**SVANOVIR® MG-Ab**

**Detect Mycoplasma gallisepticum with a blocking ELISA for various avian species**

**SUMMARY** | SVANOVIR® MG-Ab combines the advantages of the high sensitivity of an ELISA assay with high specificity owing to monoclonal antibodies specific to *Mycoplasma gallisepticum* (*M. gallisepticum*). It detects antibodies in both serum and egg yolk samples 10 days post infection. This assay provides the tool to control *M. gallisepticum* and minimise economic losses in poultry production.

**YOUR CHALLENGE** is the *Mycoplasma* infection most pathogenic in avian species

The disease, which can either be subclinical or cause respiratory distress of varying degrees, is referred to as Chronic Respiratory Disease (CRD) in chickens or Infectious Sinusitis in turkeys. Decreased egg production, reduced growth, and increased medication costs result from *M. gallisepticum* infection. Natural hosts and carriers include pheasants, partridges, peafowl, quails, parrots, ducks and geese.

**YOUR GOAL** is to control one of the most costly avian diseases with worldwide distribution

Horizontal as well as vertical transmission can occur and infected birds carry *M. gallisepticum* for life. Seroconversion does not provide lifelong immunity against the disease and serology is seen as the diagnostic tool of choice, especially for screening poultry flocks. Serum agglutination often produces false positive results, whereas ELISA offers a higher specificity.

**ASSAY OVERVIEW**

<table>
<thead>
<tr>
<th>SVANOVIR® MG-Ab</th>
<th>Avian</th>
</tr>
</thead>
<tbody>
<tr>
<td>Species</td>
<td>Serum and egg yolk</td>
</tr>
<tr>
<td>Type</td>
<td>Blocking ELISA</td>
</tr>
<tr>
<td>Article number</td>
<td>104875</td>
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<tr>
<td>Samples* Plates Format</td>
<td>184 2 Strips</td>
</tr>
</tbody>
</table>

* Samples: Max. number of samples for analysis, wells for kit controls excluded.

**Multispecies ELISA** – enables effective testing of various avian species

**High performing test** – blocking format using a mAB against a well-conserved epitope present on a 56 kDa membrane protein

**The only blocking ELISA for *M. gallisepticum* on the market**

**High specificity** – no cross-reactivity with *Mycoplasma synoviae* or other common avian pathogens

**Effective tool** – for diagnosing infection, estimating vaccine efficacy, and confirming results obtained by rapid-plate agglutination test (RPA)

**Developed in collaboration with the Swedish Veterinary Institute**
**PERFORMANCE CHARACTERISTICS**

**SVANOVIR® MG-Ab**

SVANOVIR® MG-Ab demonstrated high accuracy in studies conducted on large sample sizes of avian species (chickens and turkeys) from naturally and experimentally infected populations in external and in-house studies. Relative to the haemagglutination-inhibition test (HI), a sensitivity of 98% could be shown (Kempf et al., 1994). In sera of naturally infected chickens and turkeys, the monoclonal antibody used in the SVANOVIR® MG-Ab assay demonstrated very high sensitivity and specificity in several studies on chickens infected with other avian pathogens (Czifra et al., 1993, 1995, Kasanyitzky et al., 1994). In a ring trial from 2011 (GD Deventer, The Netherlands) SVANOVIR® MG-Ab was able to accurately identify all samples of vaccinated and infected birds.

<table>
<thead>
<tr>
<th>Specimen</th>
<th>Sensitivity</th>
<th>Specificity</th>
<th>Reference method</th>
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</thead>
<tbody>
<tr>
<td>Chicken Serum&lt;sup&gt;a&lt;/sup&gt;</td>
<td>84.7%</td>
<td>100%</td>
<td>SPA*</td>
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</tbody>
</table>

<sup>a</sup> Experimentally infected chickens 10 days post infection; *serum plate agglutination test.

**References:**


