

# Determine™ HBsAg

Outstanding performance versus industry standards

## Excellent sensitivity<sup>3</sup>

Population	Determine™ HBsAg	Test A
HBsAg Positive Serum	94.64%	90.08%
	Whole blood	N/A
<b>Total</b>	<b>95.16%</b>	<b>90.08%</b>

## Excellent specificity<sup>4</sup>

Population	Determine™ HBsAg	Test A
Seronegatives Serum	99.85%	99.85%
	Plasma	100%
	Whole Blood	100%
Pregnant females	100%	100%
West Africans	100%	100%
Disease states other than HBV and potentially interfering substances	100%	100%
<b>Total</b>	<b>99.95%</b>	<b>99.95%</b>

1. Lavanchy D. Hepatitis B virus epidemiology, disease burden, treatment, and current and emerging prevention and control measures. *J Viral Hepatitis* 2004;11:97.  
 2. World Health Organisation. Department of Communicable Diseases Surveillance and Response. WHO/CDS/LYO/2002.2:Hepatitis B. <http://www.who.int/emc>.  
 3. A total of 434 HBsAg seropositive serum and whole blood specimens from Asia and North America were tested by Determine HBsAg and a commercially available test.  
 4. A total of 1,908 serum, plasma, and whole blood specimens from Asia, West Africa, and North America were tested by Determine HBsAg and a commercially available test.

Order Details	Sample Type	Kit Size	Product Code
Determine HBsAg	Serum Plasma	100 Tests	7D2543
	*Whole Blood		

\*For Whole Blood application please order Chase Buffer.

Accessories	Kit Size	Product Code
EDTA Capillary Tubes	100 Tests	7D2222
Chase Buffer	100 Tests	7D2243



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# determine Hepatitis B



Containing a global health problem

detect... diagnose... determine...



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# Hepatitis B

remains endemic in large portions of the world

Rapid diagnostic tests play a pivotal role in infection control

## Significant disease burden

- 2 billion people are infected worldwide<sup>1</sup>
- 350 million people currently have chronic hepatitis B virus (HBV) infection<sup>1</sup>
- Three quarters of the world's population live in endemic areas<sup>2</sup>
- 4 million people each year are newly infected<sup>2</sup>
- 1 million people a year die from hepatitis B or associated liver diseases<sup>1,2</sup>
- HBV is the 10th leading cause of death worldwide<sup>1</sup>

## Chronic carriers present a continued threat

- Infected infants can carry and transmit HBV for many years beyond childhood<sup>2</sup>
- Carrier individuals look healthy and have no symptoms but are highly infectious<sup>2</sup>
- HIV-positive and other immunocompromised individuals are common carriers<sup>2</sup>

## HBV is easily transmissible

- Mother to newborn baby
- Child to child in endemic areas
- By sexual contact
- Through blood transfusions
- Contact with infected blood or other bodily fluids

## Value of simple, reliable diagnostic tests

- Detect active infection, acute and chronic
- Screen blood before transfusion
- Help contain spread of infection



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## Determine™ HBsAg

A rapid *in vitro* qualitative immunoassay for detection of Hepatitis B Surface Antigen

An important early marker of infection...  
helps in diagnosing acute infection, confirming chronic infection, and screening blood supplies

### Rapid

- Clear, dependable results in 15 minutes
- Facilitates prompt, appropriate follow-up of infected patients

### Simple procedure

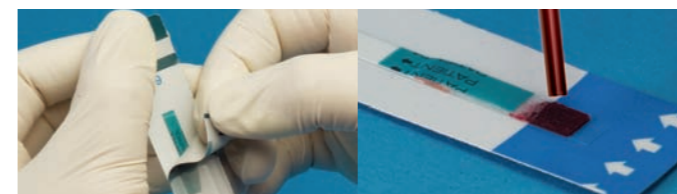
- Step 1, add 50µl of sample to pad. If using whole blood, add chase buffer. Step 2, wait 15 minutes, then read the result. Two red bars = positive. One red bar in the control window = negative. (No red bar in the control window means test is invalid.)
- Requires minimal training and no equipment
- So easy it can be used at the lowest levels of health care service

### Flexible

- Can use whole blood or serum/plasma
- Collection can be by fingerstick or venipuncture

### Easy to transport and store

- No refrigeration required
- Storage conditions 2-30°C
- No power or water source needed to run the test



**determine**  
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