



COSARA
DIAGNOSTICS
PVT. LTD

SARAQ™

Hepatitis B Viral Load Real-Time PCR Test (HBQ)

HBV Viral Load Real-Time PCR Test Information

The SARAQ™ Hepatitis B (HBV) Viral Load Kit is a real-time PCR test for quantification of HBV genotypes A-H from EDTA plasma or serum samples. The kit's indication for use is as an aid in assessing viral response to antiviral treatment. The HBV Viral Load Kit is intended for use in conjunction with clinical presentation and other laboratory tests.

Results within two hours

The HBV Viral Load tests can be performed in less than two hours. The test requires a clean, contamination free environment with a hood, centrifuge, pipettes and a RT-PCR machine. The test is compatible with most RT-PCR devices with green and orange channels and it can be customized to work with myriad dyes and PCR technologies.



HBV Viral Load Real-Time PCR Kit

- Compatible with multiple RT-PCR Platforms
- Simple and streamlined workflow
- Includes internal control to verify sample quality
- Includes 5 Positive Control Standards
- Produces results that are easy to interpret

IVD



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Sensitive, Fast and Affordable Molecular Diagnostics
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About CoDx™ Technology

The HBV Viral Load Kit is developed using a revolutionary molecular diagnostics technology called CoPrimers™, a technology invented and patented by Co-Diagnostics, Inc (Utah, USA).

CoDx technology is mathematically engineered to enhance the speed, accuracy and cost-effectiveness of RT-PCR. The technology is based on cooperative theory, a mathematical model developed by Brent Satterfield, Ph.D. This model applies advanced algorithms and bioinformatics to optimize design parameters with analyte targets. In comparison with other technologies, the CoPrimers reduce the formation of primer-dimers, increase specificity and increase ability to multiplex. The Journal of Molecular Diagnostics (March 2014) introduced CoPrimers as a “new class of primer technology that greatly reduces primer-dimer propagation, showing a 2.5 million-fold improvement in reduction of nonspecific amplification.”



SARAQ™

Hepatitis B Viral Load Kit

Real-Time PCR Test Specifications

Application	Quantitative Real-Time PCR				
Sample type	EDTA plasma or serum				
Type of detection	Quantification of HBV				
Specificity	HBV genotypes A-H				
Limit of Detection	<table><tr><th>Gene Marker</th><th>Limit of Detection</th></tr><tr><td>HBV</td><td>0.228 IU/μL</td></tr></table>	Gene Marker	Limit of Detection	HBV	0.228 IU/μL
Gene Marker	Limit of Detection				
HBV	0.228 IU/μL				
Thermal cycler compatibility	Most RT-PCR systems with the following channel compatibilities: Green (FAM™) and Orange (CAL Fluor® Red 610)				

HBV Viral Load Kit Includes

MM	Master Mix
PC	Positive Control Standards 1 to 5
NC	Negative Control

Ordering Information

Product Name	Number of Reaction
SARAQ™ HBV Viral Load Test Kit (HBQ)	25 RxS
	50 RxS
	100 RxS

* RT PCR machine available on request

The performance of the HBQ RT-PCR Test has been evaluated for precision, accuracy, sensitivity and specificity for relevant HBV genotypes A-H.

Intended Use: For quantification of HBV



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