PRODUCT SPECIFICATIONS

PRODUCT NAME: Anti-h IgM 7408 SPRN-5

PRODUCT SPECIFICITY: Antibody recognizes human Immunoglobulin M

PRODUCT CODE: 100084

PRODUCT BUFFER: 37 mM citrate, 125 mM phosphate, pH 6.0, 0.9 % NaCl, 0.1 % NaN₃ as a preservative

SHELF LIFE AND STORAGE: 36 months from manufacturing at 2-8 °C

ANALYTE DESCRIPTION: Immunoglobulin M (IgM) is a basic antibody that is present on B cells. It is the first antibody to appear in response to initial exposure to antigen. IgM forms polymers where multiple immunoglobulins are covalently linked together with disulfide bonds, mostly as a pentamer. Demonstrating IgM antibodies in a patient's serum indicates recent infection, or in a neonate's serum indicates intrauterine infection (e.g. congenital rubella).

PARAMETERS TESTED FROM EACH LOT

PRODUCT APPEARANCE: Clear liquid

PRODUCT CONCENTRATION: 5.0 mg/ml (+/- 10 %)

PRODUCT ACTIVITY: 80-120 % compared to reference in an IFMA-test

IEF-RANGE: 5.5 - 6.4

PURITY: ≥ 95 %

PARAMETERS DETERMINED ONLY DURING PRODUCT R&D PHASE

CLASS AND SUBCLASS: IgG₁

ASSOCIATION CONSTANT:

DISSOCIATION CONSTANT:

AFFINITY CONSTANT: 6 x 10¹⁰ l/mol

DETERMINATION METHOD: Radioimmunoassay (RIA)

ANTIGEN: IgM, Scripps Laboratories (Cat No I1124 Lot 794283)

CROSS-REACTIVITIES:

Human IgG < 0.01 % (Scripps Laboratories Cat No I1424 Lot 484183)
Human IgA < 0.02 % (Scripps Laboratories Cat No I2224 Lot 127283)
Goat IgG < 0.01 % (Chemicon Cat No PP40 Lot 1250CM)
Rabbit IgG < 0.01 % (Chemicon Cat No PP64 Lot 3080CM)
Equine IgG < 0.01 % (Chemicon Cat No PP30 Lot 310JCI1)
Porcine IgG < 0.02 % (Chemicon Cat No AG114 Lot 154JCI1)
Bovine IgG < 0.01 % (Chemicon Cat No PP03 Lot 01291CHM3)
Ovine IgG < 0.01 % (Chemicon Cat No PP44 Lot 0630CM)
**EPI TOPE**

**EPI TOPE GROUP**

Two antibodies binding to the same, or closely located epitopes, belong to the same group and hence cannot be used as a pair in a sandwich assay. Epitope group numbering does not give any detailed information where the epitope is located.

**PAIR RECOMMENDATIONS**

<table>
<thead>
<tr>
<th>SOLID LABEL</th>
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Please note that pair recommendations are based on results obtained in our laboratory and equally good results can be obtained using also other pairs and therefore these recommendations should be taken only as directive.

**PRODUCT STABILITY**

<table>
<thead>
<tr>
<th>TEMPERATURE, DAYS</th>
<th>RESULT</th>
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</thead>
<tbody>
<tr>
<td>-70 °C, 21 days</td>
<td></td>
</tr>
<tr>
<td>-20 °C, 21 days</td>
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<tr>
<td>+4 °C, 21 days</td>
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<td>+25 °C, 21 days</td>
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<td>+35 °C, 7 days</td>
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<td>+35 °C, 21 days</td>
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<tr>
<td>+45 °C, 3 days</td>
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<tr>
<td>+45 °C, 7 days</td>
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</table>

<table>
<thead>
<tr>
<th>pH, 14 DAYS, +4°C</th>
<th>RESULT</th>
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<tbody>
<tr>
<td>5.0</td>
<td></td>
</tr>
<tr>
<td>6.0</td>
<td></td>
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<tr>
<td>7.0</td>
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<tr>
<td>8.0</td>
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**MISCELLANEOUS**

**REFERENCES**


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