INTENDED USE
The SpermMar Test IgG is a diagnostic kit for detecting antisperm antibodies in the IgG class in human semen or serum. The direct SpermMar Test IgG can be performed as an alternative to the indirect SpermMar Test IgG if the specimen provided contains sufficient motile spermatozoa, the indirect SpermMar Test IgG can be used as an assay. The presence of antisperm antibodies can interfere with sperm function and binding and the acrosome reaction.

GENERAL INFORMATION
The presence of sperm antibodies reacting with antigens on the spermatozoa is considered as specific and specific for immunological infertility (2, 4, 5). These antibodies are found in approximately 8% of infertile men (13). Sperm antibodies belong to two immunologically classic classes: IgG and IgA antibodies. There are some data indicating IgA to be more clinically important than IgG antibodies. However, IgA antibodies rarely occur without IgG antibodies. Therefore, testing for IgA antibodies is sufficient for routine screening methods (6, 7, 14). The indirect SpermMar Test IgG is performed by mixing fresh, extirpated semen with latex particles that have been coated with human IgG (anti-IgG). This coating will be monospecific: antisperm IgG anti-IgG is produced. The formation of agglutinates between particles and motile spermatozoa indicates the presence of IgG antibodies on the spermatozoa (15, 16). In this indirect SpermMar Test IgG washed motile spermatozoa are incubated with diluted and de-complemented patient serum or female or male serum. If the semen contains antisperm antibodies, these will cover the donor spermatozoa which will react positively in a subsequent SpermMar Test IgG.

PRODUCT CODES AND KIT CONTENTS
SpermMar Test IgG Positive control serum 1 vial with 2.5 ml of positive control serum for the SpermMar Test IgG.
SpermMar Test IgG Negative control serum 1 vial with 2.5 ml of negative control serum for the SpermMar Test IgG.

MATERIALS INCLUDED WITH THE TEST
• 1 vial containing 0.7 ml SpermMar Test IgG Latex Particles
• 1 vial containing 0.7 ml SpermMar Test IgG Antiserum
• Micro Slides 76 x 26 mm
• Cover glasses
• Microtiter plate (e.g. Kima 650 101)
• Micro Pipettes (complete test).

MATERIALS NOT INCLUDED WITH THE TEST
• Light microscope (with 40x to 600x magnification, bright field, dark field or phase contrast)
• EBSS reagents (enough for 3 tests)
• Patient serum of male or female origin. If the serum contains antisperm antibodies, these will cover the donor spermatozoa which will react positively in a subsequent SpermMar Test IgG.

DIRECTIONS FOR USE
We recommend to watch our demonstration videos (downloadable via our website) to learn more about the use of our products.

SPECFICATION/COLLECTION & PREPARATION
Semen collection by masturbation is preferred. Where this is not possible, specimens should be collected by masturbation. Specimens should be free of copulatory fluids. This means that the donor should not have his seminal fluid extruded into the specimen collecter. Ordinary condoms should not be used for semen collection because they may interfere with the motility of spermatozoa.

REAGENT PREPARATION
SpermMar Test IgG Latex Particles are ready to use. However, when a thorough mixing before use is to be performed a homogeneous suspension. SpermMar Test IgG Antiserum is ready to use.

DIRECT SPERMMAR TEST IGG
1. Allow the reagents and specimens to adjust to room temperature.
2. On a micro slide place :
• 10 microlitres of fresh extirpated semen
• > 10 microlitres of SpermMar Test IgG Latex Particles
• > 10 microlitres of SpermMar Test IgG Antiserum
• Microtiter plate (e.g. Kima 650 101)

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