



A work
for ART

IVF
BASICS[®]



The Basic
IVF Tool



Oocyte and Embryo manipulation



IVF Basics® HTF
IVF Basics® Cult Oil

IVF basics®

HTF

IVF Basics® HTF is a unique handling, conditioning and culture medium which is used in over 100.000 IVF cycles already. The IVF Basics® HTF range is developed for IVF, GIFT and ZIFT procedures in order to facilitate the gamete and embryo manipulation.



The IVF Basics® HTF comes in two variants:

- **IVF Basics® HTF Bic w/o 0,4% HSA:** Designed for the use in a CO₂ incubator, Bicarbonate buffered and contains phenol red for visual pH control
- **IVF Basics® HTF HEPES w/o 0,4% HSA:** Contains a HEPES buffer to maintain a stable pH during procedures performed outside a CO₂ incubator

Characteristics

- Best documented medium
> 15 years IVF results
> 15 years safety data
- The Golden standard medium
- Two variants: HEPES buffered or Bicarbonate
- Option to supplement the media with 0,4% HSA
- Contains Gentamicin
- Free of animal derived components
- Storage at 2°C to 8°C
- Shelf life of 18 months

IVF Basics® HTF media can be used for the following procedures:

- Flushing for oocyte collection
- Washing/handling of human ova
- Washing/handling of spermatozoa
- Swim-up of spermatozoa
- Production of density gradient media
- Washing/handling for human embryos
- Embryo transfer
- IUI, IVF, ICSI
- Embryo culture from day 1 to blastocyst stage (IVF Basics® HTF (with HSA))

Quality Control

- pH: 7,20 – 7,60
(At 5% CO₂ for IVF Basics® HTF (with HSA))
- Osmolality: 270 – 290 mOSm/kg
- Endotoxin: < 0,25 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- HSA: 3,20 – 4,80 g/liter
- MEA: ≥ 80%
Blastocysts after 96h

Specifications

Formula

Components	IVF Basics® HTF Bic	IVF Basics® HTF HEPES
NaCl	5600	5930
KCl	350	350
Glucose x H ₂ O	550	550
KH ₂ PO ₄	50	50
MgSO ₄ x 7H ₂ O	51	51
CaCl ₂ x 2H ₂ O	300	300
D-L-Na Lactate	2363,4	2363,4
Gentamicin Sulfate	10	10
Na Pyruvate	37	37
NaHCO ₃	2101	330
HEPES	-	4770
Phenol Red Na Salt	5,3	-

Catalogue numbers - HTF

	Description	Bottle sizes	Reference
IVF Basics® HTF Bic	HTF with Gentamicin	500 ml	HTF-B-500
		250 ml	HTF-B-250
		120 ml	HTF-B-120
		60 ml	HTF-B-60
		30 ml	HTF-B-30
IVF Basics® HTF HEPES	HTF HEPES with Gentamicin	500 ml	HTF-H-500
		250 ml	HTF-H-250
		120 ml	HTF-H-120
		60 ml	HTF-H-60
		30 ml	HTF-H-30

Features

- Gynotec offers the HTF Basics® HTF at a high quality with a competitive price.
- Different bottle sizes to serve everyone's preferences.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability.

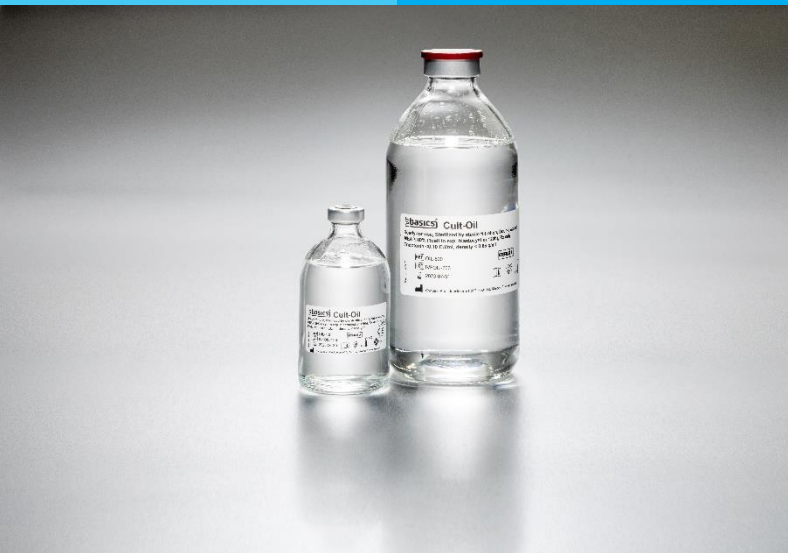
Catalogue numbers - HTF with HSA

	Description	Bottle sizes	Reference
IVF Basics® HTF Bic with 0,4% HSA	HTF with Gentamicin enriched with 0,4% HSA	500 ml	HTF-B-0,4A-500
		250 ml	HTF-B-0,4A-250
		120 ml	HTF-B-0,4A-120
		60 ml	HTF-B-0,4A-60
		30 ml	HTF-B-0,4A-30
IVF Basics® HTF HEPES with 0,4% HSA	HTF HEPES with Gentamicin enriched with 0,4% HSA	500 ml	HTF-H-0,4A-500
		250 ml	HTF-H-0,4A-250
		120 ml	HTF-H-0,4A-120
		60 ml	HTF-H-0,4A-60
		30 ml	HTF-H-0,4A-30

IVF basics®

Cult-Oil

IVF Basics® Cult-Oil is a ready-to-use, double washed with water, light mineral oil for use in IVF, ICSI and related ART procedures (d = 0.83-0.86 g/ml).



IVF Basics® Cult-Oil is highly recommended during:

- Oocyte culture
- Denudation of oocytes
- Fertilization of oocytes (by IVF or ICSI)
- Embryo culture
- Embryo manipulation

Characteristics

- 100% paraffin mineral oil pre-washed with water
- MEA test 120h in culture
- Glass or PETG bottles
- Delivered in opaque box to keep product away from sunlight
- Available in different bottle sizes
- Storage at 15°C to 25°C
- Shelf life of 18 months

Composition:

- Mineral Oil – Paraffin Oil (EP Monograph 0240, CAS code: 8042-47-5)
- IVF Basics® Cult-Oil is double washed with water, no further preparations necessary
- IVF Basics® Cult-Oil can be used together with a bicarbonate-buffered medium such as IVF Basics® HTF

Quality Control

- Endotoxin: < 0,10 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- Density: 0,83 – 0,86 g/ml
- Viscosity: < 60cP at 30°C
- POV: < 0,10 mEq/Kg (Peroxide value)
- MEA: ≥ 80%
Blastocysts after 120h culture

Specifications

Catalogue numbers – Glass bottles

	Description	Bottle sizes	Reference
IVF Basics® Cult-Oil	Light mineral oil	500 ml	OIL-500
		250 ml	OIL-250
		100 ml	OIL-100
		50 ml	OIL-50

Catalogue numbers – PETG bottles

	Description	Bottle sizes	Reference
IVF Basics® Cult-Oil	Light mineral oil	500 ml	COIL-500
		100 ml	COIL-100
		50 ml	COIL-50

Features

Different bottle sizes to serve everyone's preferences.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability.



Sperm processing



SpermFilter® Gradient
SpermWash®



Gradient

SpermFilter® is a ready-to-use silane coated silica particles colloidal suspension medium for semen preparation in IUI, IVF and ICSI.



The SpermFilter® comes in the following variants:

- **SpermFilter® Stock Solution – 100%:** Designed for preparing your own desired gradient system for semen preparation (e.g. 45%-90% or 40%-80%)
- **SpermFilter® Gradient 80% or 45%:** Ready-to-use gradient for semen preparation

Characteristics

- Silane coated silica particles
- Osmolar stable with EBSS salts
- No osmotic stress when used in conjunction with SpermWash® medium
- Removes sources of ROS, bacteria, sperm with abnormal DNA
- Improves cryo-survival
- Improves yield and recovery compared to swim-up techniques
- Storage at 2°C to 8°C
- Shelf life of 18 months

Composition:

- SpermFilter® is composed of silica particles covalently coated with silane suspended in HEPES buffered EBSS (Earle's balanced salt solution)
- SpermFilter is an isotonic gradient with a density of +/- 1,12 g/ml

Quality Control

- pH: 7,20 – 7,60 (Release criteria)
7,20 – 7,90 (Stability criteria)
- Osmolality: 300 – 330 mOsm/kg (100% Stock solution)
310 – 340 mOsm/kg (80-45% gradient)
- Endotoxin: < 0,50 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- Density: 1,1150 – 1,1250 g/ml (100% Stock solution)
1,0970 – 1,1070 g/ml (80% gradient)
- Gentamicin: 5 – 15 mg/liter (80-45% gradient)
- SST: ≥ 80% (After 4h exposure)
≥ 75% (After 24h exposure)

Specifications

Catalogue numbers – SpermFilter® Stock solution – 100%

	Description	Bottle sizes	Reference
SpermFilter® Stock Solution 100%	Without Phenol red and Gentamicin	500 ml	SPF100-0500
		250 ml	SPF100-0250
		100 ml	SPF100-0100
		50 ml	SPF100-0050
		10 ml	SPF100-0010

Catalogue numbers - SpermFilter® Ready-to-use Gradient – 80%

	Description	Bottle sizes	Reference
SpermFilter® Ready-to-use Gradient 80%	With Phenol red and Gentamicin	500 ml	SPF80-0500
		250 ml	SPF80-0250
		100 ml	SPF80-0100
		50 ml	SPF80-0050
		10 ml	SPF80-0010

Catalogue numbers - SpermFilter® Ready-to-use Gradient – 45%

	Description	Bottle sizes	Reference
SpermFilter® Ready-to-use Gradient 45%	With Phenol red and Gentamicin	500 ml	SPF45-0500
		250 ml	SPF45-0250
		100 ml	SPF45-0100
		50 ml	SPF45-0050
		10 ml	SPF45-0010

Features

Different bottle sizes to serve everyone's preferences.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability

Spermwash®

Medium

SpermWash® is a washing medium developed for, amongst others, swim-up, IUI and ICSI procedures in order to facilitate the sperm processing.



SpermWash® can be used for the following procedures:

- Swim up techniques of human spermatozoa
- Introduction of washed spermatozoa into the uterus during IUI
- For sperm injection into oocyte during ICSI
- To wash the spermatozoa
- Diluting stock solution of silica-based density gradients, like SpermFilter® Stock Solution 100%
- Washing of human oocytes, embryos and embryo transfer

Characteristics

- Ready-to-use
- No need for CO₂ incubation due to a HEPES buffer
- Does not contain heparin
- Sterilized using aseptic processing techniques
- Storage at 2°C to 8°C
- Shelf life of 18 months

Composition:

- SpermWash® is a ready-to-use HEPES buffered medium which contains bicarbonate, physiologic salts, glucose, lactate, HSA (Human Serum Albumin, 4,00 g/l), gentamicin and phenol red

Quality Control

- pH: 7,30 – 7,60 (Release criteria)
7,30 – 7,90 (Stability criteria)
- Osmolality: 270 – 290 mOsm/kg
- Endotoxin: < 0,25 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- HSA: 3,20 – 4,80 g/liter
- MEA: ≥ 80%
Blastocysts after 96h

Specifications

Catalogue numbers – SpermWash®

	Description	Bottle sizes	Reference
SpermWash®	Medium	500 ml	SW-0500
		250 ml	SW-0250
		100 ml	SW-0100
		50 ml	SW-0050
		10 ml	SW-0010
		2 ml	SW-0002

Features

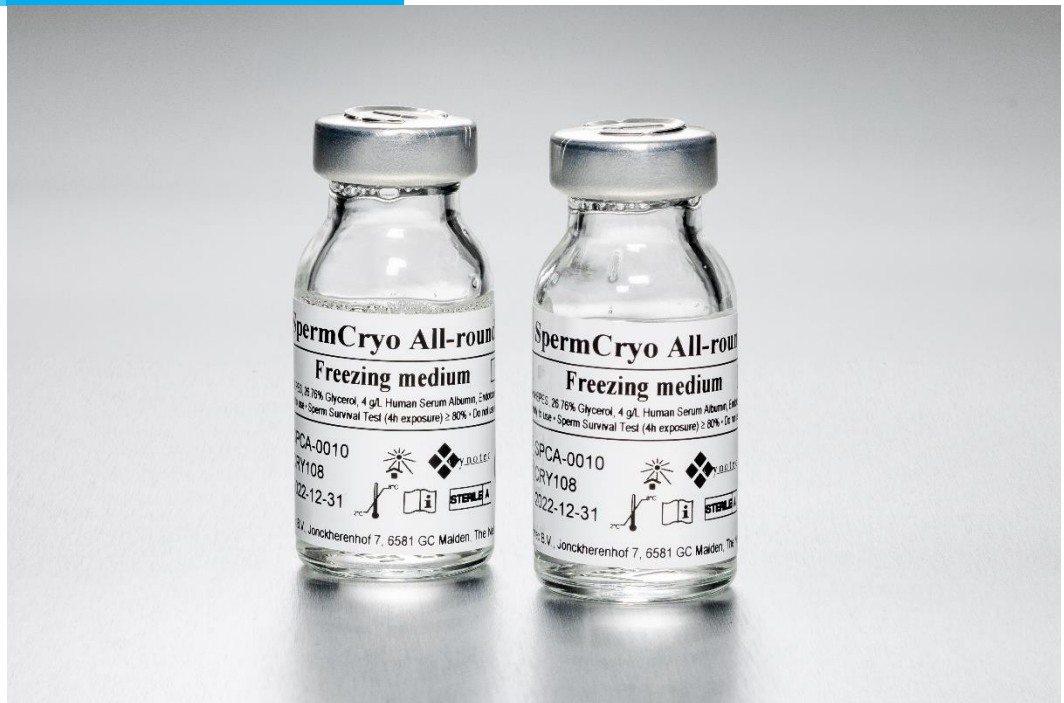
Different bottle sizes to serve everyone's preferences.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability



Cryopreservation



**SpermCryo[®] All-round
IVF Basics[®] (De)Vitrify kit**



Medium

SpermCryo® All-round is a four times concentrated ready-to-use HEPES buffered cryopreservation medium for Freezing human semen at ultra-low temperatures (-196°C) in liquid nitrogen.



SpermCryo® All-round:

- Contains glycerol in order to protect the sperm from damage due to the freezing process
- Used in combination with SpermFilter ready-to-use gradients

Characteristics

- Ready-to-use
- Rapid freezing procedure (25 minutes)
- Concentrated cryoprotectant
- High sperm recovery rate
- Storage at 2°C to 8°C
- Shelf life of 18 months

Composition:

- SpermCryo® All-round is a HEPES buffered freezing medium for human sperm
- It contains 26,7% glycerol in order to protect the sperm from damage due to the freezing process
- Contains 0,4% HSA

Quality Control

- pH: 7,20 – 7,60 (Release criteria)
7,20 – 7,90 (Stability criteria)
- Endotoxin: < 0,25 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- HSA: 3,20 – 4,80 g/liter
- SST: ≥ 80%
4h exposure

Specifications

Catalogue numbers – SpermCryo® All-round

	Description	Bottle sizes	Reference
SpermCryo® All-round	Cryopreservation medium	20 ml	SPCA-0020
		10 ml	SPCA-0010
		5 ml	SPCA-0005

Features

Different bottle sizes to serve everyone's preferences.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability

IVF basics®

(De)Vitrify

IVF Basics® Vitrify and IVF Basics® DeVitrify are kits designed for vitrification and warming of human oocytes and human embryos for the use in IVF, ICSI and related ART procedures.



IVF Basics® (De)Vitrify kits:

- Are designed to work well with the reduced cooling rates which are inherent to the use of closed vitrification devices (due to thermo-isolation)
- Used in conjunction with IVF Basics® HTF for embryo culture and to wash oocytes/embryos before vitrification and after warming

Characteristics

- Ready-to-use
- Contains DMSO and Ethylene Glycol
- Contains HSA
- Certified for use in oocytes and embryos
- Storage at 2°C to 8°C
- Shelf life of 12 months

Composition:

- IVF Basics® (De)Vitrify kit is HTF based and composed of Human Serum Albumin (12 – 20 g/L), sucrose and HEPES
- Furthermore, it contains DMSO, Ficoll and Ethylene Glycol (EG)
- The media do not contain antibiotics

Quality Control

- pH: 7,20 – 7,40 (Release criteria)
7,20 – 7,50 (Stability criteria)
- Endotoxin: < 0,25 EU/ml
- Sterility test: According to current Ph. Eur. 2.6.1 / USP <71>
- MEA: ≥ 80%
Blastocysts after 96h

Specifications

Catalogue numbers – IVF Basics® Vitrify kit

	Description	Bottle sizes	Reference
IVF Basics® Vitrify kit	IBVKIT6 <i>The kit contains the following:</i>	5 ml	IBV-00-5 Pre-incubation
		1 ml	IBV-01-1 (V1)
		1 ml	IBV-02-1 (V2)
		1 ml	IBV-03-1 (V3)
		1 ml	IBV-04-1 (V4)
		1 ml	IBV-05-1 (V5)

Features

Complete kits to vitrify or warm human oocytes and human embryos.

Quality control

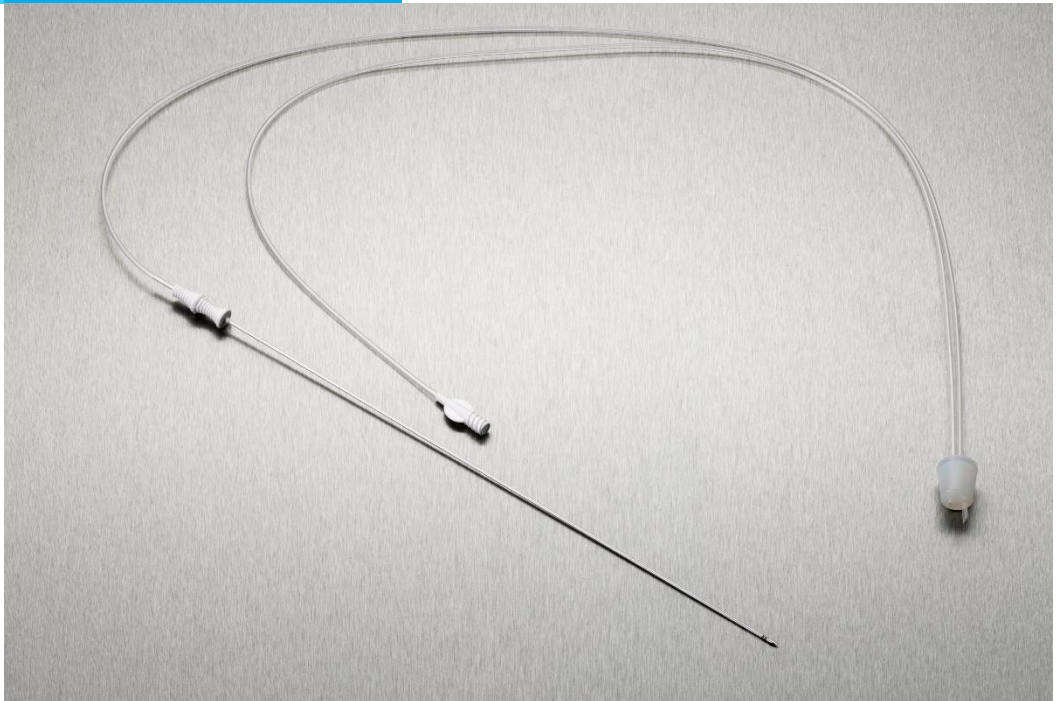
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Catalogue numbers – IVF Basics® DeVitrify kit

	Description	Bottle sizes	Reference
IVF Basics® DeVitrify kit	IBDKIT6 <i>The kit contains the following:</i>	5 ml	IBD-01-5 (D1)
		1 ml	IBD-02-1 (D2)
		1 ml	IBD-03-1 (D3)
		1 ml	IBD-04-1 (D4)
		1 ml	IBD-05-1 (D5)
		1 ml	IBD-06-1 (D6)



Oocyte retrieval

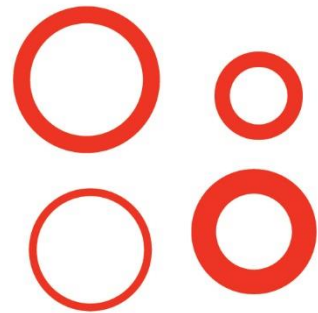
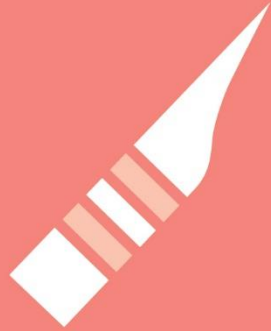


Mona Lisa[®] Aspiration Needle

Mona Lisa®

Aspiration Needle

Mona Lisa® Aspiration needles are used for ultrasound-guided transvaginal collection and transport of oocytes from ovarian follicles.



Mona Lisa® Aspiration Needle:

- Customization for all needle sets possible

Characteristics

- **Lancet Shape**
Very sharp due to the design and polishing
- **Double laser mark**
Enhances visibility on echo-screen
- **Facet grinding**
Extra safe, no tissue is cut away
- **Two finger control**
Precision of the puncture
- **Bubble**
Indicating the opening of the needle point
- Shelf life of 4 years

Composition:

- The Mona Lisa® Aspiration Needle is a sterile, latex-free, single use device.
- The device consists of a single-lumen stainless steel needle attached to tubing in a single unit

Quality Control

- Sterilization: By Radiation
- Endotoxin: < 0,50 EU/ml
- MEA: ≥ 80%
2-Cell survival

Specifications

Catalogue numbers – Mona Lisa® Aspiration Needle

Product code	G-MN-1,6-A	G-MN-1,6-Short-A	G-MN-1,4-A	G-MN-1,4-Short-A	G-MN-1,4-SP-A	G-MN-1,4-SP-Short-A
Needle Length (mm)	380	340	380	340	380	340
Needle Diameter (mm) O.D. / I.D.	1,6 / 1,3	1,6 / 1,3	1,4 / 1,0	1,4 / 1,0	1,4 / 1,2	1,4 / 1,2
Wall Thickness (mm)	0,15	0,15	0,20	0,20	0,10	0,10
Needle - Cork (mm)	750	750	750	750	750	750
Cork (mm)	14 x 18 x 22	14 x 18 x 22	14 x 18 x 22	14 x 18 x 22	14 x 18 x 22	14 x 18 x 22
Cork - Luer lock (mm)	750	750	750	750	750	750

Features

We offer customization for all needle sets. You can create your own custom product.

Quality control

Each lot is thoroughly quality control tested, resulting in a very consistent product quality and reliability

Quality certified

Quality is the key point in the design and development of all products and services provided by Gynotec. In order to ensure the highest quality, Gynotec works in accordance with the Medical Device Regulation (EU) 2017/745 and is ISO 13485 certified.



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