FertiPro & product catalogue
FertiPro

Your partner in semen analysis and Assisted Reproductive Technologies

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FERTIPRO

Founded in 1992, FertiPro is a reliable, independent manufacturer of in vitro diagnostics and cell culture media used in assisted reproductive technologies and the diagnosis of male infertility.

PRODUCT RANGE

We manufacture in vitro diagnostic kits for the determination of neutral alpha-glucosidase, fructose, anti-sperm antibodies, sperm vitality, white blood cells and sperm morphology in human semen samples. Our media range includes cell culture media for use in all stages of IVF and ICSI procedures as well as pre-washed, light paraffin oil, a ready-to-use hyaluronidase solution, PVP solution, density gradients for sperm selection and media for cryopreservation (slow freezing and/or vitrification) of human oocytes, spermatozoa and embryos.

MANUFACTURING

Manufacturing takes place in our own, state-of-the-art, fully environmentally controlled, production facility in Beernem, Belgium.

CERTIFICATION & QUALITY ASSURANCE

FertiPro is an ISO9001 and ISO13485 certified company, that participates in the MDSAP program. We have product registrations in Europe, Canada, United States of America and in increasingly more countries worldwide. A complete list can be found on our website. All of our diagnostic kits and ART media are CE marked either as in vitro diagnostics or as medical devices. Certificates of analysis for all our products are available upon request.

CONTRACT MANUFACTURING

Contact us for more information regarding contract manufacturing for your company.
Semen analysis: product range diagnostics

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**Immunology**
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Spermac Stain
Sperm morphology stain

PRODUCT
Assessment of sperm morphology is a standard procedure in semen analysis. The Spermac Stain method is simple yet perfectly adequate for the detailed investigation of morphology of all parts of the spermatozoa. The stained smears are assessed under direct bright light and oil immersion (1000x).

PRODUCT ORDER CODES
SPS050 Spermac Stain – 4x 50ml
SPS250 Spermac Stain – 4x 250ml

PRODUCT INSTRUCTION VIDEO
An instruction film on the use of Spermac Stain is available on YouTube.

STORAGE
Store between 2-25°C
36 months from date of manufacture

REGULATORY
Europe: CE-marked – USA: registered – Canada: registered
Brazil: registered – Australia: registered
Other regions: information available upon request

SpermMar Test IgA & IgG
Test for the detection of anti-sperm antibodies

PRODUCT
SpermMar Test IgA and SpermMar Test IgG are rapid, easy-to-use, microscopic tests for the detection of anti-sperm antibodies in semen and serum. Anti-sperm antibodies (ASA) are produced when the blood-testis barrier is disrupted by obstruction, infection or traumatism. Immunoglobulins of the IgG class are usually present in both serum and semen, and the IgG antibodies attach to the spermatozoa. ASA of the IgA class are secreted by the accessory sex glands and are found in semen only. ASA of the IgG class may be detected in seminal plasma, but there is usually no free IgA in seminal plasma. Anti-sperm antibodies of the IgG class almost never occur without IgA antibodies. In case more than 40% of motile spermatozoa present ASA of the IgG class, complementary testing for IgA antibodies is advisable. The immunological factor reduces the probability of natural conception, and this is particularly true when ASA of the IgA class are also present.

PRODUCT ORDER CODES
SPMA_S SpermMar Test IgA single kit – 50 tests
SPMA_C SpermMar Test IgA complete kit* – 50 tests
SPMG_S SpermMar Test IgG single kit – 50 tests
SPMG_C SpermMar Test IgG complete kit* – 50 tests
SPMG_P SpermMar Test IgG Positive Control – 50 tests
SPMG_N SpermMar Test IgG Negative Control – 50 tests

PRODUCT INSTRUCTION VIDEO
Instruction films on the use of SpermMar Test IgA & IgG are available on YouTube.

STORAGE
Store at 2-8°C
SpermMar Test IgA: 12 months from date of manufacture
SpermMar Test IgG: 18 months from date of manufacture

REGULATORY
Europe: CE-marked – USA: registered – Canada: Health Canada License
Brazil: registered – Australia: registered
Other regions: information available upon request

* The complete kit contains pipettes and glassware to perform the test.
This eosin-nigrosin staining technique is based on the principle that dead cells will take up the eosin and as a result stain red. The nigrosin provides a dark background which makes it easier to assess the slides.

The Hypo-osmotic Swelling Test is based on the principle that live spermatozoa swell due to the absorption of a hypo-osmotic solution. The Hypo-osmotic Swelling Test is based on the test procedures described in the WHO laboratory manual for the examination and processing of human semen (2010).

VitalScreen
Sperm vitality test

**STORAGE**
Store between 2-25°C

**REGULATORY**
Europe: CE-marked – USA: registered – Canada: registered
Brazil: registered – Australia: registered
Other regions: information available upon request

**PRODUCT ORDER CODES**
VITAL VitalScreen – 200 tests

**PRODUCT INSTRUCTION VIDEO**
An instruction film on the use of VitalScreen is available on YouTube.

**HYPO-Osmotic swelling TEST**
Sperm vitality test

**STORAGE**
Store between 2-8°C

**REGULATORY**
Europe: CE-marked – Canada: Health Canada License
Brazil: registered – Australia: registered
Other regions: information available upon request

**PRODUCT ORDER CODES**
HOST Hypo-osmotic Swelling Test – 5x 20ml

**PRODUCT**
The Hypo-osmotic Swelling Test is based on the principle that live spermatozoa swell due to the absorption of a hypo-osmotic solution. The Hypo-osmotic Swelling Test is based on the test procedures described in the WHO laboratory manual for the examination and processing of human semen (2010).

**PRODUCT INSTRUCTION VIDEO**
An instruction film on the use of the Hypo-osmotic Swelling Test is available on YouTube.
LeucoScreen Plus

**PRODUCT**
LeucoScreen Plus is an improved histochemical staining kit for the determination of peroxidase-positive white blood cells in semen. The kit provides useful information in semen samples where the concentration of round cells exceeds 1 million/ml. LeucoScreen Plus has an equal capability to distinguish between peroxidase-positive and -negative round cells as the LeucoScreen kit (same assay performance), but has the advantage that the substrate is not carcinogenic. The color of the substrate in peroxidase-positive white blood cells is bluish-grey to black instead of brown (LeucoScreen). The kit has been designed for 40 days of analysis.

**STORAGE**
12 months from date of manufacture

**REGULATORY**
Europe: CE-marked – USA: registered – Brazil: registered – Canada: registered – Other regions: information available upon request

**PRODUCT ORDER CODE**
LEUCO_PLUS

**PRODUCT INSTRUCTION VIDEO**
An instruction film on the use of LeucoScreen Plus is available on YouTube. Training form can be downloaded from www.fertipro.com

**Citric Acid Test**

**PRODUCT**
Citric acid is secreted by the prostate and contributes to the acidic pH of prostatic fluid. Deficient secretion of citric acid occurs in case of infection of the prostate (prostatitis) which is usually accompanied by infection of the other accessory sex glands (epididymo-vesiculitis). The total output of citric acid per ejaculate was found to be the best marker of prostate function. It is recommended to measure citric acid concentration in all semen samples, particularly if history taking, clinical investigation, or an increased number of white blood cells in urine or semen suggest male accessory gland infection.

**STORAGE**
12 months from date of manufacture

**REGULATORY**
Europe: CE-marked – Australia: registered – Other regions: information available upon request

**PRODUCT ORDER CODE**
CITRIC

**PRODUCT INSTRUCTION VIDEO**
An instruction film on the use of the Citric Acid Test is available on YouTube.
Fructose Test
Kit for the determination of fructose in seminal plasma

PRODUCT
The major part of the ejaculate volume, which contains fructose, is secreted by the seminal vesicles. Deficient secretion of the seminal vesicles occurs in cases of hypo-androgenism or after infection of the seminal vesicles. In these cases the ejaculate volume is lower than normal and fructose concentration is decreased. In congenital agenesis of the seminal vesicles, which is commonly associated with congenital bilateral absence of the deferential ducts (CBAVD), the patient presents with azoospermia, low ejaculate volume, acidic semen pH, and there is no fructose in the seminal plasma.

An Excel sheet for the calculation of test results obtained with the Fructose Test can be downloaded from our website.

STORAGE
2°C – 8°C
24 months from date of manufacture

REGULATORY
Europe: CE-marked – Australia: registered
Other regions: information available upon request

PRODUCT ORDER CODE
FRUCTO Fructose Test – 96 tests

PRODUCT INSTRUCTION VIDEO
An instruction film on the use of the Fructose Test is available on YouTube.

EpiScreen Plus
Kit for the determination of neutral alpha-glucosidase in seminal plasma

PRODUCT
Semen contains neutral alpha-glucosidase secreted by the epididymis. EpiScreen Plus is a reliable and useful kit which aids in determining the cause of azoospermia in patients with normal androgen levels in peripheral blood. Patients with a bilateral obstruction located between the epididymis and ejaculatory duct have very low alpha-glucosidase activity in their seminal plasma. In contrast, patients in whom azoospermia is due to an arrest of sperm maturation, obstruction between epididymis - rete testis, or in the rete testis itself, have normal alpha-glucosidase activity in seminal plasma.

An Excel sheet for the calculation of test results obtained with the EpiScreen Plus kit can be downloaded from our website.

STORAGE
2°C – 8°C
12 months from date of manufacture

REGULATORY
Europe: CE-marked – Australia: registered
Other regions: information available upon request

PRODUCT ORDER CODE
EPIPLUS EpiScreen Plus – 25 tests

PRODUCT INSTRUCTION VIDEO
An instruction film on the use of EpiScreen Plus is available on YouTube.

PRODUCT
Semen contains neutral alpha-glucosidase secreted by the epididymis. EpiScreen Plus is a reliable and useful kit which aids in determining the cause of azoospermia in patients with normal androgen levels in peripheral blood. Patients with a bilateral obstruction located between the epididymis and ejaculatory duct have very low alpha-glucosidase activity in their seminal plasma. In contrast, patients in whom azoospermia is due to an arrest of sperm maturation, obstruction between epididymis - rete testis, or in the rete testis itself, have normal alpha-glucosidase activity in seminal plasma.

An Excel sheet for the calculation of test results obtained with the EpiScreen Plus kit can be downloaded from our website.

STORAGE
2°C – 8°C
12 months from date of manufacture

REGULATORY
Europe: CE-marked – Australia: registered
Other regions: information available upon request

PRODUCT ORDER CODE
EPIPLUS EpiScreen Plus – 25 tests

PRODUCT INSTRUCTION VIDEO
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PRODUCT
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An Excel sheet for the calculation of test results obtained with the EpiScreen Plus kit can be downloaded from our website.

STORAGE
2°C – 8°C
12 months from date of manufacture

REGULATORY
Europe: CE-marked – Australia: registered
Other regions: information available upon request

PRODUCT ORDER CODE
EPIPLUS EpiScreen Plus – 25 tests

PRODUCT INSTRUCTION VIDEO
An instruction film on the use of EpiScreen Plus is available on YouTube.
<table>
<thead>
<tr>
<th>Assisted Reproductive Technologies: ART media</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Sperm processing</strong></td>
</tr>
</tbody>
</table>
| - Washing/swim-up  
  p. 18 FertiCult Flushing medium  
  p. 20 Sil-Select Plus Sperm Washing/Insemination medium  
  p. 28 GAIN medium |
| **Intrauterine insemination** |
| - Denudation  
  p. 25 Hyaluronidase in FertiCult Flushing medium  
  p. 26 Oocyte incubation  
  p. 28 GAIN medium |
| **Oocyte handling** |
| - Pick-up  
  p. 24 FertiCult Aspiration medium |
| **Fertilization** |
| - Embryo culture  
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  p. 30 FertiCult Mineral Oil  
  p. 28 Culture overlay |
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| - Embryo washing  
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| **Embryo transfer** |
| - Sperm cryopreservation  
  p. 31 SpermFreeze  
  p. 32 SpermFreeze SSP |
| **Cryopreservation** |
| - Oocyte cryopreservation  
  p. 33 FertiVit Cooling / FertiVit Warming  
  p. 34 VitrInFreeze ES / VitrIThaw ES  
  p. 35 VitrInFreeze / VitrIThaw  
  p. 36 EmbryoFreeze / EmbryoThaw |
FertiCult Flushing medium
HEPES buffered cell culture medium for use in human ART

PRODUCT
FertiCult Flushing medium is a chemically balanced salt solution (HEPES buffered) with 4 g/liter human serum albumin (HSA, Ph Eur, USP, FDA approved), used for oocyte washing, embryo replacement, sperm injection in ICSI, sperm washing, density gradient preparation and swim-up techniques in human IVF. FertiCult Flushing medium is available with or without phenol red and/or gentamicin.

PRODUCT ORDER CODES
- FertiCult Flushing FLUSH020 – 5x 20ml
- FertiCult Flushing FLUSH050 – 5x 50ml
- FertiCult Flushing FLUSH100 – 3x 100ml
- FertiCult Flushing FLUSH020PHR – 5x 20ml with phenol red
- FertiCult Flushing FLUSH050PHR – 5x 50ml with phenol red
- FertiCult Flushing FLUSH100PHR_G – 3x 100ml with gentamicin
- Sil-Select Plus Sperm Washing/ WASH020 – 1x 20 ml
- Sil-Select Plus Sperm Washing/ WASH050H – 1x 50 ml
- Sil-Select Plus Sperm Washing/ WASH100H – 1x 100 ml

REGULATORY
Europe: CE-marked (Notified Body 0344) – Canada: Health Canada License – Brazil: registered
Other regions: information available upon request

PRODUCT SPECIFICATIONS
- pH (ambient air) 7.30 - 7.90 (release criteria: 7.30 - 7.60)
- Osmolarity 270 - 290 mOsm/kg
- Sterility SAL 10⁻³
- Endotoxin < 0.5 EU/ml
- Mouse embryo assay* ≥ 80% blastocysts formed after 96h incubation
- Water All FertiPro media are manufactured using ultra purified water (Ph Eur)
- Ingredients Where applicable Ph Eur or USP grade raw materials are used
- In-use stability Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

STORAGE
Keep away from (sun)light
Store between 2-25°C
Media with gentamicin: store between 2-8°C
18 months from date of manufacture

PRODUCT ORDER CODES
- FertiCult Flushing FLUSH020 – 5x 20ml
- FertiCult Flushing FLUSH050 – 5x 50ml
- FertiCult Flushing FLUSH100 – 3x 100ml
- FertiCult Flushing FLUSH020PHR – 5x 20ml with phenol red
- FertiCult Flushing FLUSH050PHR – 5x 50ml with phenol red
- FertiCult Flushing FLUSH100PHR_G – 3x 100ml with gentamicin
- Sil-Select Plus Sperm Washing/ WASH020 – 1x 20 ml
- Sil-Select Plus Sperm Washing/ WASH050H – 1x 50 ml
- Sil-Select Plus Sperm Washing/ WASH100H – 1x 100 ml

REGULATORY
Europe: CE-marked (Notified Body 0344) – Canada: Health Canada License – Brazil: registered
Other regions: information available upon request

PRODUCT SPECIFICATIONS
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STORAGE
Keep away from (sun)light
Store between 2-25°C
Media with gentamicin: store between 2-8°C
18 months from date of manufacture
**PRODUCT**

Sil-Select Plus is FertiPro’s in-house developed gradient system for semen preparation. Sil-Select Plus is a solution of silane-coated silica particles in Earle’s Balanced Salts Solution (EBSS) with HEPES (pH buffer) and supplemented with a small amount of HSA. Extensive tests during the design phase have shown that the product is non-cytotoxic and non-irritant with a non-significant allergenic potential. Sil-Select Plus is manufactured from raw colloidal silica, with full control over each step in the production process. Sil-Select Plus are ready-to-use dilutions of Sil-Select Stock.

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th></th>
<th>UPPER LAYER</th>
<th>LOWER LAYER</th>
<th>80%</th>
</tr>
</thead>
<tbody>
<tr>
<td>pH (ambient air)</td>
<td>7.20 - 7.90</td>
<td>7.20 - 7.90</td>
<td>7.20 - 7.90</td>
</tr>
<tr>
<td>(release criteria: 7.20 - 7.60)</td>
<td>(release criteria: 7.20 - 7.60)</td>
<td>(release criteria: 7.20 - 7.60)</td>
<td></td>
</tr>
<tr>
<td>Osmolality</td>
<td>280 - 310 mOsm/kg</td>
<td>290 - 330 mOsm/kg</td>
<td>290 - 330 mOsm/kg</td>
</tr>
<tr>
<td>Sterility</td>
<td>SAL 10&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SAL 10&lt;sup&gt;1&lt;/sup&gt;</td>
<td>SAL 10&lt;sup&gt;1&lt;/sup&gt;</td>
</tr>
<tr>
<td>Endotoxin</td>
<td>&lt; 0.5 EU/ml</td>
<td>&lt; 0.5 EU/ml</td>
<td>&lt; 0.5 EU/ml</td>
</tr>
<tr>
<td>Density</td>
<td>1.105 - 1.115 g/ml</td>
<td>1.097 - 1.107 g/ml</td>
<td>1.097 - 1.107 g/ml</td>
</tr>
<tr>
<td>Sperm Survival Test</td>
<td>≥ 80% motility recovery after 4h exposure of spermatozoa to the test medium;</td>
<td>≥ 75% motility recovery after 24h exposure of spermatozoa to the test medium;</td>
<td>All FertiPro media are manufactured using ultra purified water (Ph Eur)</td>
</tr>
<tr>
<td>Ingredients</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
<td>Can be used safely up to 7 days after opening, when sterile conditions are maintained</td>
</tr>
<tr>
<td>In-use stability</td>
<td>Can be used safely up to 7 days after opening, when sterile conditions are maintained</td>
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</tr>
<tr>
<td>Density</td>
<td>1.105 - 1.115 g/ml</td>
<td>1.097 - 1.107 g/ml</td>
<td>1.097 - 1.107 g/ml</td>
</tr>
<tr>
<td>Water All</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
<td>Can be used safely up to 7 days after opening, when sterile conditions are maintained</td>
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</tr>
</tbody>
</table>

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – Canada: Health Canada License – Brazil: registered
Other regions: information available upon request

**PRODUCT ORDER CODES**

<table>
<thead>
<tr>
<th>Code</th>
<th>Description</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>S1P08</td>
<td>Sil-Select Plus – 8 preparations*</td>
<td>100ml</td>
</tr>
<tr>
<td>S1P16</td>
<td>Sil-Select Plus – 16 preparations*</td>
<td>200ml</td>
</tr>
<tr>
<td>S1P20LO</td>
<td>Sil-Select Plus Lower Layer – 1x 20ml</td>
<td>100ml</td>
</tr>
<tr>
<td>S1P20UP</td>
<td>Sil-Select Plus Upper Layer – 1x 20ml</td>
<td>100ml</td>
</tr>
<tr>
<td>S1P50</td>
<td>Sil-Select Plus – 2x 50ml</td>
<td></td>
</tr>
<tr>
<td>S1P100</td>
<td>Sil-Select Plus – 2x 100ml</td>
<td></td>
</tr>
<tr>
<td>S1P100LO</td>
<td>Sil-Select Plus 80% – 1x 100ml</td>
<td></td>
</tr>
<tr>
<td>S1P100UP</td>
<td>Sil-Select Plus 80% – 1x 100ml</td>
<td></td>
</tr>
</tbody>
</table>

*Include bottle of Sil-Select Plus Sperm Washing/Insemination Medium

**PRODUCT INSTRUCTION VIDEO**

An instruction film on the use of Sil-Select Plus is available on YouTube.
Sil-Select STOCK
Sperm preparation media

Sil-Select STOCK is an isotonic gradient for semen preparation with a density of approximately 1.12g/ml. It consists of silane-coated colloidal silica particles suspended in HEPES-buffered EBSS (Earle’s balanced salt solution). Extensive tests during the design phase have shown that the product is non-cytotoxic and non-irritant with no significant allergic potential. Sil-Select STOCK medium is an isotonic solution that is used to prepare density gradients of varying densities (e.g. 40-80% or 45-90% dual gradient).

PRODUCT SPECIFICATIONS
pH (ambient air) 7.20 - 7.90 (release criteria: 7.20 - 7.60)
Osmolality 300 - 330 mOsm/kg
Sterility SAL 10<sup>3</sup>
Density 1.115 - 1.125 g/ml
Sperm Survival Test ≥ 80% motility recovery after 4hr exposure of spermatozoa to the test medium;
≥ 75% motility recovery after 24hr exposure of spermatozoa to the test medium
Water All FertiPro media are manufactured using ultra purified water (Ph Eur)
Ingredients Where applicable Ph Eur or USP grade raw materials are used
In-use stability Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

STORAGE
Store between 2-8°C
Keep away from (sun)light
18 months from date of manufacture

REGULATORY
Europe: CE-marked (Notified Body 0344) – USA: FDA Cleared
Canada: Health Canada License – Brazil: registered
Other regions: information available upon request

PRODUCT ORDER CODES
SIS100 Sil-Select STOCK – 100ml
SIS500 Sil-Select STOCK – 500ml
SIS100G Sil-Select STOCK with gentamicin – 100ml

10% PVP in FertiCult Flushing medium
Viscous medium for use in ICSI procedures

PRODUCT SPECIFICATIONS
pH (ambient air) 7.20 - 7.90 (release criteria: 7.20 - 7.60)
Osmolality 300 - 330 mOsm/kg
Sterility SAL 10<sup>3</sup>
Viscosity > 170cP @ 25°C
Endotoxin < 1.00 EU/ml
Mouse embryo assay* ≥ 80% blastocysts formed after 96h incubation
Water All FertiPro media are manufactured using ultra purified water (Ph Eur)
Ingredients Where applicable Ph Eur or USP grade raw materials are used
In-use stability Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

STORAGE
Store between 2-8°C
Keep away from (sun)light
9 months from date of manufacture

REGULATORY
Europe: CE-marked (Notified Body 0344) – Canada: Health Canada License – Brazil: registered – Other regions: information available upon request

PRODUCT ORDER CODES
PVP0.25 10% PVP in FertiCult Flushing medium (screw cap) – 5x 0.2ml
PVPL 10% PVP in FertiCult Flushing medium – 1x 1ml
FertiCult Aspiration medium

*HEPES buffered cell culture medium for human oocyte pick-up and follicular flushing*

**PRODUCT**

FertiCult Aspiration medium is a ready to use formulation for oocyte pick-up and follicular flushing. FertiCult Aspiration medium contains heparin (pharmaceutical grade) and HEPES to stabilize the pH under air, no CO₂ incubation is required.

**PRODUCT ORDER CODES**

- ASPI020 FertiCult Aspiration medium – 5x 20ml
- ASPI050 FertiCult Aspiration medium – 5x 50ml
- ASPI100 FertiCult Aspiration medium – 5x 100ml

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>pH (ambient air)</th>
<th>Osmolality</th>
<th>Sterility</th>
<th>Endotoxin</th>
<th>Mouse embryo assay</th>
<th>Water</th>
<th>Ingredients</th>
<th>In-use stability</th>
</tr>
</thead>
</table>
| 7.30 - 7.90      | 270 - 290 mOsm/kg | SAL 10⁻⁴ | < 0.25 EU/ml | > 85% blastocysts formed after 96h incubation | All FertiPro media are manufactured using ultra purified water (Ph Eur) | Where applicable Ph Eur or USP grade raw materials are used | Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**

Store between 2-25°C

Keep away from sun/light

18 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – Brazil: registered

Other regions: Information available upon request

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FertiCult Flushing medium

**PRODUCT**

FertiCult Flushing medium contains 80 IU/ml pharmaceutical grade hyaluronidase in FertiCult Flushing medium. The solution is used in the oocyte denudation process. Hyaluronidase digests the hyaluronic acid between the cumulus cells, which makes it easier to remove the cumulus mechanically.

**PRODUCT ORDER CODES**

- HYA001 Hyaluronidase in FertiCult Flushing medium – 5x 1ml
- HYA010 Hyaluronidase in FertiCult Flushing medium – 1x 10ml

**PRODUCT SPECIFICATIONS**

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<td>270 - 290 mOsm/kg</td>
<td>SAL 10⁻⁴</td>
<td>&lt; 0.10 EU/ml</td>
<td>&gt; 80% blastocysts formed after 96h incubation</td>
<td>All FertiPro media are manufactured using ultra purified water (Ph Eur)</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
</tr>
</tbody>
</table>

**STORAGE**

Store between 2-8°C

Keep away from sun/light

12 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – Brazil: registered

Other regions: Information available upon request

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FertiCult Aspiration medium

*HEPES buffered cell culture medium for human oocyte pick-up and follicular flushing*

**PRODUCT**

**PRODUCT ORDER CODES**

- ASPI020 FertiCult Aspiration medium – 5x 20ml
- ASPI050 FertiCult Aspiration medium – 5x 50ml
- ASPI100 FertiCult Aspiration medium – 5x 100ml

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>pH (ambient air)</th>
<th>Osmolality</th>
<th>Sterility</th>
<th>Endotoxin</th>
<th>Mouse embryo assay</th>
<th>Water</th>
<th>Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.30 - 7.90</td>
<td>270 - 290 mOsm/kg</td>
<td>SAL 10⁻⁴</td>
<td>&lt; 0.25 EU/ml</td>
<td>&gt; 80% blastocysts formed after 96h incubation</td>
<td>All FertiPro media are manufactured using ultra purified water (Ph Eur)</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
</tr>
</tbody>
</table>

**STORAGE**

Store between 2-25°C

Keep away from sun/light

18 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – Brazil: registered

Other regions: Information available upon request

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FertiCult Flushing medium

**PRODUCT**

FertiCult Flushing medium contains 80 IU/ml pharmaceutical grade hyaluronidase in FertiCult Flushing medium. The solution is used in the oocyte denudation process. Hyaluronidase digests the hyaluronic acid between the cumulus cells, which makes it easier to remove the cumulus mechanically.

**PRODUCT ORDER CODES**

- HYA001 Hyaluronidase in FertiCult Flushing medium – 5x 1ml
- HYA010 Hyaluronidase in FertiCult Flushing medium – 1x 10ml

**PRODUCT SPECIFICATIONS**

<table>
<thead>
<tr>
<th>pH (ambient air)</th>
<th>Osmolality</th>
<th>Sterility</th>
<th>Endotoxin</th>
<th>Mouse embryo assay</th>
<th>Water</th>
<th>Ingredients</th>
</tr>
</thead>
<tbody>
<tr>
<td>7.30 - 7.90</td>
<td>270 - 290 mOsm/kg</td>
<td>SAL 10⁻⁴</td>
<td>&lt; 0.10 EU/ml</td>
<td>&gt; 80% blastocysts formed after 96h incubation</td>
<td>All FertiPro media are manufactured using ultra purified water (Ph Eur)</td>
<td>Where applicable Ph Eur or USP grade raw materials are used</td>
</tr>
</tbody>
</table>

**STORAGE**

Store between 2-8°C

Keep away from sun/light

12 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – Brazil: registered

Other regions: Information available upon request
**FertiCult IVF medium**

Fertilization medium

**PRODUCT**

FertiCult IVF medium is a bicarbonate buffered cell culture medium for fertilization by IVF or ICSI. The composition of this medium fulfills the needs of gametes in preparation of, and during fertilization. FertiCult IVF medium contains 4g/L human serum albumin (EMA, Ph Eur, USP, FDA approved) and high glucose concentration for optimal support during fertilization.

**PRODUCT SPECIFICATIONS**

- **pH (@ 37°C in 6% CO₂)**: 7.20 - 7.50
- **Osmolality**: 270 - 290 mOsm/kg
- **Sterility**: SAL 10⁻³
- **Endotoxin**: < 0.25 EU/ml
- **Mouse embryo assay**: ≥ 85% blastocysts formed after 96h incubation
- **Water**: All FertiPro media are manufactured using ultra purified water (Ph Eur)
- **Ingredients**: Where applicable Ph Eur or USP grade raw materials are used
- **In-use stability**: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**

- **+°C**
  - Store between 2-25°C
- **+°C**
  - Media with gentamicin: store between 2-8°C
- **Keep away from (sun)light**
- **12 months from date of manufacture**

**REGULATORY**

- **Europe**: CE-marked (Notified Body 0344)
- **Brazil**: registered
- **Other regions**: information available upon request

**PRODUCT ORDER CODES**

<table>
<thead>
<tr>
<th>Product Description</th>
<th>Code</th>
<th>Quantity</th>
</tr>
</thead>
<tbody>
<tr>
<td>FertiCult IVF medium</td>
<td>FECU020</td>
<td>5x 20ml</td>
</tr>
<tr>
<td></td>
<td>FECU050</td>
<td>5x 50ml</td>
</tr>
<tr>
<td></td>
<td>FECU100</td>
<td>3x 100ml</td>
</tr>
<tr>
<td>FertiCult IVF medium with phenol red</td>
<td>FECU020PHR</td>
<td>5x 20ml</td>
</tr>
<tr>
<td></td>
<td>FECU050PHR</td>
<td>5x 50ml</td>
</tr>
<tr>
<td></td>
<td>FECU100PHR</td>
<td>3x 100ml</td>
</tr>
<tr>
<td>FertiCult IVF medium with phenol red and</td>
<td>FECU020PHRG</td>
<td>5x 20ml</td>
</tr>
<tr>
<td>gentamicin</td>
<td>FECU050PHRG</td>
<td>5x 50ml</td>
</tr>
<tr>
<td></td>
<td>FECU100PHRG</td>
<td>3x 100ml</td>
</tr>
</tbody>
</table>
GAIN medium

Cell culture media for use in human ART

GAIN medium is a bicarbonate buffered medium optimized to provide an excellent in vitro environment for human gametes and embryos. GAIN medium can be used for sperm preparation, oocyte incubation and fertilization. It is a single-step medium designed for continuous embryo culture from day 1 to expanded blastocyst stage. The medium can also be used for embryo transfer. Oocyte and embryo culture should be performed in a CO2 incubator.

The medium contains 3.5 g/liter human serum albumin (EMA, Ph Eur, USP, FDA approved), gentamicin, and a low concentration of phenol red.

PRODUCT SPECIFICATIONS

- pH (pH 37°C – 5% CO2): 7.20 - 7.45
- Osmolality: 270 - 290 mOsm/kg
- Sterility: SAL 10-
- Endotoxin: < 0.05EU/ml
- Mouse embryo assay*: > 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

STORAGE

- Store between 2-8°C
- Keep away from (sun)light
- 12 months from date of manufacture

REGULATORY

- Europe: CE-marked – Brazil: registered – Other regions: information available upon request

PRODUCT ORDER CODES

- GAIN010: GAIN medium – 1x 10ml
- GAIN020: GAIN medium – 5x 20ml

* single step culture of mouse zygotes to blastocyst stage
**PRODUCT**

FertiCult Mineral Oil is pre-washed, pharmaceutica grade, light paraffin oil. The oil is washed twice with ultra purified water (Ph Eur) and filtered over a 0.2 µm filter for sterilisation. FertiCult Mineral Oil is used as a culture overlay. The product functions as a temperature/gas exchange buffer, and avoids evaporation culture medium.

**PRODUCT SPECIFICATIONS**

- **Sterility**: SAL 10 ^+ 
- **Density**: 0.83 ± 0.06 g/ml
- **Viscosity**: < 30cP @ 30°C
- **Endotoxin**: < 0.1 EU/ml
- **Peroxide value**: < 0.1 mEq/kg
- Mouse embryo assay:* ≥ 80% blastocysts formed after 120h incubation with FertiCult Mineral Oil
- **Water**: All FertiPro media are manufactured using ultra purified water (Ph Eur)
- **Ingredients**: Where applicable Ph Eur or USP grade raw materials are used
- **In-use stability**: Can be used safely up to 28 days after opening, when sterile conditions are maintained and the products are stored at room temperature.

**STORAGE**

- +4°C
- Store between 15-25°C
- 18 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – USA: US FDA Cleared
Brazil: registered – Other regions: information available upon request

**PRODUCT ORDER CODES**

- MINOIL050 FertiCult Mineral Oil – 1x 50ml
- MINOIL100 FertiCult Mineral Oil – 1x 100ml
- MINOIL500 FertiCult Mineral Oil – 1x 500ml
- MINOIL050P FertiCult Mineral Oil – 1x 50ml in PETG bottle
- MINOIL100P FertiCult Mineral Oil – 1x 100ml in PETG bottle
- MINOIL500P FertiCult Mineral Oil – 1x 500ml in PETG bottle

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**PRODUCT**

SpermFreeze Medium for freezing human spermatozoa

**PRODUCT SPECIFICATIONS**

- **pH (ambient air)**: 7.20 - 7.90 (release criteria: 7.20 - 7.60)
- **Sterility**: SAL 10 ^+ 
- **Endotoxin**: < 0.25 EU/ml
- **Sperm survival test**: ≥ 80% motility recovery after 4h exposure
- **Water**: All FertiPro media are manufactured using ultra purified water (Ph Eur)
- **Ingredients**: Where applicable Ph Eur or USP grade raw materials are used
- **In-use stability**: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**

- +4°C
- Store between 2-8°C
- 18 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – USA: US FDA Cleared
Brazil: registered – Other regions: information available upon request

**PRODUCT ORDER CODES**

- SPT05 SpermFreeze – 25x 5ml
- SPF SpermFreeze – 5x 20ml

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**PRODUCT**

SpermFreeze is a single step freezing medium for use with human sperm cells. The medium is clear (does not contain any milk, egg yolk,...) and ready to use.

**PRODUCT SPECIFICATIONS**

- **Sterility**: SAL 10 ^+ 
- **Density**: 0.83 ± 0.06 g/ml
- **Viscosity**: > 30cP @ 30°C
- **Endotoxin**: < 0.1 EU/ml
- **Peroxide value**: < 0.1 mEq/kg
- **Mouse embryo assay**: ≥ 80% blastocysts formed after 120h incubation with FertiCult Mineral Oil
- **Water**: FertiCult Mineral Oil is washed with ultra purified water (Ph Eur)
- **Ingredients**: Where applicable Ph Eur or USP grade raw materials are used
- **In-use stability**: Can be used safely up to 28 days after opening, when sterile conditions are maintained and the products are stored at room temperature.

**STORAGE**

- +4°C
- Store between 15-25°C
- 18 months from date of manufacture

**REGULATORY**

Europe: CE-marked (Notified Body 0344) – USA: US FDA Cleared
Brazil: registered – Other regions: information available upon request

**PRODUCT ORDER CODES**

- SPF05 SpermFreeze – 25x 5ml
- SPF SpermFreeze – 5x 20ml
**SpermFreeze SSP**
Medium for freezing human spermatozoa

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.20 - 7.90 (release criteria: 7.20 - 7.60)
- Sterility: SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Sterility SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Sperm survival test: ≥ 80% motility recovery after 4h exposure
- Water: All FertiPro media are manufactured using ultra-purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**
- Store between 2-8°C
- Keep away from (sun)light
- 18 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODE**
- SSP001 SpermFreeze SSP – 5x 1ml

**STORAGE**
- Store between 2-8°C
- Keep away from (sun)light
- 12 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODES**
- PVC_KIT FertiVit Cooling – 4 procedures
- FYW_KIT FertiVit Warming – 4 procedures

**FertiVit Cooling**
**FertiVit Warming**
Kits for vitrification and warming of human oocytes and embryos up till blastocyst stage

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.20 - 7.50 (release criteria: 7.20 - 7.40)
- Sterility: SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Mouse embryo assay*: ≥ 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra-purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**
- Store between 2-8°C
- Keep away from (sun)light
- 12 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODES**
- PVC_KIT FertiVit Cooling – 4 procedures
- FYW_KIT FertiVit Warming – 4 procedures

**PRODUCT ORDER CODE**
- SSP001 SpermFreeze SSP – 5x 1ml

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.20 - 7.90 (release criteria: 7.20 - 7.60)
- Sterility: SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Mouse embryo assay*: ≥ 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra-purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
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- Store between 2-8°C
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- 18 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODE**
- SSP001 SpermFreeze SSP – 5x 1ml

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.20 - 7.50 (release criteria: 7.20 - 7.40)
- Sterility: SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Mouse embryo assay*: ≥ 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra-purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

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- Store between 2-8°C
- Keep away from (sun)light
- 18 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODE**
- SSP001 SpermFreeze SSP – 5x 1ml

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.20 - 7.50 (release criteria: 7.20 - 7.40)
- Sterility: SAL 10^6
- Endotoxin: < 0.25 EU/ml
- Mouse embryo assay*: ≥ 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra-purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**
- Store between 2-8°C
- Keep away from (sun)light
- 18 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344) – Brazil: registered
- Other regions: information available upon request

**PRODUCT ORDER CODE**
- SSP001 SpermFreeze SSP – 5x 1ml
VitriFreeze ES / VitriThaw ES kits are sets of cell culture media designed for the vitrification and warming of 2PN up till blastocyst stage, human embryos. The media are optimized to work with both aseptic (closed) and non-aseptic (open) vitrification devices (separate protocols). The vitrification kit consists of 4 media and the warming kit contains 5 media.

STORAGE
Store between 2-8°C

REGULATORY
Europe: CE-marked (Notified Body 0344) – Brazil: registered
Other regions: information available upon request

PRODUCT ORDER CODES
VF_KIT1_ES VitriFreeze ES – 4 procedures
VT_KIT1_ES VitriThaw ES – 4 procedures

VitriFreeze ES / VitriThaw ES kits are sets of cell culture media designed for the vitrification and warming of human blastocysts. The media are suitable for use with non-aseptic (open) vitrification devices.

The vitrification kit consists of 3 media and the warming kit contains 4 media.

STORAGE
Store between 2-8°C

REGULATORY
Europe: CE-marked (Notified Body 0344) – USA: US FDA Cleared
Other regions: information available upon request

PRODUCT ORDER CODES
VF_KIT1 ES VitriFreeze – 4 procedures
VT_KIT1 ES VitriThaw – 4 procedures
EmbryoFreeze and EmbryoThaw media are PBS/propanediol based cell culture media for (slow) freezing and thawing of human embryos. These media can be used with 2PN up till 4-cell stage human embryos.

The kit has been designed with a 1-step freezing and 3-step thawing protocol.

**PRODUCT ORDER CODES**
- EMF30_P EmbryoFreeze/Thaw – 30 procedures
- EMF40_T_P EmbryoThaw – 40 procedures
- EMF120_F_P EmbryoFreeze – 12 vials

**PRODUCT SPECIFICATIONS**
- pH (ambient air): 7.30 - 7.40
- Sterility: SAL 10³
- Endotoxin: < 0.25 EU/ml
- Mouse embryo assay*: > 80% blastocysts formed after 96h incubation
- Water: All FertiPro media are manufactured using ultra purified water (Ph Eur)
- Ingredients: Where applicable Ph Eur or USP grade raw materials are used
- In-use stability: Can be used safely up to 7 days after opening, when sterile conditions are maintained and the products are stored at 2-8°C

**STORAGE**
- Store between 2-8°C
- Keep away from (sun)light
- 18 months from date of manufacture

**REGULATORY**
- Europe: CE-marked (Notified Body 0344)
- Other regions: information available upon request

**Notes**
* exposure to all media in sequence at zygote stage (1-cell MEA)
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Belgium

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fax +32 (0)50 79 17 99
info@fertipro.com
www.fertipro.com