e” antigen and antibodies
IME00149*	HBc Ab	Competitive ELISA for qualitative determination of antibodies against hepatitis B core antigen
IME00150*	HBc IgM	“Capture” ELISA for quantitative determination of IgM antibodies against hepatitis B core antigen
IME00151*	HCV Ab 96	Fourth generation ELISA for qualitative determination of hepatitis C antibodies
IME00152*	HCV Ab 192	
IME00153*	HCV Ab 480	
IME00154*	HCV Ab 960	
IME00155*	HCV Ab Confirmation 12	Confirmatory hepatitis C antibody ELISA test, multi-parameter test for detection of antigen specific antibodies in individual wells
IME00156*	HCV IgM	“Capture” ELISA for quantitative determination of IgM antibodies against hepatitis C
IME00157*	HDV Ab	Competitive ELISA for qualitative determination of antibodies against hepatitis Delta virus
IME00158*	HDV Ag	Third generation ELISA for qualitative determination of hepatitis Delta antigen
IME00159*	HDV IgM	“Capture” ELISA for quantitative determination of IgM antibodies against hepatitis Delta virus

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We are an emerging player in in-vitro diagnostics, with a global footprint.  
Our mission is to make automation affordable for labs everywhere.

Providing hospitals and labs with a full range of diagnostic instruments,  
reagents and support services in more than 100 countries, our focus is on  
improving health outcomes in developing nations.

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