

Sperm Antibody A/G Serum Controls

FOR RESEARCH USE ONLY

Description:

Sperm Antibody Positive A/G Serum: 1 ml heat-inactivated human serum containing antibodies of the IgA and IgG classes that bind to human sperm, with 0.1% sodium azide. Ready to use.

Sperm Antibody Negative Serum: 1 ml heat-inactivated human serum containing no antibodies that bind to human sperm, with 0.1% sodium azide. Ready to use.

Note: These serum controls may look cloudy due to lipemia. Lipemic serum will not interfere with test results.

Uses:

These products are suitable for use as controls in sperm antibody assays such as ImmunoSpheres®, IBT™, MarScreen® IgG, and others. They cannot be used in an indirect MarScreen® IgA, an indirect MarScreen® IgM, or with an indirect ImmunoSpheres® Anti-IgM or an indirect IBT™ Anti-IgM.

Direct sperm antibody assays (on sperm): Because of the impracticality of using specimens of antibody-positive sperm as a positive control in direct sperm antibody tests, use serum controls instead. To prepare antibody-positive sperm, start with sperm known to be negative for antibodies. Wash sperm free of seminal plasma. Then incubate the washed sperm with **Sperm Antibody Positive A/G Serum** at a final dilution of 1:10, as in the protocol for the indirect ImmunoSpheres® or IBT™. Wash the sperm free of **Sperm Antibody Positive A/G Serum** and then use the prepared sperm as a positive control for antibody-positive sperm.

As an additional control, always prepare antibody-negative sperm at the same time using the **Sperm Antibody Negative Serum**. To do this, incubate the washed sperm with **Sperm Antibody Negative Serum** at a final dilution of 1:10. Wash the sperm free of **Sperm Antibody Negative Serum** and then use the prepared sperm as a negative control for antibody-negative sperm exposed to serum.

Indirect sperm antibody assays (in serum): Follow the manufacturer's directions for testing serum.

Specifications:

A 1/10 final dilution of the **Sperm Antibody Positive A/G Serum** will give a greater than 90% total binding of Anti-IgG beads and about 20% total binding of Anti-IgA beads in the indirect IBT™ when incubated for one hour at 37°C using donor sperm. A 1/100 dilution gives a negative result.

A 1/10 final dilution of the **Sperm Antibody Negative Serum** has no detectable immunoglobulins that will bind to sperm.

Recommendations:

The researcher should determine the optimal working dilution(s) of these products. The following information is provided as a guideline to the researcher:

MarScreen®: Dilute serum 1:16 before using in the Indirect MarScreen® IgG. For example, add 20 µl serum to 300 µl sperm washing medium.

ImmunoSpheres® or IBT™: Use serum at a final dilution of 1:10 in either indirect Anti-IgG or indirect Anti-IgA test. For example, add 50 µl serum to 400 µl sperm washing medium and 50 µl washed sperm (~50 million motile sperm/ml) suspension. The researcher should establish the % total binding of the **Sperm Antibody Positive A/G Serum** when it is used in either indirect Anti-IgA test.

Caution:

The **Sperm Antibody Positive A/G Serum** and the **Sperm Antibody Negative Serum** have been tested and found negative for HIV antibody and hepatitis B surface antigen, but negative results do not guarantee absence of virus.

Storage:

Store the reagents at 2°C to 8°C. They can be used until the expiration date on each label. The expiration date is 18 months from the date of manufacture.

Do not freeze.