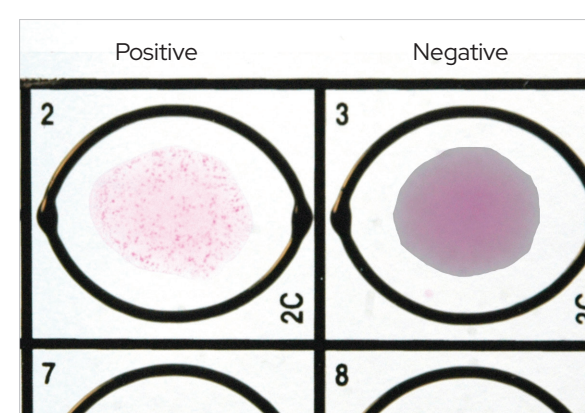


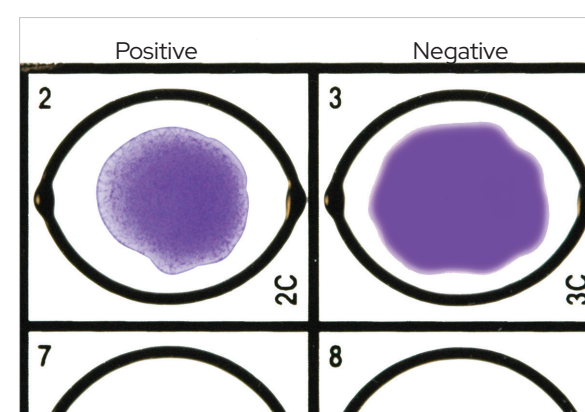
# Mycoplasma and Salmonella Plate Antigens



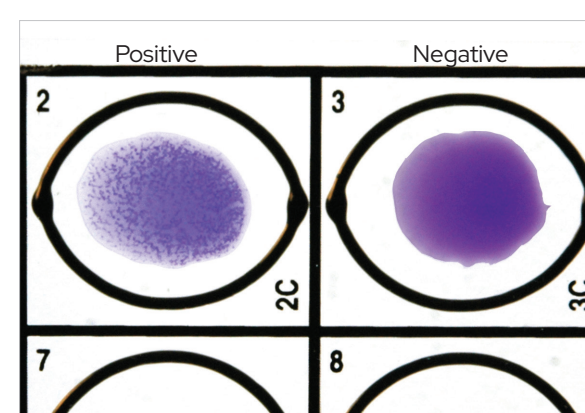
To reduce the risk of disease transmission to other poultry populations, flocks must be continually monitored for *Mycoplasma* and *Salmonella pullorum*. AVS Bio makes it easier for you to safeguard your flocks and to satisfy regulatory authorities.



*Mycoplasma gallisepticum*



*Mycoplasma meleagridis*



*Mycoplasma synoviae*

## Standard Procedure for Performing the SPA Test

1. Prewarm all components (solid plate, antigen, control sera and test sera) to room temperature before use.
2. Vortex the antigen well for 15–20 seconds to mix.
3. Always use the antigen undiluted.
4. Use positive and negative controls each time the assay is performed.
5. Use only 0.04 ml of antigen or one drop from the dispensing tip and 0.04 – 0.05 ml of serum sample.
6. Mix the serum with the antigen, keeping each mixture within one square.
7. Start the timer set for 2 minutes.
8. Gently rotate the plate for a few seconds, then let stand. After one minute, the plate may be rotated again and allowed to stand. After 2 minutes, the reactions can be read.
9. A positive reaction shows formation of discrete clumps of stained material, normally starting at the edge of the mixture. The quality of the serum can affect the appearance, and only stained clumps should be considered suspect. Negative reactions show little change in the opaque serum antigen mixture after 2 minutes.
10. Reagents and sera should never be frozen.



## We offer:

- An antigen portfolio backed by years of dependable production
- Step-by-step tests that are quick, simple and easy to read
- USDA-licensed plate antigens
- All reagents for the plate agglutination test (MG, MM, MS, *Salmonella pullorum*), including control sera

## Assay Principle

The serum plate agglutination (SPA) test is used to detect specific antibodies that will bind to an antigen and cause visible “clumping” or agglutination. The antigen is prepared from cultures of *Mycoplasma gallisepticum*, *Mycoplasma meleagridis* or *Mycoplasma synoviae* (MG, MS or MM) and a dye is added to improve visibility of the reactions. A prescribed amount of antigen is placed on a solid support, such as a glass plate or mirror, keeping each drop of antigen separate. An equal amount of test serum is placed next to the antigen and these are then mixed together. After a short incubation, the mixture is examined for evidence of agglutination, which appears as discrete clumps of the stained particles with a clearer background. If no antibodies are detected, the mixture will remain opaque.

## Indications for Use

These antigens are used in a screening test for the MG, MS and MM status of a flock and should not be used as a final determination of the infection status of individual birds. When used on a flock basis, these antigens provide a simple method for detecting the presence of antibodies in the population. As in all serologic assays, positive reactions should be followed by other tests to confirm the infection status of the flock. It is strongly advised that flocks that give positive reactions in the SPA test be sampled for confirmatory testing before the infection status is verified. Repeated testing is also needed to continue certification that the flock is negative. Consult your poultry veterinarian in case of any clinical signs or questionable reactions. **DO NOT DESTROY ANY CHICKEN OR TURKEY FLOCK BASED UPON RESULTS OF TESTING WITH THIS ANTIGEN.**

## Reagents for the Plate Agglutination Test

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|--|--|
| • <i>Mycoplasma gallisepticum</i> Plate Antigen:             | <b>Material #</b> 10100760 – 10 ml, 250 tests  |
| • <i>Mycoplasma meleagridis</i> Plate Antigen:               | <b>Material #</b> 10100825 – 10 ml, 250 tests  |
| • <i>Mycoplasma synoviae</i> Plate Antigen:                  | <b>Material #</b> 10100761 – 10 ml, 250 tests  |
| • <i>Mycoplasma gallisepticum</i> Control Serum:             | <b>Material #</b> 10100703 – 1 ml              |
| • <i>Mycoplasma meleagridis</i> Control Serum:               | <b>Material #</b> 10100708 – 1 ml              |
| • <i>Mycoplasma synoviae</i> Control Serum:                  | <b>Material #</b> 10100706 – 1 ml              |
| • Negative Control Serum:                                    | <b>Material #</b> 10100511 – 1 ml              |
| • <i>Salmonella pullorum</i> Plate Antigen:                  | <b>Material #</b> 10100762 – 50 ml, 1000 tests |
| • <i>Salmonella</i> Polyvalent (Groups B & D) Control Serum: | <b>Material #</b> 10100702 – 1 ml              |

## Confirmatory Testing Reagents

- |   |                                   |
|---|-----------------------------------|
| • <i>Mycoplasma gallisepticum</i> Whole Organism: | <b>Material #</b> 10100704 – 1 ml |
| • <i>Mycoplasma synoviae</i> Whole Organism:      | <b>Material #</b> 10100707 – 1 ml |
| • <i>Mycoplasma gallisepticum</i> Antiserum:      | <b>Material #</b> 10100478 – 1 ml |
| • <i>Mycoplasma synoviae</i> Antiserum:           | <b>Material #</b> 10100482 – 1 ml |
| • Negative Serum:                                 | <b>Material #</b> 10100380 – 1 ml |
- Standard Procedure for Performing the SPA Test