

**PRODUCT  
CATALOGUE**

MEDIA &  
HYPURE® OILS



**Quality Results  
for Life**

# Beyond the Basics. Excellence in Every Drop

## Innovation and Precision in Assisted Reproduction

At Kitazato, we offer a wide range of IVF and Andrology media designed to **optimize Day 0 outcomes**.

Combining innovation, quality, and safety, our products ensure the **ideal conditions for gametes and embryos**, maximizing success rates in assisted reproduction treatments.



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HYPURE<sup>®</sup> OILS

***KITAZATO***®

**IVF MEDIA**

# Flushing Buffer

## Heparin-Enhanced, Maximized Oocyte Retrieval

Smooth aspiration, better outcomes



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**HEPES-Buffered:** Ensures stable pH without requiring a CO<sub>2</sub> incubator.



**Heparin Inclusion:** Supports follicular flushing dissolving eventual clots and enhancing recovery of oocytes.



**Improves Oocyte Retrieval.**

## Main characteristics

- **Ready-to-Use.**
- **Gentle Flushing Procedure:** Heparin inclusion ensures minimal disruption during follicular flushing.
- **Validated High Performance:** Proven >80% blastocyst development rate.
- **Low Endotoxins Level.**
- **Long Shelf Life:** Up to 18 months.

# Fertilization Medium

**The Perfect Balance for Life's First Step**

Precision in pH stability and antimicrobial protection



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**Pre-Equilibrated Convenience:** Prepares easily for use under oil with CO<sub>2</sub> incubation.



**Nutrient-rich solution:** Contains specific sources of energy to enhance fertilization.

## Main characteristics

- **Optimized for IVF success:** Promotes fertilization and oocyte handling up to the 2PN stage.
- **Reliable Stability:** Remains effective for 7 days post-opening under sterile conditions.
- **Ready-to-Use.**
- **Safe and Effective Composition:** Antimicrobial protection and essential physiological salts for nutrition.
- **Long Shelf Life:** Up to 12 months.

# Hyaluronidase

**Gentle Precision for Perfect Denudation**

Protecting oocytes, optimizing fertilization



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**HEPES-Buffered:**  
Maintains stable pH  
without CO<sub>2</sub> incubation.



**Certified Bouine  
Hyaluronidase:** Complies  
with WHO and ISO standards  
for biological safety.

## Main characteristics

- **Ready-to-Use:** Specifically designed for oocyte denudation prior to ICSI.
- **Optimal pH Stability:** Ensures a stable environment for oocyte denudation.
- **Optimized Denudation Efficiency:** Rapidly and effectively removes the cumulus and corona radiata.
- **Extended Stability:** Reliable for up to 7 days post-opening under aseptic conditions.



# Gamete Buffer

Balanced pH, antimicrobial protection, and versatility in every step



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**Optimal pH Maintenance:**  
Stable pH range of 7.3-7.6  
without CO<sub>2</sub> incubation.



Ready-to-Use.

## Main characteristics

- **HEPES-Buffered:** Ensures stable pH without requiring CO<sub>2</sub> incubation.
- **Safe and Effective Composition:** Specifically design for oocyte retrieval and handling.
- **High Blastocyst Development Rate:** Achieves >80% blastocyst development in the 1-cell MEA test.
- **Proven Performance:** Ensures high embryo development rates in ART procedures.

# PRODUCT REFERENCES

## FLUSHING BUFFER

Order Number	Code	Content
95751	FBD-50	50ml
95752	FBD-100	100ml



## FERTILIZATION MEDIUM

Order Number	Code	Content
95801	SKD-01-50	50ml
95802	SKD-01-100	100ml



## HYALURONIDASE

Order Number	Code	Content
95931	HYBD-10	1x10ml
95940	HYBD-1x5	5x1ml



## GAMETE BUFFER

Order Number	Code	Content
95721	GBSD-50	50ml
95722	GBSD-100	100ml



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**ANDROLOGY MEDIA**

# SepaSperm<sup>®</sup> Solution

**Tailored Sperm Selection for Optimal ART Outcomes**

Ready-to-use or fully customizable, your choice



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Highly Versatile Density Gradient Solution



Customizable Gradient Preparation

## Main characteristics

- **Pure Density Gradient Medium:** Ensures effective sperm separation.
- **pH Stability:** Ensures optimal conditions for sperm processing.
- **Optimized Performance:** Yields higher sperm motility than competitors.
- **Safe and Reliable:** Free from contaminants affecting fertilization.

# SepaSperm® Gradients 45% and 90%

**Tailored Sperm Selection for Optimal ART Outcomes**

Ready-to-use or fully customizable, your choice



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more info



Ready-to-Use  
Density Gradients



Optimized  
Dual-Layer System

## Main characteristics

- **HEPES-Buffered:** Ensures stable pH during sperm separation.
- **Higher Motile Sperm Recovery:** Outperforms in comparison with other brands density gradients.
- **Safer Formulation:** Free from contaminants that can impact fertilization.

# SepaSperm<sup>®</sup> Wash

**Purity and Performance in Sperm Preparation**  
Precision in pH stability and antimicrobial protection



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Specialized Sperm  
Washing Medium



Superior Stability Without  
CO<sub>2</sub> Dependence

## Main characteristics

- **Ready-to-Use:** Specifically designed for sperm washing and swim-up techniques.
- **Optimized for Sperm Processing:** Enhances ART success rates by improving sperm quality.
- **High Motile Sperm Recovery:** Facilitates efficient sperm washing and selection.
- **Higher Sperm Yield:** Outperforms standard sperm washing solutions.

# PVP

## Precision-Controlled Viscosity for Seamless ICSI Manipulation

Optimized viscosity and stable pH for superior sperm handling



**10% Viscosity:** Due to its high viscosity, it rapidly immobilizes sperm and remains effective with highly motile, high-quality spermatozoa



**Enhanced Control:** Its higher density allows for better precision and control over the droplet



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## Main characteristics

- **Ready-to-Use.**
- **Safe and Effective Composition:** Ensures minimal impact on sperm DNA integrity.
- **Non-Toxic Formulation:** Prevents the generation of reactive oxygen species (ROS).
- **Higher Purity:** Free of contaminants that can impact embryo development.

# Sperm Freeze

**Reliable Cryopreservation, Superior Post-Thaw Viability**

Preserving potential, ensuring success

FOR SAMPLES WITH GOOD INITIAL QUALITY



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## Main characteristics

- **Ready-to-Use.**
- **Extended Stability:** Maintains efficacy for 7 days after opening.
- **Stable pH without CO<sub>2</sub>.**
- **High Post-Thaw Survival Rates:** 80% sperm survival after 4 hours and 75% after 24 hours of exposure.



# Sperm Freeze G-Plus

**Maximum Protection, Uncompromised Sperm Survival**

Elevating cryopreservation to the next level

FOR SAMPLES WITH COMPROMISED CHARACTERISTICS



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## Main characteristics

- **Ready-to-Use.**
- **Enhanced Glycerol Content (27%):** for compromised samples.
- **Ideal for long-term storage and sperm banks.**
- **Improved Post-Thaw Sperm Viability:** Enhanced formulation with elevated glycerol concentration for optimal results.

# PRODUCT REFERENCES

## SEPASPERM®

Type	Order Number	Code	Contents
SepaSperm® Solution 100%	95622	SED100G - 100	100ml
	95650	SED45G - 20x5	5x20ml
SepaSperm® 45% Upper Layer	95641	SED45G - 50	50ml
	95642	SED45G - 100	100ml
SepaSperm® 90% Lower Layer	95670	SED90G - 20x5	5x20ml
	95661	SED90G - 50	50ml
	95662	SED90G - 100	100ml



## SEPASPERM® WASH

Order Number	Code	Content
95730	SEDWSG - 20x5	5x20ml
95731	SEDWSG - 50	50ml
95732	SEDWSG - 100	100ml



## PVP

Order Number	Code	Content
95901	PVPD10 - 1	1x1ml
95910	PVPD10 - 0,2x5	5x0,2ml



## SPERM FREEZE

Order Number	Code	Content
95951	SFD2-10	10ml
95962	SFD2-20x5	5x20ml



## SPERM FREEZE G-PLUS

Order Number	Code	Content
95971	SFD4-10	10ml
95980	SFD4-1x5	5x1ml



# Not just a solution, the Best Start for Life



**KITAZATO®**

**HYPURE® OILS:**

## Hypure® Oils:

**Maintenance of a stable culture environment is advantageous when attempting to minimize environmental perturbations within the culture system that may negatively impact the developing embryo.**

- Pre-washed paraffin oils are used as protective barrier to prevent the quick evaporation of the medium and to keep specimens safe from external contaminants during in-vitro culture.
- Hypure® Oils, the pre-washed paraffin oils with less endotoxin levels in the market, play an important role maintaining the stability of the embryo culture system in terms of temperature, pH and osmolality.



## Paraffin or Mineral Oil?

Mineral and paraffin oils are commonly used to overlay IVF media to maintain their stability throughout embryo culture, but their quality can vary greatly.

**Mineral oil is less refined than paraffin oil, so, it contains more unsaturated bonds and is more sensitive to photooxidation and peroxidation<sup>(1)</sup>.**

High levels of peroxides in oils may have a detrimental effect on fertilization and embryo development, so the choice of culture oil is extremely important as it has a direct effect on clinical outcomes.

**Kitazato Hypure® oil is a high-quality paraffin oil.**

It is pre-washed with ultra-pure water to reduce toxicity and remove endotoxins, therefore improving your clinical outcomes.

Furthermore, washing and saturating oils with ultra-pure water reduces the evaporation rate of the media and the consequent change in osmolality.

1. Elder Key and Bw 2015.

## HYPURE® OILS

### HYPURE® OIL: HEAVY / LIGHT

Hypure® Oils are available with different density and viscosity to better suit laboratory needs. Since both are highly efficient in maintaining media stability, each laboratory could be able to make its own choice of which oil to use for each procedure.

### HYPURE® OIL: LIGHT

Hypure® Oil Light's fluidity provides an easier pipetting experience. Culture dishes need to equilibrate before use and with light oil this is achieved quicker than with heavy oils, due to a lighter viscosity and density.

Suited to be stored at room temperature, Hypure® Oil Light allows reaching an incubation temperature and equilibration in a shorter period of time.



### HYPURE® OIL: HEAVY

Hypure® Oil Heavy is the perfect choice for processes that require an oil overlay that allows easy handling of the culture dishes with a reduced risk of spills or droplet mixing.

Due to its higher density and viscosity, Hypure® Oil Heavy provides extensive protection and insulation of gametes and embryos, especially during an extended culture or when using time lapse and/or dry incubators.

## Main characteristics

- Pharmaceutical grade high-quality paraffin oil
- Prevents the evaporation of media allowing the usage of small volume droplets
- Maintains stable osmolality and pH in culture medium
- Glass or PETG bottles available in different sizes
- Hypure® Oil Light is double-washed, allows easy pipetting and a quicker equilibration
- Hypure® Oil Heavy is aimed for longer incubation periods in dry incubators

## HYPURE® OIL HEAVY

### THE BEST OPTION FOR CULTURE IN DRY INCUBATOR

**A comparative study assessed the performance of our Hypure® Oil Heavy versus most popular oils in the market. This study, performed by Embryotools, evaluates its manipulation, physicochemical properties, and its effects on the stabilization of culture conditions and embryo development.**

They have concluded that **Hypure® Oil Heavy:**



Its high viscosity **increases security** against medium droplets breaking/fusing and oil spillage during dish transportation/handling



Is suitable for **extended culture** without replacement of dish



Has the highest capacity to **prevent evaporation** when cultured in dry incubator



Provides **better embryo development** and cell count rates



Maintains **lowest osmolality** after seven days of culture



Maintains the **temperature and pH** of the drops after a long period of time outside the incubator

## Benefits of using Hypure® Oils Heavy in dry incubators

- **High osmolality** in embryo culture has been related to development arrest, changes in gene expression, epigenetic alterations, and **overall worse clinical outcomes**
- A **high viscosity oil** is the best alternative for dry incubators as it can maintain the stability of the embryo culture better
- It allows easy handling with a **reduced risk of spills or droplet mixing**
- It's highly recommended for **single step culture media** without dish replacement
- It **improves the overall success of IVF**, allowing routine elective single ET and thereby yielding ideal perinatal outcomes

**Dr. Marcos Meseguer**

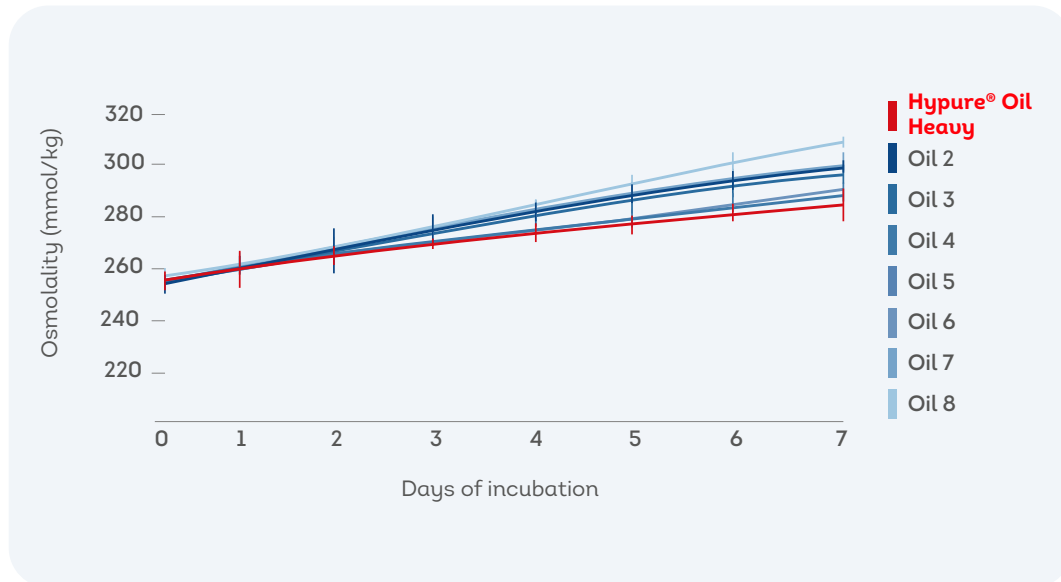
Senior Embryologist & Scientific Supervisor  
IVIRMA

# HYPURE® OILS

## HYPURE® OIL HEAVY:

### The Lowest Osmolality During Incubation in Dry Benchtop Incubator

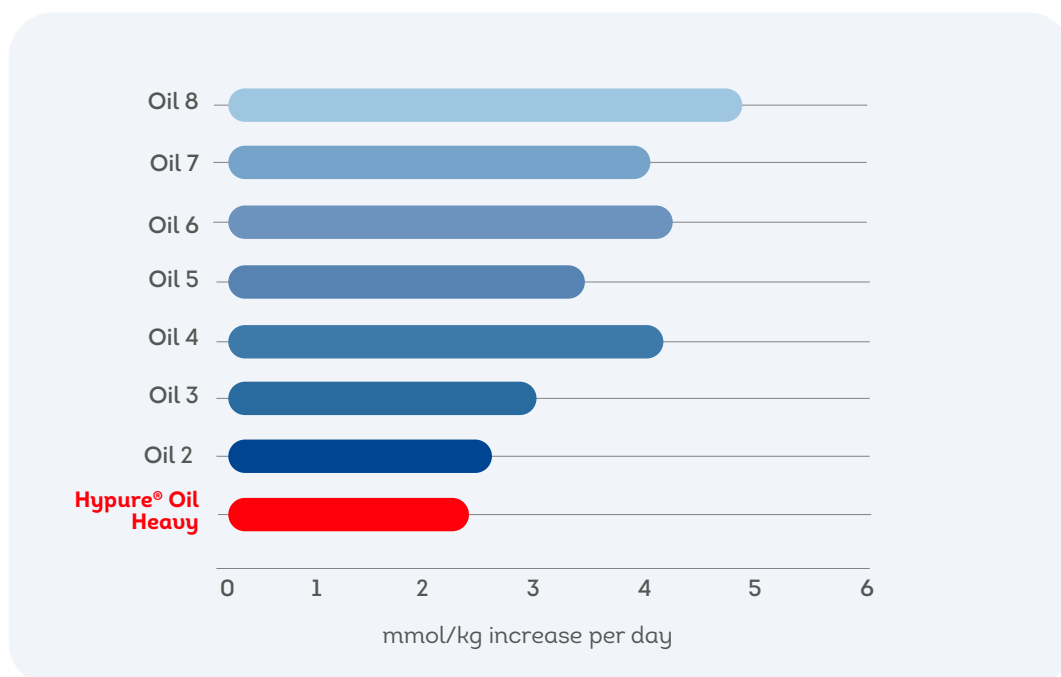
Hypure® Oil Heavy improves embryo development rates and cellular count and offers better pH stability and lower osmolality ( $273.0 \pm 5.7$  mmol/kg after seven days) than other commercial oils.



## HYPURE® OIL HEAVY:

### The Lowest Osmolality Increase per Day

The daily evaporation rate was significantly lower for Hypure® Oil Heavy (+2.224 mmol/kg/day) than for other oils.

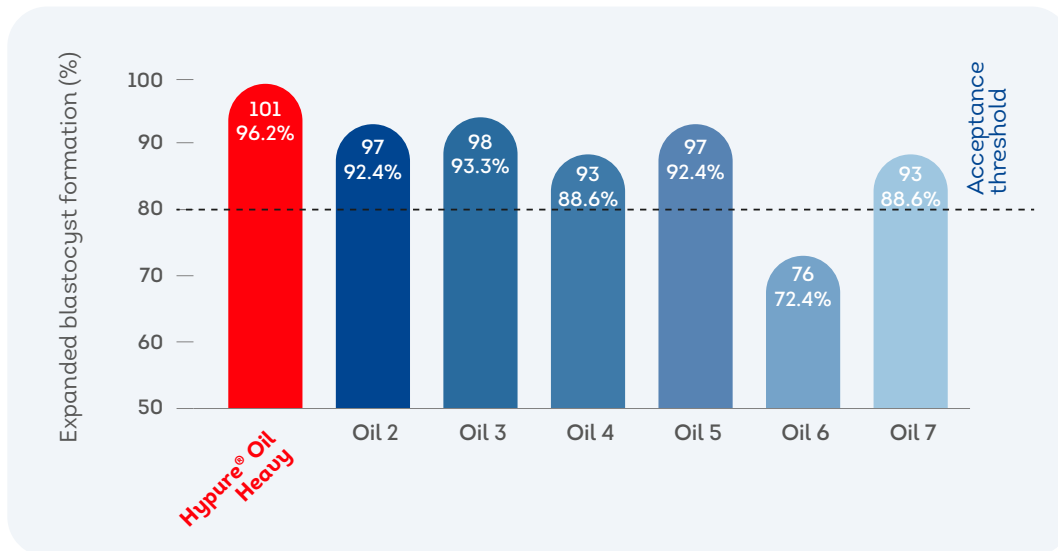




## HYPURE® OIL **HEAVY:**

### The Best Expanded Blastocyst Formation Rates

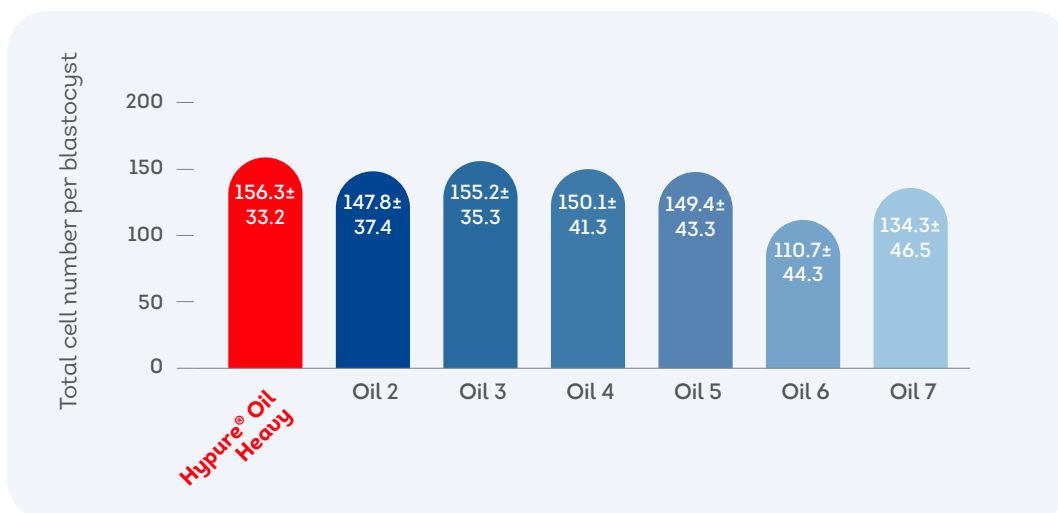
A 96.2% of the mouse embryos cultured under Kitazato Hypure® Oil Heavy reached the expanded blastocyst stage by the 120h end-point. Kitazato Hypure® Oil Heavy resulted in the highest number of blastocysts produced, compared to the rest of groups.



## HYPURE® OIL **HEAVY:**

### The Highest Total Cell Number per Blastocyst

The mouse blastocysts obtained after culture with Hypure® Oil Heavy showed the highest mean number of cells compared to the rest of groups. The total cell number per embryo is a quantitative measure of embryo quality.



Read the highlights about the Hypure® Oil Heavy study here:



# PRODUCT REFERENCES



## HYPURE® OIL

### Hypure® Oil **Heavy**

Order Number	Code	Specifications	Volume (ml)
96011	MOHVD-100P	PETG Bottle	100
96015	MOHVD-500P	PETG Bottle	500
96010	MOHVD-100	Glass Bottle	100
96014	MOHVD-500	Glass Bottle	500

### Hypure® Oil **Light**

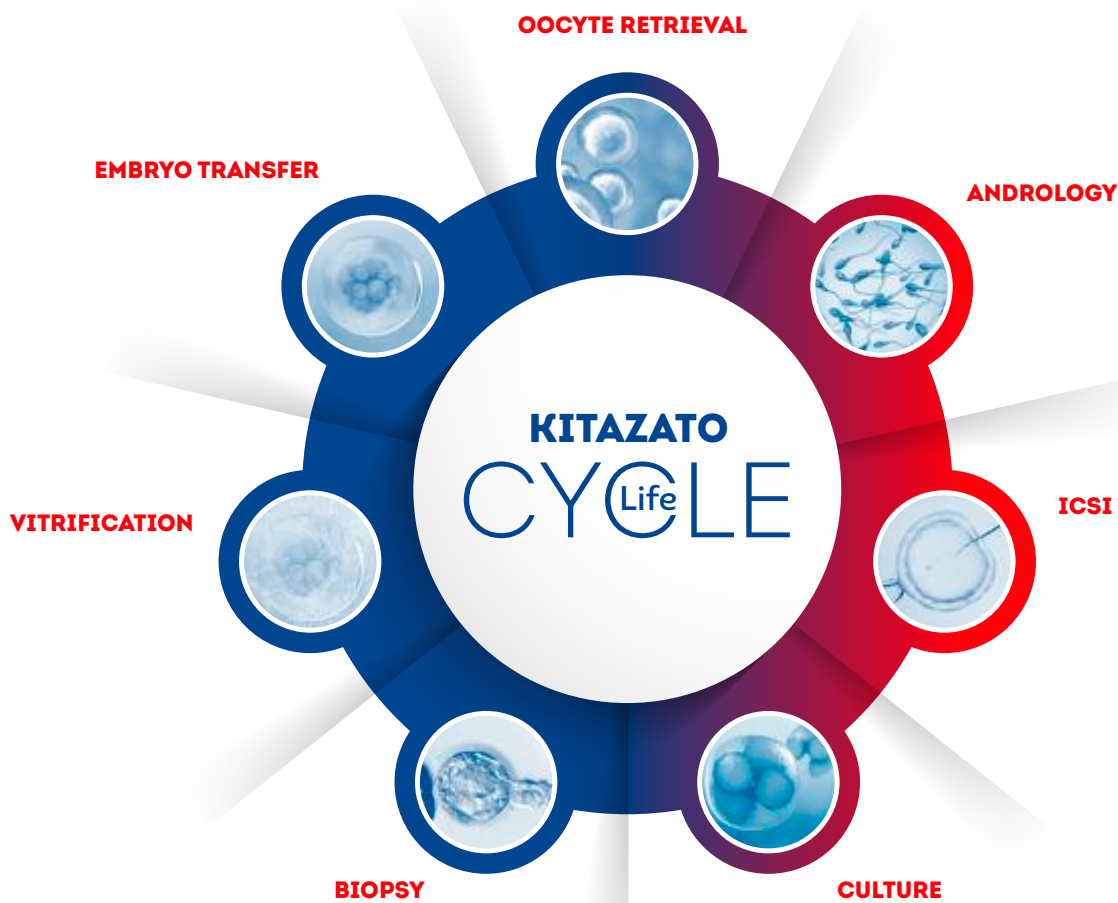
Order Number	Code	Specifications	Volume (ml)
96001	MOLHD-100P	PETG Bottle	100
96005	MOLHD-500P	PETG Bottle	500
96000	MOLHD-100	Glass Bottle	100
96004	MOLHD-500	Glass Bottle	500

# THE IVF CYCLE TO MAKE LIFE HAPPEN

Kitazato offers a broad selection of quality products that maximize success at every step of the IVF LifeCycle



Learn more about the products involved in each IVF procedure





**KITAZATO CORPORATION**  
100-10 Yanagishima, Fuji  
Shizuoka 416-0932 Japan  
Tel +81 545-65-7122  
Fax +81 545-65-7128  
contact@kitazato.co.jp

**KITAZATO | DIBIMED**  
C/ Jorge Comín, 3 Bajo 1-2  
46015 Valencia, Spain  
Tel +34 96 305 63 95  
Fax +34 96 305 63 96  
info@dibimed.com  
**Official Representative of Kitazato**

