



# Media for Assisted Reproductive Technology

SIMPLER PROCESSES, LESS STRESS, BETTER RESULTS

# Give Them the Best Start

Achieving increased pregnancy rates begins with the best start possible. Since 1986, FUJIFILM Irvine Scientific has delivered complete Assisted Reproductive Technology (ART) workflow solutions and media of the highest quality, consistency, and reliability in the industry to help clinics achieve this goal. Together with our deeply collaborative support, we dedicate our resources and expertise to help clinicians successfully fulfill their patients' dreams of having a family.

FUJIFILM Irvine Scientific continually strives to develop products suited for the nuanced needs of the modern IVF laboratory that result in high oocyte and embryo survival rates. Our effective, flexible, and economical products are designed to help minimize stress and improve results by providing a consistent environment throughout the IVF process.



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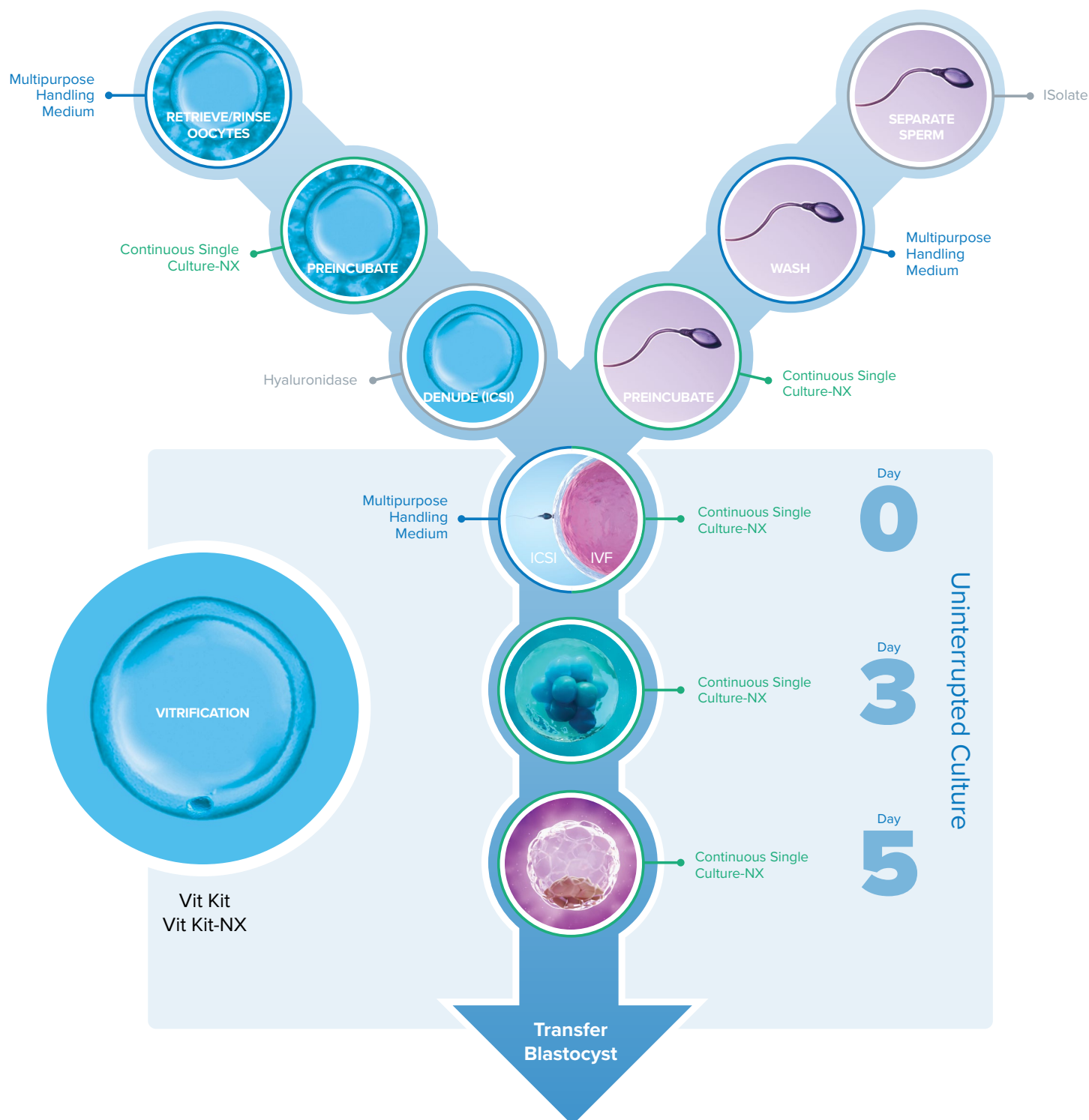
## Peace of Mind at Every Step

FUJIFILM Irvine Scientific was the first ART manufacturing company in the USA to receive ISO 13485 quality system certification, the rigorous international quality assurance standard designed specifically for Medical Devices. Every FUJIFILM Irvine Scientific product is subject to a stringent Quality System, unrivaled in the industry, and produced in well-established, cGMP compliant facilities.

# Simplification of the IVF Process

FUJIFILM Irvine Scientific streamlines and simplifies the entire IVF process with innovative media products.

- Multipurpose Handling Medium (MHM) | *page 17*
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# Fertilization & Embryo Culture

## Continuous Single Culture (CSCM)

Catalog ID: 90164

Intended for use as a culture medium for human gamete and embryo manipulation, fertilization through day 5/6 of development *in vitro*, when used in assisted reproductive technology (ART) procedures.

### Product Description:

- Optimized for use in an uninterrupted culture system without dish change or medium renewal
- Contains 10 µg/mL of gentamicin sulfate
- Requires protein supplementation

Size	Storage	CE Marked	Product Stability
60 mL	2–8°C	●	8 weeks after opening 90 days from date of manufacture



## Continuous Single Culture Complete (CSCM-C)

Catalog ID: 90165

Intended for use as a culture medium for human gamete and embryo manipulation, fertilization through day 5/6 of development *in vitro*, when used in assisted reproductive technology (ART) procedures.

### Product Description:

- Optimized for use in an uninterrupted culture system without dish change or medium renewal
- Contains 10 µg/mL of gentamicin sulfate
- Contains 5 mg/mL Human Serum Albumin (HSA)

Size	Storage	CE Marked	Product Stability
2 x 20 mL	2–8°C	●	8 weeks after opening 120 days from date of manufacture



## Continuous Single Culture-NX (CSCM-NX)

Catalog ID: 90167

Intended for use as a culture medium for human gametes and embryos from fertilization through day 5/6 of development *in vitro*, when used in assisted reproductive technology (ART) procedures.

### Product Description:

- A clinically proven, low-lactate, single-step culture medium that helps improve blastocyst development. CSCM-NX is designed for fertilization and embryo culture through day 5/6 of embryo development. This medium is optimized to be used in an uninterrupted culture system, without dish change or medium renewal.
- Contains 10 µg/mL of gentamicin sulfate.
- Requires protein supplementation.
- Phenol red free.

Size	Storage	CE Marked	Product Stability
60 mL	2–8°C		4 weeks after opening 120 days from date of manufacture



## Continuous Single Culture-NX Complete (CSCM-NXC)

Catalog ID: 90168

Intended for use as a culture medium for human gametes, zygotes and embryo manipulation, fertilization through day 5/6 of development *in vitro*, when used in assisted reproductive technology (ART) procedures.

### Product Description:

- A clinically proven, low-lactate, single-step culture medium that helps improve blastocyst development. CSCM-NXC is designed for fertilization and embryo culture through day 5/6 of embryo development. This medium is optimized to be used in an uninterrupted culture system, without dish change or medium renewal.
- Contains 10 µg/mL of gentamicin sulfate.
- Contains 5 mg/mL Human Serum Albumin (HSA).
- Phenol red free.

Size	Storage	CE Marked	Product Stability
2 x 20 mL 60 mL	2–8°C		4 weeks after opening 120 days from date of manufacture



# HTF Medium with Gentamicin

Catalog ID: 90125

Intended for use in assisted reproductive procedures which include human gamete and embryo manipulation. These procedures include the use of HTF as a culture medium through day 3 of development.

## Product Description:

- A synthetic, defined solution for use as a culture medium through day 3 of human embryo development as well as the processing of gametes. HTF is bicarbonate-based and is designed for use in a CO<sub>2</sub> incubator.
- Contains 10 µg/mL of gentamicin sulfate.
- Requires protein supplementation.



Size	Storage	CE Marked	Product Stability
100 mL	2–8°C		4 weeks after opening 120 days from date of manufacture



# Sperm Processing & Handling

## ISolate

Catalog ID: 99264

Intended for assisted reproductive procedures that involve the manipulation of human sperm. ISolate is intended for the separation of the motile fraction of sperm from seminal fluid.

### Product Description:

A density gradient medium designed to separate the motile fraction of the sperm from seminal fluid. As a two-layer gradient system (50% upper layer and 90% lower layer), it effectively reduces cellular contaminants such as dead sperm, white blood cells, and miscellaneous debris. The resulting sample contains predominantly motile sperm.

Size	Storage	CE Marked	Product Stability
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12 x 6 mL (up to 18 isolations)	2–8°C		Single use after opening 2 years from date of manufacture
2 x 100 mL (up to 50 isolations)			



## ISolate Stock Solution

Catalog ID: 99275

Intended for assisted reproductive procedures that involve the manipulation of human sperm. ISolate is intended for the separation of the motile fraction of sperm from seminal fluid.

### Product Description:

A 90% density gradient medium used for single-layer sperm separation or as the lower layer of a customized gradient developed by the end user based on the semen quality. ISolate effectively reduces cellular contaminants such as dead human sperm, white blood cells, and miscellaneous debris. The resulting sample contains predominantly motile human sperm.

Size	Storage	CE Marked	Product Stability
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100 mL	2–8°C		Single use after opening 2 years from date of manufacture
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## Sperm Washing Medium

Catalog ID: 9983

Intended to be used for washing human sperm during assisted reproductive technology (ART) procedures.

### Product Description:

- Sperm Washing Medium with Human Serum Albumin (HSA) is indicated for use on human spermatozoa during ART procedures which includes human gamete and embryo manipulation.
- Contains 5 mg/mL Human Serum Albumin (HSA).

Size	Storage	CE Marked	Product Stability
100 mL	2–8°C	●	8 weeks after opening 2 years from date of manufacture



## Polyvinylpyrrolidone (PVP) with HSA – 7%

Catalog ID: 90121

Intended for immobilizing human sperm to facilitate intracytoplasmic sperm injection (ICSI) when used in assisted reproductive technology (ART) procedures.

### Product Description:

- A viscous solution that allows for easier sperm micromanipulation by slowing or immobilizing sperm for ICSI
- Indicated for use in low motility (or poor quality) human semen specimens during ART procedures which include human gamete and embryo manipulation
- Contains 5 mg/mL Human Serum Albumin (HSA)

Size	Storage	CE Marked	Product Stability
5 x 0.5 mL	2–8°C	●	Single use after opening 6 months from date of manufacture



## Polyvinylpyrrolidone (PVP) with HSA – 10%

Catalog ID: 90123

Intended for immobilizing human sperm to facilitate intracytoplasmic sperm injection (ICSI) when used in assisted reproductive technology (ART) procedures.

### Product Description:

- A viscous solution that allows for easier sperm micromanipulation by slowing or immobilizing sperm for ICSI
- Indicated for use in normal and high motility human semen specimens during ART procedures which include human gamete and embryo manipulation
- Contains 5 mg/mL Human Serum Albumin (HSA)

Size	Storage	CE Marked	Product Stability
5 x 0.5 mL	2–8°C	●	Single use after opening 6 months from date of manufacture



# Protein Supplements

## Human Serum Albumin Solution (HSA)

Catalog ID: 9988

Intended for use in assisted reproductive procedures which include gamete and embryo manipulation, as a supplement for culture media. Not for use as an injectable product.

### Product Description:

Consists of HSA (100 mg/mL) from a therapeutic-grade source material in a saline solution. This represents 10% total protein (weight/volume) in normal saline.



Size	Storage	CE Marked	Product Stability
12 x 5 mL	2–8°C	●	Single use 3 years from date of manufacture

## SSS-NX (Serum Substitute Supplement – NX)

Catalog ID: 90194

Intended for use as a supplement in assisted reproductive procedures which include gamete and embryo manipulation and embryo culture.

### Product Description:

SSS-NX is an alpha (α) beta (β) globulin containing protein supplement that enhances performance when used in culture media that does not contain protein. It can also be used to increase the protein percentage of pre-supplemented media.

Contains approximately 50 mg/mL, or 5% (w/v), of protein in a saline solution, with the protein consisting of:

- $\geq 41.5$  mg/mL ( $\geq 83\%$ ) Human Serum Albumin (HSA)
- $\leq 8.5$  mg/mL  $\alpha\beta$  globulins ( $\leq 17\%$ ) and gamma globulins ( $\leq 1\%$ )



Size	Storage	CE Marked	Product Stability
100 mL 12 x 10 mL	2–8°C		Single use 1 year from date of manufacture

# Cryopreservation

Vit Kit-Freeze

Catalog ID: 90133-SO

Intended for use for vitrification and storage of human oocytes (MII), pronuclear (PN) zygotes through day 3 cleavage-stage embryos, and blastocyst-stage embryos when used in assisted reproductive technology (ART) procedures.

Product Description:

A flexible, cost-effective system for use in the vitrification of oocytes (MII), pronuclear (PN) zygotes, cleavage stage embryos, and blastocyst stage embryos. With survival rates ranging between 90-99%, and featuring low-volume protocols, Vit Kit Freeze can support your laboratory by reducing the cost of vitrification and ensuring consistent, high-survival rates.

**Equilibration Solution - ES** is a HEPES buffered solution of Medium-199 containing Gentamicin Sulfate, 7.5% (v/v) of each DMSO and ethylene glycol, and 20% (v/v) Dextran Serum Supplement (DSS).

**Vitrification Solution - VS** is a HEPES buffered solution of Medium-199 containing Gentamicin Sulfate, 15% (v/v) of each DMSO and ethylene glycol, 20% (v/v) DSS, and 0.5 M sucrose.

- DSS is a protein supplement consisting of 50 mg/mL therapeutic grade Human Serum Albumin (HSA) and 20 mg/mL Dextran. DSS is used at 20% (v/v) in Vit Kit-Freeze for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran.
- These two solutions are to be used in sequence according to the step-wise microdrop vitrification protocol.

Size	Storage	CE Marked	Product Stability
Equilibration Solution - ES (white cap) 2 x 1 mL	2-8°C	<div></div>	8 weeks after opening 12 months from date of manufacture
Vitrification Solution - VS (blue cap) 2 x 1 mL			





Vit Kit-Thaw

Catalog ID: 90137-SO

Intended for use in the thawing of vitrified oocytes (MII), pronuclear (PN) zygotes through day 3 cleavage-stage embryos, and blastocyst-stage embryos that have been vitrified using Vitrification Freeze Kit (Catalog ID 90133-SO).

Product Description:

A flexible, cost-effective system for use in the thawing of oocytes (MII), pronuclear (PN) zygotes, cleavage stage embryos, and blastocyst stage embryos. With survival rates ranging from 90-99%, and featuring low-volume protocols, Vit Kit-Thaw can support your laboratory by reducing the cost of vitrification and ensuring consistent, high-survival rates.

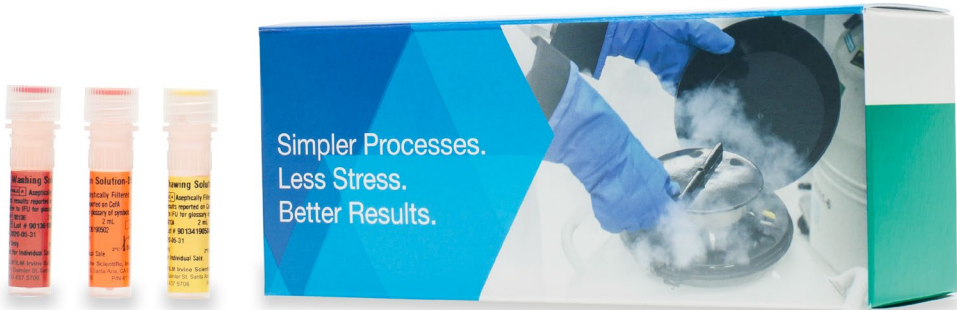
**Thawing Solution - TS** is a HEPES buffered solution of Medium-199 containing gentamicin sulfate, 1.0 M sucrose, and 20% (v/v) Dextran Serum Supplement (DSS).

**Dilution Solution - DS** is a HEPES buffered solution of Medium-199 containing gentamicin sulfate, 0.5 M sucrose, and 20% (v/v) DSS.

**Washing Solution - WS** is a HEPES buffered solution of Medium-199 containing gentamicin sulfate and 20% (v/v) DSS.

- DSS is a protein supplement consisting of 50 mg/mL therapeutic-grade Human Serum Albumin (HSA) and 20 mg/mL Dextran. DSS is used at 20% (v/v) in Vit Kit-Thaw for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran.
- These three solutions are to be used in sequence according to the step-wise microdrop warming protocol.

Size	Storage	CE Marked	Product Stability
Thawing Solution - TS (yellow cap) 4 x 2 mL	2-8°C	●	8 weeks after opening 12 months from date of manufacture
Dilution Solution - DS (orange cap) 1 x 2 mL			
Washing Solution - WS (red cap) 1 x 2 mL			



## Vit Kit - Freeze NX

Catalog ID: 90188

Intended for use in the vitrification and storage of human oocytes (MII), pronuclear (PN) zygotes through day 3 cleavage stage embryos and blastocyst stage embryos when used in assisted reproductive technology (ART) procedures.

### Product Description:

An adaptable, cost-effective system for use in the freezing of oocytes, pronuclear zygotes, cleavage-stage embryos, and blastocyst-stage embryos. Unlike many vitrification kits that feature a mono-buffered system and M199 base medium originally formulated for chick embryo fibroblasts, Vit Kit - Freeze NX is derived from current IVF media tailored specifically for human embryo culture.

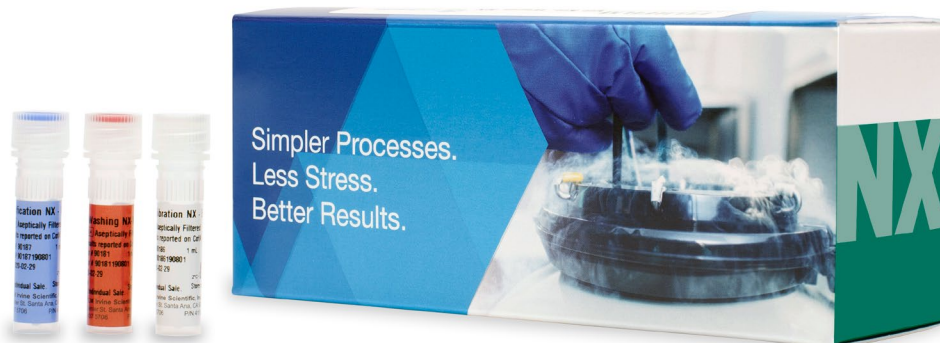
**Equilibration NX - ES** is a dual-buffered solution (HEPES and MOPS) of Continuous Single Culture medium (CSCM) - containing gentamicin sulfate, 7.5% (v/v) of each DMSO and ethylene glycol, and 20% (v/v) Dextran Serum Supplement (DSS).

**Vitrification NX - VS** is a dual-buffered solution (HEPES and MOPS) of Continuous Single Culture medium (CSCM) containing gentamicin sulfate, 15% (v/v) of each DMSO and ethylene glycol, 20% (v/v) DSS, and 0.5 M trehalose.

**Washing NX - WS** is a dual-buffered solution (HEPES and MOPS) of CSCM containing gentamicin sulfate and 20% (v/v) DSS.

- DSS is a protein supplement consisting of 50 mg/mL therapeutic grade Human Serum Albumin (HSA) and 20 mg/mL Dextran. DSS is used at 20% (v/v) in Vit Kit - Freeze NX for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran.
- These solutions are to be used in sequence according to the step-wise microdrop vitrification protocol.

Size	Storage	CE Marked	Product Stability
Equilibration NX - ES (white cap) 3 x 1 mL	2-8°C	●	2 weeks after opening 12 months from date of manufacture
Vitrification NX - VS (blue cap) 3 x 1 mL			
Washing NX - WS (red cap) 1 x 1 mL			



## Vit Kit - Warm NX

Catalog ID: 90183

Intended for the thawing of vitrified human oocytes (MII), pronuclear (PN) zygotes through day 3 cleavage stage embryos and blastocyst stage embryos when used in assisted reproductive technology (ART) procedures.

### Product Description:

An adaptable, cost-effective system for use in the thawing of oocytes, pronuclear zygotes, cleavage-stage embryos, and blastocyst-stage embryos. Unlike many vitrification kits that feature a mono-buffered system and M199 base medium originally formulated for chick embryo fibroblasts, Vit Kit - Warm NX is derived from current IVF media tailored specifically for human embryo culture.

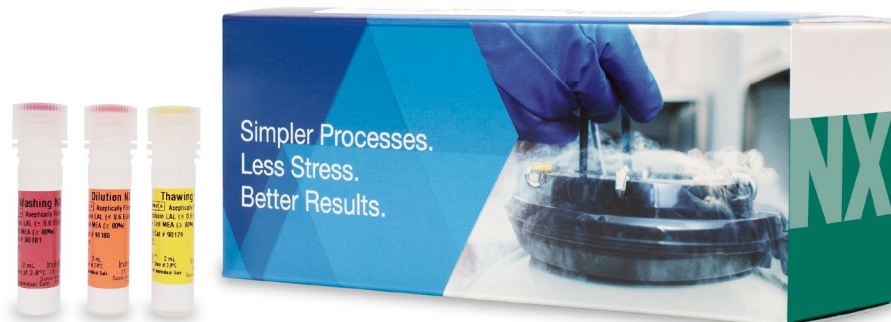
**Thawing NX - TS** is a dual-buffered solution (HEPES and MOPS) of Continuous Single Culture Medium (CSCM) containing gentamicin sulfate, 20% (v/v) Dextran Serum Supplement (DSS), and 1.0M trehalose.

**Dilution NX - DS** is a dual-buffered solution (HEPES and MOPS) of Continuous Single Culture Medium (CSCM) containing gentamicin sulfate, 20% (v/v) DSS, and 0.5 M trehalose.

**Washing NX - WS** is a dual-buffered solution (HEPES and MOPS) of Continuous Single Culture Medium (CSCM) containing gentamicin sulfate and 20% (v/v) DSS.

- DSS is a protein supplement consisting of 50 mg/mL therapeutic-grade Human Serum Albumin (HSA) and 20 mg/mL Dextran. DSS is used at 20% (v/v) in Vit Kit - Warm NX for a final concentration of 10 mg/mL HSA and 4 mg/mL Dextran.
- These three solutions are to be used in sequence according to the step-wise microdrop thawing protocol.

Size	Storage	CE Marked	Product Stability
Thawing NX - TS (yellow cap) 6 x 2 mL	2–8°C	●	2 weeks after opening 12 months from date of manufacture
Dilution NX - DS (orange cap) 2 x 1 mL			
Washing NX - WS (red cap) 4 x 1 mL			



## Freezing Medium - TYB

Catalog ID: 90128

Intended for cryopreservation of human semen when used in assisted reproductive technology (ART) procedures.

### Product Description:

Freezing Medium TYB is indicated for use in ART procedures which includes the cryopreservation of human semen for use in assisted reproductive storage and future use in procedures which include insemination, *in vitro* fertilization, or sperm analysis.

Size	Storage	CE Marked	Product Stability
20 x 5 mL	Below -10 °C		Single use after opening 2 years from date of manufacture



## Refrigeration Medium - TYB

Catalog ID: 90129

Intended for refrigeration of human semen for use in assisted reproductive (ART) procedures.

### Product Description:

Ideal for short-term sperm storage to preserve sperm for up to four days. With an easy one-step process of simply thawing the media and adding media at a 1:1 ratio with the sperm sample, it is quicker and easier than sperm cryopreservation. Refrigeration Medium - TYB with Gentamicin contains TEST-yolk buffer as the protecting agent, and the glycerol-free formulation avoids the potentially damaging effects from penetrating cryoprotectants.

Size	Storage	CE Marked	Product Stability
20 x 5 mL	Below -10 °C		Single use after opening 2 years from date of manufacture when frozen



## Arctic Sperm Cryopreservation Medium

Catalog ID: 90170

Intended for cryopreservation and storage of human sperm when used in assisted reproductive technology (ART) procedures.

### Product Description:

- Free of TEST-yolk buffer (TYB) or other animal components.
- A dual-buffered solution containing HEPES and MOPS that provides a secure environment to maintain physiological pH while handling sperm pre- and post-thaw.
- Has a high glycerol concentration that uses less medium per application, requiring only a 3:1 ratio of semen to medium.
- Contains 20 mg/mL Human Serum Albumin (HSA).

Size	Storage	CE Marked	Product Stability
12 x 5 mL	2-8°C		7 days after opening 18 months from date of manufacture





# Gamete & Embryo Handling

## Multipurpose Handling Medium (MHM)

Catalog ID: 90163

Intended for use in assisted reproductive technology (ART) procedures which involve the manipulation of gametes or embryos. Specifically, MHM is indicated for use as an oocyte retrieval medium during ovarian follicle aspiration procedures (not for flushing ovarian follicles), washing sperm prior to IVF and ICSI fertilization procedures, and for transport of the embryo to the uterus during embryo transfer procedures.

### Product Description:

- A dual-buffered solution (HEPES and MOPS) that provides a safe and secure environment to maintain viability of gametes and embryos during manipulations under ambient conditions. It is a versatile solution for swim-up preparation, sperm washing, oocyte retrieval and rinsing, IUI, ICSI, and embryo transfer.
- Contains 10 µg/mL of the antibiotic gentamicin sulfate.
- Requires protein supplementation.

Size	Storage	CE Marked	Product Stability
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100 mL	2–8°C	●	5 weeks after opening
500 mL			12 months from date of manufacture



## Multipurpose Handling Medium Complete (MHM-C)

Catalog ID: 90166

Intended for use in assisted reproductive technology (ART) procedures which involve the manipulation of human gametes and embryos. Specifically, MHM is indicated for use as an oocyte retrieval medium during ovarian follicle aspiration procedures (not for flushing ovarian follicles), washing sperm prior to IVF and ICSI fertilization procedures, and for transport of the embryo to the uterus during embryo transfer procedures.

### Product Description:

- A dual-buffered solution (HEPES and MOPS) that provides a safe and secure environment to maintain viability of gametes and embryos during manipulations under ambient conditions. It is a versatile solution for swim up preparation, sperm washing, oocyte retrieval and rinsing, IUI, ICSI, and embryo transfer.
- Contains 9.5 µg/mL of the antibiotic gentamicin sulfate.
- Contains 5 mg/mL Human Serum Albumin (HSA).

Size	Storage	CE Marked	Product Stability
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100 mL	2–8°C	●	5 weeks after opening
500 mL			(100 mL and 500 mL)
12 x 12 mL			1 week after opening (12 x 12 mL) 12 months from date of manufacture



## Modified HTF Medium with Gentamicin (mHTF)

Catalog ID: 90126

Intended for retrieval, handling, and/or transfer of human gametes, and embryos when used in assisted reproductive technology (ART) procedures.

### Product Description:

- A synthetic, defined solution for procedures which include the retrieval, handling, and transfer of human gametes and embryos. mHTF is composed of a HEPES and sodium bicarbonate buffering system, making it ideal for use in ambient atmosphere conditions.
- Contains 10 µg/mL of gentamicin sulfate.
- Requires protein supplementation.

Size	Storage	CE Marked	Product Stability
100 mL	2–8°C	●	8 weeks after opening 12 months from date of manufacture
500 mL			



## Hyaluronidase Solution

Catalog ID: 90101

Intended for use in removing cumulus cells surrounding human oocytes (denudation).

### Product Description:

- An enzymatic solution containing 80 IU/mL of bovine-derived hyaluronidase in a HEPES buffered HTF medium supplemented with 5 mg/mL therapeutic-grade Human Serum Albumin (HSA)
- Contains 10 µg/mL of gentamicin sulfate

Size	Storage	CE Marked	Product Stability
5 x 1 mL	2–8°C	●	Single use after opening 12 months from date of manufacture



## Oil for Embryo Culture

Catalog ID: 9305

Intended for use as an overlay to cover small volumes of culture media during human embryo and gamete manipulation.

### Product Description:

A sterile light mineral oil intended for use as an overlay when culturing in reduced volumes of media to prevent evaporation, and to protect the media from changes in osmolality and pH.

Size	Storage	CE Marked	Product Stability
100 mL	15–30°C	●	8 weeks after opening 2 years from date of manufacture
500 mL			



## Heavy Oil for Embryo Culture

Catalog ID: 90189

Intended for use as an overlay during human assisted reproduction technology (ART) procedures.

### Product Description:

Heavy Oil for Embryo Culture is a sterile heavy mineral oil used as an overlay when culturing small volumes of media to protect the fertilized embryo - preventing evaporation, changes in osmolality, and pH shifts, while providing the optimal *in vitro* environment for development.

- Ideal handling viscosity for IVF processes
- Superior quality control with MEGA - our unique genetic mouse embryo assay for added security
- POV values reported on the COA to assure quality and confidence

Size	Storage	CE Marked	Product Stability
100 mL	2–8°C		8 weeks after opening
500 mL			2 years from date of manufacture



## PBS 1X - Dulbecco's Phosphate Buffered Saline Solution

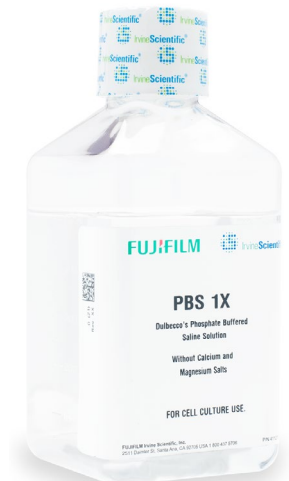
Catalog ID: 9235

Intended for use in assisted reproductive procedures which include retrieval, handling and transfer of gametes and embryos.

### Product Description:

A synthetic, defined solution for procedures which include the retrieval, handling, and transfer of human gametes and embryos.

Size	Storage	CE Marked	Product Stability
500 mL	15–30°C		Single use after opening 12 months from date of manufacture



FUJIFILM Irvine Scientific has been a well-recognized supplier of innovative media solutions and lab supplies to the ART community for over 30 years.

Media solutions, such as ISolate for sperm preparation and Freezing Medium TYB for cryopreservation, have set industry standards in the field of andrology. FUJIFILM Irvine Scientific pioneered the use of vitrification with Vit Kit to increase survival rates of cryopreserved oocytes and embryos, and further improved vitrification media with Vit Kit-NX.

Today, with a new generation of optimized, multi-use media, Multipurpose Handling Medium and Continuous Single Culture, FUJIFILM Irvine Scientific continues to increase workflow efficiency and contribute to successful pregnancies in clinics throughout the world.



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