PRODUCT SPECIFICATIONS

Name: Anti-h HbA1c 2403 SPTN-5

Specificity: Antibody recognizes human glycated hemoglobin A1

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

Product code: 100301

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

Shelf life and storage: 18 months from manufacturing at 2–8 °C

Analyte description: Glycated hemoglobin (HbA1c) is formed in a non-enzymatic process during exposure to plasma glucose. Normal levels of glucose produce a normal amount of glycated hemoglobin. As the average amount of plasma glucose increases, the fraction of glycated hemoglobin increases in a predictable way. This serves as a marker for average blood glucose levels over the previous months prior to the measurement. The 2010 American Diabetes Association Standards of Medical Care in Diabetes added the HbA1c ≥ 48 mmol/mol (≥ 6.5 %) as another criterion for the diagnosis of diabetes.

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: 6.7 – 7.7

Purity: ≥ 95 %

PARAMETERS DETERMINED DURING PRODUCT DEVELOPMENT

Subclass: IgG₁

Association rate constant: Not Determined (N/D)

Dissociation rate constant: N/D

Affinity constant: N/D

Determination method: –

Determination antigen: –
**Cross-reactivities**
No cross-reactivity against non-glycated hemoglobin A1

**Epitope**
N-terminal end of the beta chain

**Pair recommendations**

<table>
<thead>
<tr>
<th>CAPTURE ANTIBODY</th>
<th>DETECTION ANTIBODY</th>
</tr>
</thead>
<tbody>
<tr>
<td>2403</td>
<td>7202, 7204</td>
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</tbody>
</table>

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</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, 7 days</td>
<td>OK</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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