Biotechnologies for pig reproduction

www.imv-technologies.com
SEMEN COLLECTION
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- Collectis

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CRYOGENIC REPRODUCTION
- Freezing porcine germplasm semen/oocytes/embryos
Our strategic alliance with the world's leading research centres, vet schools / A.I. professionals and our cogent partnership with an ever growing customer base enable focused practitioner research. We constantly strive to listen to our customer needs, ever changing in our competitive, technically driven industry. Our significant research and development budget identifies and focuses upon reproductive solutions that, when implemented, will make a financial improvement for you – ‘our customer’ – by increasing fertility % / fecundity – litter size / improving bio-security and maximising bacteriological control.

We offer a portfolio of product lines that ensure the efficient collection / analysis / processing / validation / storage / traceability and dissemination of porcine germplasm – be it semen / oocytes / embryos. We work in concert with swine breeding companies to ensure the economic delivery of genetic development through artificial insemination.

Please peruse this catalog to see if IMV Technologies have answered your needs, if not please contact one of our technical sales to ensure that we do satisfy your needs going forward.

Several new exciting product lines have been added to the catalogue this year and we trust that they will be of interest – indeed, that they will be able to assist you and your team in achieving your reproductive strategy more efficiently.

If you wish to contact us at anytime to discuss how IMV Technologies can assist your reproductive project further please do so.

Thank you for taking the time to read our catalog.
SEMEN COLLECTION

- Reinforced galvanized dummy sow without leather
  - Non skid rubber mat 150x100 cm

- Vinyl collection glove powder free (by 2x100) 1
  - Sensitive red gloves (by 525x100)
  - Filters ø 230 mm for boar semen filtration (by 200) 2
  - White thermos flask for boar semen collection 3
- 250 ml pyrex beaker (by 2)
- 400 ml pyrex high shape beaker (by 2) 5
- 400 ml graduated plastic beaker (by 460) 4
- Lid for 400 ml plastic beaker (by 460)
- 3 liter graduated plastic bucket
- Dilbag 3 liter roll (by 100)
- Incubator 6
COLLECTIS

Automatic boar collection system 021039

Better productivity: twice efficient as manual collection.

Better semen quality with an insulated vagina for an optimal hygiene of collection.

Safer working conditions: no bending, no kneeling, less risks of injuries.

Easier management: lower turnover rate in your production staff with the machine. Collectis will never quit you, ask for a raise, be late at work or need vacation!

Collectis fits all type of existing barns.

Collectis includes:

- 1 regulation unit with automate and software
- 6 artificial vaginas
- Specific study of Collectis implementation by our technician
- Installation by our technician: 1 day
- Training of your operators by our technician: 2 days

This specifications are for 100 boars (= one Collectis machine)

Options

- Reinforced galvanized dummy sow without leather 005655
- Adjustable red coated dummy sow [2 needed] 021043
Automatic evaluation

- **CEROS version 12 semen analyser**
  with microscope + vdu + minitherm + motility

  If you require the objectivity and accuracy of automated analysis, but at a more affordable price, then CEROS is your best choice.

  - External microscope allows computer to be stored under the lab countertop to save space
  - Familiar, standard microscope illumination
  - Portable MiniTherm Stage Warmer maintains samples at 37°C
  - X-Y stage movement increases number of fields available for motility and morphology

New products include faster A.I.

- **GTB - Golden Tip Bag** - our new exciting packaging system; which improves insemination efficiency and allows physiological self-insemination by the sow
- **COLLECTIS** - Automated boar collection system designed to allow a single technician to “manage” multiple collection pens simultaneously while eliminating the need for technicians to collect boars manually
- **GEDIS** - complete insemination unit with the semen and catheter “All-In-One”. Semen is packaged along the length of the catheter shaft in a collapsible membrane
- **ULTIMATE** - our sophisticated CASA equipment (Computer Assisted Semen Analyser) produced and developed exclusively in association with Hamilton Thorne Biosciences
- **ACCUREAD** - small and portable sperm cell density meter which displays results in direct concentration or absorbance
- **SMILE** - a complete solution for lab semen production management including total traceability and powerful database
- **PRIMXcell/NUTRIXcell/TRIXcell/TRIXcell+/SAFEXcell** - the new IMV range of extenders and biological media with built-in pathogenic control mechanisms
- **CAL-XCell** - a system of swine management software designed for boar studs
ULTIMATE semen analyser 018426

If high-end performance using the industry standard is key for your lab, then the ULTIMATE is the best option.

- All optics components built into one integrated workstation
- Strobe illumination: provides sharpest imaging
- Automated, built-in, heated stage for accurate temperature control and sample positioning
- Preselection of fields for faster analysis
- Optional IDENT fluorescence capability

Electronic scale 018427
Bar code scanner 018428
Bar code reader 018429
Sperm heating probe 018430

Accessories for CEROS and ULTIMATE

- Leja 4 chambers slides [by 16x2S] (1) 020110
- 0.5 to 5 ml micropipette MP5000 (2) 005529
- Clear tips for micropipette MP5000 (by 2x100) (3) 005206
- Filters for MP5000 micropipette (by 100) (4) 020100
- Adjustable micropipette MP200 from 20 to 200 µl (5) 005531
- Adjustable micropipette MP20 from 2 to 20 µl (6) 005530
- Clear tips for micropipette MP200 and MP20 (by 1,000) (7) 005208
Photometric examination

- **Accucell: Boar photometer with dilutor and printer** 020214

- **Accucell: Boar Semen photometer** (1) 014434
  A tool developed for an accurate concentration measurement of all types of ejaculate.
  - Direct reading of concentration; absorbance or concentration calculation. Unit also calculates the volume of media to be added and potential number of doses.
  - Concentration: simultaneous display of the concentration and absorbance after a user defined delay.
  - Absorbance: real time display.

- **Accuread: Boar Semen photometer** (2) 019951
  Small and portable sperm cell density meter, Accuread operates on AC and battery. Direct reading of concentration through long life LED source combined with fibre optic (no filter), it also displays results in direct concentration or absorbance. Delivered with RS 232 plug.
  - 0.5 to 5 ml micropipette MP5000 005529
  - Clear tips for micropipette MP5000 (by 2x100) 005206
  - Filters for MP5000 micropipette (by 100) 020100
  - Adjustable micropipette MP200 from 20 to 200 µl 005531
  - Clear tips for micropipette MP200 and MP20 (by 1,000) 005208
  - Rack for 7 micropipettes (3) 005555

Photometric options

- **Swine dilutor** (4) 006735
- **Thin tube for semen sampling** (by 1,000) 006452
- **Printer with wire for photometers** 014441
- **Paper roll for photometers** (by 10) 005378

Consumables for photometers

- **Cuvette for photometers** (by 5x120) (5) 005155
- **50 ml flask of NaCl solution 9/1000** (by 10) 015988
- **250 ml flask of NaCl solution 9/1000** (by 10) 002259
Microscope binocular objectives 10x - 20x - 40x

- Binocular microscope YS100 with heated stage and histology  016745
- Binocular microscope YS100 with heated stage without histology  016744

Microscope trinocular objectives 10x - 20x - 40x

- Trinocular microscope E50i with heated stage and histology  019172
- Objective 100X achromat plan for microscope E50i  019171
- 36 cm monitor with color camera  016513
- Slides 76x26 mm (by 10x50)  005795
- Cover slides 18x18 mm (by 1,000)  006557
- Mini pipette for semen sampling (by 10x100)  007283

Manual evaluation

- Manual counter  005671
- Thoma cell, double squaring  005786
- Slides 22x22 mm (by 2x10)  020105
Over 15 years ago, IMV Technologies originally conceived the concept of developing a user-focused lab management software in association with American and French cattle AI stations. Since then, many improvements have been integrated to enable semen analysis, semen processing, traceability and inventory following 15 years of customer comment, adoption.

**COLLECTION TRACEABILITY**

- Electronic identification of the boar with wireless reader (gun). [1]
- Multiple database entry
  - Collector
  - Handler
  - Three fields to record collection events of interest. [2]
- Transfer of database info to main computer.
- Barcode label production used to identify the semen collection throughout the process. [3]
- Sample data sent to laboratory regardless of distance.

**LABORATORY**

- Linked to various equipment by an RS 232 connection, the data is automatically stored in the database. The database is an accurate tool used by the lab staff and management to make knowledgeable decisions. [1]
- After semen evaluation, the quality assessment may be displayed on a large screen in the collection room. [4]
- Each collection may be assigned its own unique batch code for further traceability.
- The sire collection decisions can be pre-determined by management based on the powerful database available in SMILE.

**Health Records Traceability**

Our reader (gun) can be used to record and monitor the blood sampling or various veterinarian actions on the animal.
of innovative, technical advances and a powerful database. The system is also being further improved to enable compatibility and integration with the Ultimate – Computer Assisted Semen Analyser. Please refer to the picture flow chart below to see by yourself how our system may assist you. Please contact a member of our technical sales team should you need any additional information on SMILE – thank you.

**SEMEN PACKAGING TRACEABILITY**
- Integrated with the MRSSP and the IS4, SMILE enables printing and barcoding on both GTB / Goldenbag or straws for customers freezing pig semen. [2]
- Human error is minimized through automatic data capture. [3]

**FREEZING & STORAGE TRACEABILITY**
- The bar-coded straws can now be loaded into the Digitcool for freezing according to pre-set protocols. The Digitcool offers a “state of the art” method for straw freezing. The batch code with the freezing curve, chamber curve, and inside straw curve are recorded in the database.

**Cal-XCell**
- A system of swine management software designed for small & mid-size boar studs
- Boar management in-situ (in production)
- Semen production management
- Single sire or pooling process
- Pool traceability
- Multiple reports available
- Data exportable to 5 different formats (Word, Excel, HTML, PDF, XML)
- Reports can be e-mailed automatically
- Peripheral connections: scale and Accuread
- Touchscreen compatible
EU COCKTAIL

This combination of antibiotics can be added to any extender in compliance with the 90/429/EEC regulation concerning the exchange of porcine semen between European countries. It contains Penicillin, Streptomycin, Lincomycin and Spectinomycin (effective against Mycoplasma, Leptospira and other common bacteria - Enterrococcus, Serratia, Pseudomonas etc.).

Presentation: powder QSF 5 liter, to be extended with purified water

- Box of 10 bottles QSF 5 liters 020266
- 1 liter sterile water (by 10) 019757

Mid-term medium - PRIMXcell

- PRIMXcell 50 g QSF 1 liter (by 100) 021055
- PRIMXcell 250 g QSF 5 liters (by 40) 021056
- PRIMXcell 500 g QSF 10 liters (by 20) 021057
- PRIMXcell 2.5 kg QSF 50 liters (by 4) 021059

PRIMXcell contains an antibacteria formula. Easy to dissolve

Long-term medium - NUTRIXcell

- NUTRIXcell 50 g QSF 1 liter (by 100) 021219
- NUTRIXcell 250 g QSF 5 liters (by 40) 021220
- NUTRIXcell 500 g QSF 10 liters (by 20) 021221
- NUTRIXcell 2.5 kg QSF 50 liters (by 4) 021222

NUTRIXcell is a complex formula which guarantees a long and safe preservation of sperm cells. The main characteristic of NUTRIXcell is its unique patented natural molecule improving sugar cell metabolism and protection. NUTRIXcell increases cell motility by 20%.

There is a direct correlation between motility and the capacity of fertilization of the sperm cell. Blood protein free.
Super long-term medium - TRIXcell

- TRIXcell QSF 1 liter (by 10) 019426
- TRIXcell QSF 5 liters 019427
- TRIXcell QSF 10 liters 019428
- TRIXcell QSF 20 liters 019429
- TRIXcell QSF 100 liters 019430

Especially formulated for a long-term preservation, its different components have an anti-oxydative action as well as a protective effect on membranes allowing long lasting porcine sperm preservation also providing maximum fertility and prolificity. TRIXcell’s antibiotic cocktail has been specifically formulated to reduce bacteriological proliferation. These features have been validated through many years over all continents.

Super long-term medium - TRIXcell+

- TRIXcell+ QSF 1 liter (by 10) 021208
- TRIXcell+ QSF 5 liters 021209
- TRIXcell+ QSF 10 liters 021210
- TRIXcell+ QSF 50 liters 021367
- TRIXcell+ QSF 100 liters 021211

Starting from the TRIXcell formula, the IMV R&D team has taken a new step forward in creating TRIXcell+ which contains highly purified BSA substitute protein complex. Blood protein free.

Super long-term liquid medium - SAFEXcell

- SAFEXcell 100 ml QSF 1 liter (by 10) 021212
- SAFEXcell 500 ml QSF 5 liters (by 10) 021213
- SAFEXcell 1 000 ml QSF 10 liters (by 10) 021214

SAFEXcell is a super long-term filtrated and sterile concentrated liquid extender. -easy to dissolve, SAFEXcell can be used immediately after dilution. Contains highly purified BSA substitute protein complex and antibiotics. Blood protein free.
FRESH SEMEN PACKAGING

The GTB concept

Efficient, Ergonomic, Economic, Enhanced Fertility, Enhanced Fecundity

The GTB is the latest evolutionary modification to IMV’s award winning system of artificial insemination.

- The GTB is easier to fill: a total of 1,000 units will be filled per hour routinely.
- The GTB is easier to seal: post-filling, a unique 100% hermetic seal, this seal enables a high integrity, bio-secure seal to product valuable genetic material.
- Compact, the GTB is easier to store when filled.
- The GTB is a practical, easy to use tipped insemination system. Can be used in conjunction with the Classic Goldenpig / Goldengilt and Deep Goldenpig catheter range.
- The GTB has been designed to incorporate ‘softer’ higher grade plastic which responds in complete harmony with the rhythmic contractions of the sow’s / gilt’s reproductive system. Result fast, faultless AI.
- The GTB range of filling and sealing machines incorporate innovative, streamlined functionality – revolutionizing the look and feel of automated semen packaging.

Manual filling machine 1 by 1 (GTB 200)

GTB 200: manual filling and sealing machine 1 x 1

Simple and reasonably priced, the manual machine fills and seals GTB. The bags move one by one in front of the filling station. The GTB 200 operates the filling function using a disposable needle and tube siphoning by gravity from the extended semen container. The semen flow is controlled by a manual flow clamp. As one bag is filled, the one in front is sealed. This efficient system allows the operator to package the semen doses with a single work station, reducing the amount of semen handling. The unit is easily cleaned. The output of the GTB 200 is 200 Golden Tip Bags per hour.
Automatic packaging machines

**GTB 1000: filling, sealing and labelling machine**

The GTB 1000 has revolutionized the perception of automatic semen packaging machines within boar studs. IMV Technologies have incorporated design features and modifications recommended by our customers. These changes have changed the way the range of automatic GTB packaging machines looks, operates and continues to deliver high quality / high integrity semen. The GTB 1000 is compact setting the new standard in computer controlled filling systems.

The filling accuracy is significantly improved compared to all other automatic packaging machines with an improved volume tolerance of +/- 1g. The sophisticated and sleek design is simple to use and user friendly.

Several built-in safety mechanisms will automatically stop the system in the event of a cycle failure. The GTB 1000 will fill / seal and label in excess of 1,000 Golden Tip Bags per hour. One person is capable of not only running the machine but also of performing additional tasks while the GTB are being packaged.

Runs with 6-bar compressed air - delivered without compressor

**GTB 500: filling and sealing machine**

Automatic filling and sealing machine for the GTB, this equipment incorporates automatic GTB movement with a peristaltic pump – validation has shown significantly reduced variation in the resultant inseminate volume compared with the GTB 200 manual fill / seal.

The GTB 500 will allow 500 Golden Tip Bags to be comfortably filled per hour, incorporating new welding apparatus which ensures perfect hermetic seal of the GTB.

Runs with 6-bar compressed air - delivered without compressor

**Consumables**

- GTB for GTB 1000 and GTB 500 [by 2x750] 020872
- GTB for GTB 200 [by 3x500] 021595
- Our Goldenbag remains available for other filling machines [by 5x1,000] 017133
**LABORATORY EQUIPMENT**

### Manual media preparation
- Heated magnetic stirrer up to 5 liters (1) 005298
- Bar magnet up to 5 liters (by 2) 005299

### Distillation
- Glass distiller 7 liters/hour 005739

### Sterilizers and incubators
- 53 l stainless steel incubator 30-70°C 005758
- 108 l stainless steel incubator 30-70°C 005734
- 256 l stainless steel incubator 30-70°C 005738
- 53 l stainless steel sterilizer 220°C 005735
- 108 l stainless steel sterilizer 220°C (2) 005732
- 256 l stainless steel sterilizer 220°C 005736

### Balance
- 1,510 g scale precision 0.1g with RS232 connexion (3) 005311

### Water-bath
- 30 l water bath with stand for baby flasks and tubes (4) 007227
- Pyrex baby flasks with caps (by 24) 020177

### Glassware
- 5 litre pyrex beaker low shape 005913
- 5 litre pyrex Erlenmeyer narrow neck 005870
- 2 litre pyrex Erlenmeyer large opening (5) 005916
- 1 litre graduated glass test tube 005923
- 500 ml graduated pyrex test tube 005871
GEDIS® Packaging Systems

- **3 chamber machine (Serie 900) [1]**
  - Capacity: 250 / hour
  - Manual placement of the Gedis® onto the machine
  - Peristaltic pumps fill the Gedis®
  - 70 to 85 Ml per dose
  - Very reliable

- **2 chamber machines (Serie 400) [2]**
  - Capacity: 200 / hour
  - Manual insertion of the Gedis® onto the machine
  - Peristaltic pumps fill the Gedis®
  - 70 to 85 Ml per dose
  - Reliable and cost effective

- **Manual System (Serie 500): fills Gedis® 1 x 1 [3]**
  - Capacity: 100 / hour
  - Crank operated
  - 80 to 85 Ml per dose

GEDIS

- **Unique all-in-one AI concept**
  - Universal, fast and convenient. Improve your staff efficiency and motivation
  - No more time wasted holding the bottle or tube for minutes on end, while other sows are waiting to be bred. This innovative concept produces significant time savings during AI (up to 75%)
  - The GEDIS® “auto-insemination” concept allows the technician to breed more females in a shorter amount of time while improving the quality of breeding through better heat detection and stimulation of sows.
Classic Goldenpig

The Classic Goldenpig is a newly developed Goldenpig which has a 45 degree cut end. This catheter ensures a perfect fit with our new GTB bag.

- Classic Goldenpig (by 20x25) [1] 019618
- Classic Goldenpig (by 500x1) [1] 020050
- Goldenpig (by 5x100) 006956
- Goldenpig (by 20x25) 006957
- Goldenpig (by 500x1) 006954
- Goldenbag & Goldenpig connector (by 500x1) [2] 006949
- Universal flexible pig connector (by 20x25) [3] 005665

Goldengilt

- Goldengilt (by 500x1) [6] 016625
- Goldengilt (by 20x25) 016624
**Deep Goldenpig Concept III**

The Deep Goldenpig was created after significant anatomical study of sow / gilt reproductive physiology.

The Deep Goldenpig was designed mainly to enable good fertility / fecundity at reduced sperm cell concentration in the inseminate. The concentration of sperm cell per dose can be significantly reduced as the inseminate is placed deeper into the reproductive tract.

The Deep Goldenpig is a technically unique, modified insemination catheter that allows trans-cervical / intra-uterine AI. A surgically designed flexi-tube is inserted through the conventional Goldenpig which enables the user to circumnavigate through the females cervix. The insert is tipped with a specially designed / engineered safety head which removes the risk of cervix / tract damage. Semen can then be deposited trans-cervically into the body of the uterus or within the uterine horns.

The Deep Goldenpig accomodates the full range of IMV semen packaging systems: the Goldenbag and the new GTB bag.

- Deep Goldenpig Concept III (by 500x1) 016311
- Sterile lubricant 5 oz (by 5) (1) 019665
- B-GEL 250 g (by 6) (2) 016235

**Treatment pre- and post-farrowing**

- 90 ml straight flask with clear plug (by 500) (3) 005398
- Uterine treatment catheter 440 mm (by 10x25) (4) 007294
- Vaginal treatment catheter 292 mm (by 10x25) (5) 006360
- Goldenpig (by 500x1) (6) 006954
- Sensitive red gloves (by 525x100) 021096
- Pair of disposable boot covers (by 500) 021099
- Disposable lab-coat (by 17x20) (7) 021096
**SEMEN FREEZING**

### Automatic freezing

- **Micro-Digitcool for 6 racks** (1) 007261
- Freezing rack for 40 straws 0.5 ml 007119
- Distribution block for 40 straws 0.5 ml (2) 007093
- 60 l tank with flexible + casters + gauge for Mini- & Micro-Digitcool 020086
- 120 l tank with flexible + casters + gauge (3) 007223
- 200 l tank with flexible + casters + gauge (4) 007222

Computer to be supplied locally by customer

- Software win 3t 015397
- Wire rs232 for pc connection 007186
- Short forceps length 23 cm (5) 005524
- Long forceps length 70 cm (6) 005523

### Accessories for manual freezing

- Straw basket - small (1) 007137
- Straw basket - large 007142
- Pit basket (2) 007126
- Pit canister 2 levels (3) 007133
- Mini-Digitcool for 24 racks (7) 007263
- Freezing rack for 58 straws 0.5 ml (8) 007118
- Distribution block for 58 straws 0.5 ml 007092
- 60 l tank with flexible + casters + gauge for Mini- & Micro-Digitcool 020086
- 120 l tank with flexible + casters + gauge (3) 007223
- 200 l tank with flexible + casters + gauge (4) 007222

- Funnel (4) 007125
- Divider for funnel 007124
- Stand for 65 mm goblet (5) 007127
- Work basket 3 places for 65 mm goblets (6) 007136
Filling and sealing machine MRS1 dual 1x1

- **0.25 and 0.5 ml straw MRS1 dual** (1) 020052
  - Single straw filling and sealing machine
  - Speed: 3,600 straws per hour
  - Works either at +4°C or at room temperature

Cold cabinet

- Cold handling cabinet 4°C [Length 2 m, width 1 m] adjustable height for MRS1 dual (2) 007082
- Tropical cold handling cabinet 4°C [Length 2 m, width 1 m] adjustable height for MRS1 dual 007085

Jet Printer with Straw Distributor 019575

- The Linx jet printer, G10 distributor, pilot logic controller, and computer provide a complete solution to your straw printing with exceptional quality. (3)
- A ten digit bar-code (19 mm long), alpha and/or numeric characters, and logos can be chosen for the semen identification.
- The complete system is user friendly, easy to clean and requires minimal maintenance.
  - Speed: 18,000 straws per hour

- Windows jet printer software 015647

Computer to be supplied locally by customer (except USA)

Other freezing solutions exist according to your specific needs. Please contact us.
**STRAWS**

<table>
<thead>
<tr>
<th>COLOR</th>
<th>QUANTITY</th>
<th>RÉFÉRENCE</th>
</tr>
</thead>
<tbody>
<tr>
<td>0.5 ml</td>
<td>clear</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>red</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>green</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>purple</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>yellow</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>salmon</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>putty coloured</td>
<td>(by 2,000)</td>
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<tr>
<td>0.5 ml</td>
<td>pistachio</td>
<td>(by 2,000)</td>
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<tr>
<td>0.5 ml</td>
<td>pink</td>
<td>(by 2,000)</td>
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<tr>
<td>0.5 ml</td>
<td>pastel red</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>pastel green</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>pastel blue</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>pastel grey</td>
<td>(by 2,000)</td>
</tr>
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<td>0.5 ml</td>
<td>pastel yellow</td>
<td>(by 2,000)</td>
</tr>
<tr>
<td>0.5 ml</td>
<td>pastel orange</td>
<td>(by 2,000)</td>
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* These indicative values can fluctuate depending on the use of the Automatic Counting Machine

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**Goblets**

<table>
<thead>
<tr>
<th>Goblet ø 35 mm</th>
<th>Goblet ø 65 mm</th>
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<tbody>
<tr>
<td>0.5 ml Straw capacity*</td>
<td>110</td>
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<tr>
<td>0.25 ml Straw capacity*</td>
<td>220</td>
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<tr>
<td>WHITE</td>
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<td>YELLOW</td>
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<td>PISTACHIO</td>
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<tr>
<td>ORANGE</td>
<td>-</td>
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</table>

**Visotubes**

<table>
<thead>
<tr>
<th>Polygonal visotube</th>
<th>Hexagonal visotube</th>
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<tbody>
<tr>
<td>0.5 ml Straw capacity*</td>
<td>15</td>
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<td>PISTACHIO</td>
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<td>ORANGE</td>
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Frozen semen

GyroTainer

GyroTainer is a unique packaging system specially designed to ship cryogenically preserved biological samples. Its single use system allows the utmost sanitary environment for the shipped samples. GyroTainer also fulfills the additional function of short-term (3 days) cryogenic containment of blood, blood-plasma, biological tissue, biopsy and necrotic organ samples. This tool is of significant interest to the veterinary and bio-medical field.

- Capacity: 2.4 l liquid nitrogen.
- Loaded weight: 4.5 kg.
- Autonomy: 4 days.
- Contains either 200 x 0.25 ml straws or 100 x 0.50 ml straws.

GyroTainer assembled 019876
GyroTainer kit [by 6] 019687

Conventional fresh semen storage

- Regulated 20 liter +1 to 55°C "Cool & warm box" [1] 016660
- 38 liter climate box [2] 007268
- Temperature recorder - 50 to 300°C + probe + cable + software 006517
**SEMEN THAWING**

- **Thawing kit**
  - 018390

- **12 V power supply for regulated box and thawing kit**
  - 003271

- **7 liter stainless steel water bath with cover**
  - 005731

- **20 tubes rack diameter 20 mm**
  - 005940

- **Stainless steel scissors 13 cm**
  - 005926

- **Round sterile bottom tubes 10 ml with cap (by 250)**
  - 020111

- **Straw cutter**
  - 005233

**WORLD LEADER IN REPRODUCTION BIOTECHNOLOGIES**
Freezing porcine germplasm semen/oocytes/embryos

To reflect technological advancement and in order to show you what is available for use from IMV Technologies today, we have included a portfolio of equipment / media / storage and packaging systems. These technologies will enable you to potentially increase your product offering and investigate the utilisation of cryogenic or frozen gamete transfer to new higher margin markets. You may simply want to store quality gametes for a longer, protracted period or for large integrators ensure that you have a contingency plan should your boar stud centres undergo a disease / bio-security threat.

The transfer of germplasm through bio-secure, high integrity vitrification straws and the bio-protection of the genetic material through high tech media could assist your reproductive or genetic project significantly.

Contact us if you wish to:

- ask any further questions about the concepts / products or stratagem available
- store high index / specific genomic sires / dams (oocytes) / zygotes (embryos) under bio-secure, cryogenic conditions indefinitely
- freeze gametes concurrently with blood plasma at collection to enable a biological / cytological and virulogical reference of the donor animal long after the donor is deceased
- maintain commercially acceptable reproductive productivity at farm level following dissemination of gametes to markets closed to fresh gamete import
- link strategic genetic nuclei that are geographically isolated for health and bio-security reasons, this technology will significantly accelerate genetic improvement and reduce the selection and multiplication overhead

Visit our website to further investigate or just call a member of our technical sales team.
Improving communication

IMV Technologies just keeps on evolving in this moving world. A year ago, we began a complete review of our global image and investigated the perception of our business by you, our valued customers.

We improved our product portfolio and revamped our catalog and website.

The website continues to be a success and you are responding positively to the content posted.

We also started an association with ThePigSite.com and collaborate actively with both websites to improve technical transfer for swine reproduction.

This catalog contains new product innovations and information on our Golden Tipped Bag (GTB) range.