PRODUCT SPECIFICATIONS

Name
Anti–HBsAg 2508 SPTN–5

Specificity
Antibody recognizes hepatitis B virus surface antigen HBsAg (ad/ay)

Description
Monoclonal mouse antibody, cultured in vitro under conditions free from animal-derived components

Product code
100504

Product buffer solution
50 mM Na-citrate, pH 6.0, 0.9 % NaCl, 0.095 % NaN₃ as a preservative

Shelf life and storage
Unspecified, storage at 2–8 °C

Analyte description
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

Product appearance
Liquid, may turn slightly opaque during storage

Product concentration
5.0 mg/ml (+/- 10 %)

Immunoreactivity
80–120 % compared to the reference sample in an FIA test

IEF Profile
5.9 – 7.1

Purity
≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass
IgG2b

Association rate constant
Not Determined (N/D)

Dissociation rate constant
N/D

Affinity constant
N/D

Determination method
-

Determination antigen
-
Cross-reactivities  N/D

Epitope  N/D

Pair recommendations

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2508</td>
<td>2510, 2505, 2507, 2508</td>
</tr>
<tr>
<td>2510, 2507, 2508</td>
<td>2508</td>
</tr>
</tbody>
</table>

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.

Product stability

<table>
<thead>
<tr>
<th>TEMPERATURE, TIME</th>
<th>RESULT</th>
</tr>
</thead>
<tbody>
<tr>
<td>-70 °C, 21 days</td>
<td>OK, but concentration might change</td>
</tr>
<tr>
<td>-20 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+4 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+35 °C, 21 days</td>
<td>OK</td>
</tr>
<tr>
<td>+45 °C, 3 days</td>
<td>OK</td>
</tr>
<tr>
<td>+45 °C, 7 days</td>
<td>Failed due to loss of immunoreactivity</td>
</tr>
</tbody>
</table>

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

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References

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