

## FertiCult Flushing medium™

CELL CULTURE MEDIUM FOR WASHING OF HUMAN OVA, SPERMATOZOA AND EMBRYOS, FOR EMBRYO TRANSFER AND OOCYTE PICK-UP

FertiCult Flushing medium is sterilized by aseptic filling  
**STERILE [A]**

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### GENERAL INFORMATION

FertiCult Flushing medium is a ready to use formulation for washing of human ova, spermatozoa and embryos, for egg collection and for embryo transfer.

FertiCult Flushing medium contains HEPES; no CO<sub>2</sub> incubation is required.

FertiCult Flushing medium does not contain heparin. For oocyte pick-up, add heparin or use FertiCult aspiration medium.

As with all IVF media, flushing medium has to be **pre-incubated in the incubator for 24 hours before use** (with lid closed).

### MATERIAL INCLUDED WITH THE KIT

*Productcode: FLUSH-20*

9 x 20mL FertiCult Flushing medium

*Productcode: FLUSH-50*

5 x 50mL FertiCult Flushing medium

*Productcode: FLUSH-100*

3 x 100mL FertiCult Flushing medium

*Productcode: ASPI-100*

5 x 100mL FertiCult Aspiration medium

### MATERIAL NOT INCLUDED WITH THE KIT

- Incubator
- Petri dishes
- Laminar flow
- Microscope
- Test tubes

### PRODUCT SPECIFICATIONS AND QUALITY CONTROL

FertiCult Flushing medium is manufactured according to these specifications:

- pH: 7.20 - 7.40
- Osmolality: 275 - 285 mOsm/kg
- Endotoxin: < 0.25 EU/mL
- Sterility: Sterile
- Mouse-embryo test: > 70% blastocysts after 96 hours in culture
- Use of Ph Eur or USP grade products if applicable

### Instructions for use (suggested procedures)

#### EGG COLLECTION

Please note that FertiCult Flushing medium does not contain heparin, add heparin or use FertiCult Aspiration medium.

At egg collection, keep FertiCult Flushing medium at 37°C or as close to this as possible.

Take about 20-50mL at a time, using a rubber free syringe (e.g.. Braun Injekt). Assemble needle and tubing set according to manufacturers instructions.

Attach syringe containing FertiCult Flushing medium to the appropriate luer, allowing connection to the lumen of the

needle.

The person holding the syringe should try to apply warmth to it by holding it in the palm of the hand covering as much of the syringes surface as possible.

During aspiration of follicles, if an ovum is not extracted after a follicle has been emptied, flushing is indicated. The collapsed follicle may be refilled with FertiCult Flushing medium, after which it may be aspirated once again. This may be repeated again and again, after refilling the syringe with fresh warm flush medium each time, until an ovum is recovered or the surgeon decides to abandon the follicle (after three attempts at flushing it may be sensible to move on, but the ultimate decision remains with the surgeon)

#### WASHING OF SPERMATOZOA

The washing of spermatozoa can be done at room temperature or at 37°C.

Centrifuge the native semen sample for 15 minutes at approximately 300g.

Remove supernatant and leave about 0.5mL of unwashed semen in the centrifuge tube. Add 3mL of FertiCult Flushing medium to the test-tube. Mix the solution gently till the pellet is completely dissolved.

Centrifuge again for 15 minutes at 300g.

Repeat this procedure as many times as considered necessary, 2 washing cycles should however be sufficient to remove semen plasma.

#### SWIM-UP PROCEDURE (ACCORDING TO WHO, 1992)

Gently layer 1,5mL of FertiCult Flushing medium over 1mL of semen in a conical based centrifuge tube.

The tube is inclined at an angle of 45° and incubated for 1 hour at 37°C.

It is then gently turned to the upright position and the uppermost 1mL removed.

Dilute this aliquot of motile cells with 8 volumes of FertiCult Flushing medium; centrifuge for 15 minutes at 300g, and finally resuspend in 0.5mL of FertiCult Flushing medium.

### STORAGE AND CONSERVATION

Store FertiCult Flushing medium at 2-25°C.

Once opened store medium at 2-8°C.

Keep from light.

### WARNING AND PRECAUTION

All human, organic material should be considered potentially infectious.

Handle all specimens as if capable of transmitting HIV or hepatitis. Always wear protective clothing when handling specimens.

FertiCult Flushing medium does not contain antibiotics, always work under strict hygienic conditions (laminar flow) to avoid contamination, or add your own antibiotics (penicillin) at about 100 units per mL.

**Don't use FertiCult Flushing medium if cloudy.**

### BIBLIOGRAPHY

WHO laboratory manual for the examination of human semen and sperm-cervical mucus interaction, 3rd edition, Cambridge University Press, Avon, 1992, pp. 107

FertiCult Flushing medium is produced by:  
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