PRODUCT SPECIFICATIONS

Name: Anti-HRP2 3901 SPTN-5

Specificity: Antibody recognizes *Plasmodium falciparum* histidine-rich protein 2 (HRP2)

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

Product code: 100559

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

Shelf life and storage: 12 months from manufacturing at 2-8 °C

Analyte description: Malaria is caused by protozoan parasites belonging to the genus *Plasmodium*. The majority of malaria-related deaths are linked to the species *Plasmodium falciparum*. Monoclonal antibodies against *P. falciparum* histidine-rich protein 2 (HRP2) are widely used in malaria rapid diagnostic tests as the parasite secretes substantial amounts of the protein into the host bloodstream.

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**: 6.5 – 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**: –

Legal disclaimer
Medix Biochemica products meet their specifications if transported, stored and used according to the instructions. MedixMAB is a registered trademark of Medix Biochemica and may not be used or reproduced without Medix Biochemica’s written permission.
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>3902</td>
<td>3901</td>
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<tr>
<td>3901</td>
<td>3901, 3902</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>
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</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, minor changes in IEF profile</td>
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</tbody>
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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

Reacts with recombinant HRP2 antigen, Medix Biochemica, 610081.

References

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