

## PRODUCT SPECIFICATIONS

<b>Name</b>	Anti-HBsAg 2503 SPTN-5
<b>Specificity</b>	Antibody recognizes hepatitis B virus surface antigen HBsAg (ad/ay)
<b>Description</b>	Monoclonal mouse antibody, cultured <i>in vitro</i> under conditions free from animal-derived components
<b>Product code</b>	100351
<b>Product buffer solution</b>	50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN <sub>3</sub> as a preservative
<b>Shelf life and storage</b>	Unspecified, storage at 2-8 °C
<b>Analyte description</b>	Hepatitis B is an infectious illness caused by hepatitis B virus (HBV). The acute illness causes liver inflammation, vomiting, jaundice and rarely, death. Chronic hepatitis B may eventually cause liver cirrhosis and liver cancer – a fatal disease with very poor response to current chemotherapy. The infection is preventable by vaccination. The hepatitis B surface antigen (HBsAg) is most frequently used to screen for the presence of this infection. It is the first detectable viral antigen to appear during infection. However, early in an infection, this antigen may not be present and it may be undetectable later in the infection as it is being cleared by the host.

## PARAMETERS TESTED ON EACH LOT

<b>Product appearance</b>	Liquid, may turn slightly opaque during storage
<b>Product concentration</b>	5.0 mg/ml (+/- 10 %)
<b>Immunoreactivity</b>	80-120 % compared to the reference sample in an FIA test
<b>IEF Profile</b>	7.0 - 7.8
<b>Purity</b>	≥ 95 %

## PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

<b>Subclass</b>	IgG <sub>2a</sub>
<b>Association rate constant</b>	Not Determined (N/D)
<b>Dissociation rate constant</b>	N/D
<b>Affinity constant</b>	N/D
<b>Determination method</b>	-
<b>Determination antigen</b>	-

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### Oy Medix Biochemica Ab

**Headquarters and manufacturing**  
Klovinpellontie 3  
FI-02180 Espoo, Finland

medix@medixbiochemica.com  
www.medixbiochemica.com  
VAT reg. no. FI4631532

**Cross-reactivities** N/D

**Epitope** N/D

<b>Pair recommendations</b>	<b>CAPTURE ANTIBODY</b>	<b>DETECTION ANTIBODY</b>
	2503	2510, 2507, 2508
	2510, 2507, 2508	2503

Antibody 2507 prefers HBsAg (ay) subtype.

Please note that pair recommendations are based on results obtained by our laboratory. Equally good results may be obtained using other pairs and therefore these recommendations are only indicative.

<b>Product stability</b>	<b>TEMPERATURE, TIME</b>	<b>RESULT</b>
	-70 °C, 21 days	OK
	-20 °C, 21 days	OK
	+4 °C, 21 days	OK
	+35 °C, 21 days	OK, but some charge alterations
	+45 °C, 7 days	OK, but some charge alterations

Stability testing is performed in the product buffer to see whether different temperatures affect the antigen binding, charge or composition of the antibody. Please note that the shelf life given on the first page is based on real time stability testing at 2–8 °C in the product buffer.

**Miscellaneous** –

**References** –

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