

# SpermFilter®

## PRODUCT INFORMATION

### Stock solution 100%

Catalogue no.	
SPF-0050	50 ml
SPF-0100	100 ml
SPF-0250	250 ml
SPF-0500	500 ml

#### Application

SpermFilter® is a silane-silica based density gradient medium used in ART for separation and purification of highly motile human spermatozoa.

#### Composition

SpermFilter® is composed of silica particles covalently coated with silane and resuspended in isotonic phosphate and Hepes buffered saline.

#### Quality Control

- pH: 7.4 ± 0.2
- Osmolality: 300 ± 10 mOsm/kg
- Endotoxin: < 0.1 ng/ml (<1 EU/ml)
- Sterility: SAL 10<sup>-3</sup>
- Each batch is tested by human sperm purification and survival before release.

Download certificate of analysis on [www.cryosinternational.com](http://www.cryosinternational.com)

#### Shelf Life

Two years from production date when stored refrigerated (2°- 8° C). After opening, use aseptic working procedures. Avoid freezing.

#### Sterility

The medium is sterilized by filtration and sterility is ensured by testing each batch. Sterility tests verify the absence of viable micro-organism (bacteria, yeast and fungi).

#### Packages

The medium is supplied in pharmaceutical grade borosilicate glass bottles with Teflon-coated rubber stoppers and tamper proof seals.

### Ready-to-use gradients 40% & 80%

Catalogue no.	
SPFG40-0010	10 ml
SPFG80-0010	10 ml
SPFG40-0050	50 ml
SPFG80-0050	50 ml
SPFG40-0100	100 ml
SPFG80-0100	100 ml
SPFG40-0250	250 ml
SPFG80-0250	250 ml

SpermFilter® **ready-to-use** gradients are diluted with **SpermWash®** (Hepes buffered isotonic medium with Gentamicin). Product information for SpermWash®: ask for separate information sheet. Gradients are delivered as 40% (v/v) and/or 80% (v/v). Shelf life gradients: 18 months from production date. Store refrigerated at 2°- 8° C. Avoid freezing and exposure to light.



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Distributor:

(Instructions for use on back page)

# SpermFilter®

## Instructions for use

### 100% SpermFilter®

Prior to use SpermFilter® (100%) should be diluted to the preferred density with SpermWash® (distributed by Cryos). Both SpermFilter® and SpermWash® should be at ambient temperature before preparing the dilutions. SpermFilter® maintains a physiological pH at ambient conditions. Do not use SpermFilter® in a CO<sub>2</sub> incubator unless tightly capped.

SpermFilter® is supplied sterile without any antibiotics. Remove the plastic cap from the bottle and wash the rubber membrane with 70% alcohol. Aspirate the medium with a sterile needle/syringe. Alternatively you can remove the whole aluminium cap and aspirate the medium with a pipette under sterile conditions.

### Dilution of 100% SpermFilter®

Pre-made ready-to-use 40 % (v/v) and 80 % (v/v) gradients are available from Cryos. However, gradients of individual choices can be prepared.

Mix the 100% SpermFilter® solution carefully before use.

To make an 80 % (v/v) SpermFilter® gradient dilute 8 vol. of SpermFilter® with 2 vol. Hepes buffered medium. After carefully mixing the 80% gradient take 1 vol. 80 % (v/v) SpermFilter® gradient and dilute with 1 vol. Hepes buffered medium.

### Example:

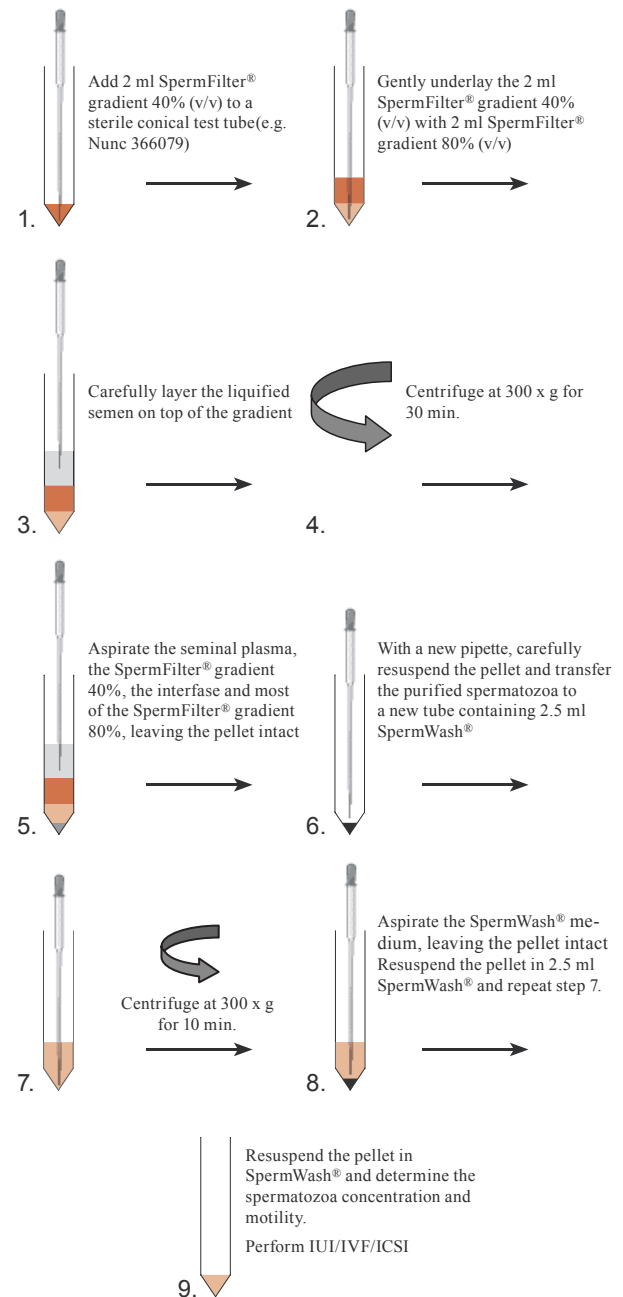
To prepare 8 ml. 80% (v/v) and 8 ml. 40% (v/v) SpermFilter® gradients:

80% (v/v) SpermFilter® gradient: Take 9.6 ml 100% (v/v) SpermFilter® and 2.4 ml Hepes buffered medium. Carefully mix this 80% (v/v) gradient.

40% (v/v) SpermFilter® gradient: Take 4.0 ml of the 80% (v/v) gradient and dilute with 4.0 ml Hepes buffered medium.

The volume of semen is dependent on the semen quality. The more spermatozoa, other cells or debris, the less volume. It is generally recommended to run two parallel gradients instead of overloading one gradient.

### How to prepare a SpermFilter® gradient and purify spermatozoa.



Graphical symbols used on the labels are in accordance with the European Standard for labelling of medical devices (EN 980:2003).

SYMBOL	MEANING
	Catalogue number
	Batch code
	Use by (expire date)
	Temperature limitations (store at 2° - 8° C)
	Sterile medical device processed using aseptic technique (sterile filtration)
	Consult instructions for use