

Complement your diagnosis with

HEPATITIS E

Daily serological testing

HEPATITIS E VIRCLIA® IgG MONOTEST HEPATITIS E VIRCLIA® IgM MONOTEST

Chemiluminescent immunoassay (CLIA) to determine IgG (indirect) and IgM (capture) antibodies against hepatitis E virus in human serum or plasma samples.

- Monotest format with ready-to-use reagents.
- Simple and automated protocol that provides results within 1 hour.
- Recombinant antigens.
- Highly specific IgM immunocapture method.
- Allows the quantification of IgG antibodies concentration using international units per milliliter (IU/ml) in accordance with the WHO standard.
- Excellent clinical sensitivity and specificity supported in the scientific literature.
- Compatible tests with VirClia® panel, the broadest solution for infectious diseases in CLIA monotest format (>90 parameters).



VirClia® MONOTEST - 24 tests

Fundamentals

Hepatitis E virus (HEV) is one of the main causes of acute hepatitis in the world and its incidence has increased dramatically in recent years. Its greatest clinical impact is in immunosuppressed patients, pregnant women, and patients with underlying liver disease.

According to the WHO, it is one of the leading causes of death from acute viral hepatitis worldwide.

Diagnostic tools

Detection of viral RNA is the gold standard although, due to the short duration of viremia, an undetectable result in the symptomatic phase is not conclusive.

The initial screening diagnosis is usually made indirectly, due to the fastness and availability of serological techniques. The presence of Anti-HEV IgM antibodies is an indicator of acute infection with an important implication in the clinical diagnosis, but when its reactivity is isolated, a new determination is recommended to show seroconversion to Anti-HEV-IgG.

Anti-HEV-IgG antibodies can last for more than 10 years and are indicators of past infection. However, a greater than fourfold increase in baseline antibody level can also be used as a diagnostic criterion for recent HEV infection. Avidity tests that determine the low affinity of these antibodies are often used as an auxiliary method for the diagnosis of recent infection.

Main recommendations for screening

- In all patients with acute hepatitis or acute liver failure.
- In patients with known or recently diagnosed chronic liver disease with decompensation and / or data suggestive of acute liver inflammation.
- In the evaluation of all patients with chronic hepatitis as well as in patients with liver disease of uncertain origin.
- In all organ donors.

The True Monotest

- On-demand testing: **One monotest= one reportable test.** Nothing else is required.
- **Individual Quality Control per monotest**, no need for extra controls or calibrations.
- **Random Access automated protocol** with results in 1 h.
- **Same day results**, no batching, no sample cumulation.



Performance

The clinical sensitivity and specificity were determined against a commercial ELISA kit.

	No. of samples	Sensitivity	Specificity
HEV VIRCLIA IgM	256	95%	99%
HEV VIRCLIA IgG	254	92%	99%

- Borrego Jiménez, J. *et al.* 2018. Valoración de un nuevo ensayo quimioluminiscente en comparación con ELISA en la detección de IgG contra el virus de la hepatitis E. Revista de la Sociedad Andaluza de Microbiología y Parasitología Clínica. 1 (2). XXXI Reunión SAMPAC "INFECCIONES EMERGENTES".
- Dichtl, K. *et al.* 2021. Evaluation of a Novel CLIA Monotest Assay for the Detection of Anti-Hepatitis E Virus-IgG and IgM: A Retrospective Comparison with a Line Blot and an ELISA. Pathogens 2021, 10, 689.
- Lier, C. *et al.* 2019. Evaluation of the performance of semi-automated serological tests VirClia® for the detection of IgM and IgG anti-Hepatitis E Virus (HEV). XXII Journées Francophones de Virologie, Lyon, France.
- Mateo, M. *et al.* 2018. Assessment Of The Hepatitis E VirClia® System For The Detection Of IgM And IgG Antibodies Against HEV. International Meeting on Emerging Diseases and Surveillance. Vienna, Austria.
- Sampedro, A. *et al.* 2018. Comparison of a chemiluminescent test and an ELISA for the detection of antibodies against the virus of Hepatitis E. SEIMC, Bilbao, Spain.



INNOVATIVE TECHNOLOGY



MONOTEST FORMAT



AUTOMATED RESULTS WITH IN 1 HOUR



COMPLETE SOLUTION



BETTER PATIENT CARE

Ordering information and related products

Reference	Description	Content
VCM066	HEPATITIS E VIRCLIA® IgG MONOTEST (quantitative)	24 tests
VCM067	HEPATITIS E VIRCLIA® IgM MONOTEST (captura)	24 tests
VCM093	HEPATITIS E VIRCLIA® IgG AVIDITY MONOTEST*	12 tests

* Available soon

Vircell S.L.

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