

05

ART AND IVF

© Introduction to ART and IVF	-	43
© IVF Petri Dish	REF: 191	44
© IVF Multi-well Dish	REF: 192	45
© Pasteur Pipette	REF: 193	45



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ICONS

	Code No.		Qty in bag
	Material		Qty in box
	Volume capacity		Qty in case for glass tube
	Additive		Qty in case for PET tube
	Drop volume		Qty in case
	Outer dimension		Sterile by irradiation
	Colour		Sterile by ethylene oxide
	Specification		Detailed information
	Temperature range		

MATERIALS

PE =	Polyethylene	COC =	Cycloolefin copolymers
PET =	Polyethylene terephthalate	HIPS =	High impact polystyrene
HDPE =	High Density Polyethylene	TPE =	Thermoplastic Elastomer
LDPE =	Low Density Polyethylene	GPPS =	General purpose polystyrene
PP =	Polypropylene	PC =	Polycarbonate
PS =	Polystyrene	P.O.M. =	Polyoxymethylene
PVC =	Polyvinyl chloride		
ABS =	Acrylonitrile Butadiene Styrene		

Introduction to ART and IVF

Assisted Reproductive Technology (ART) mainly refers to In Vitro Fertilization (IVF), which is used to help infertile couples conceive, also known as test-tube baby. The oocytes and sperm are removed and placed in a test tube to fertilize them, and then the fertilized ovum is transferred back to the mother's uterus to develop into a fetus. IVF Petri dishes and culture plates are suitable for the collection of sperm and eggs and preparation of embryos during the IVF process. Specific applications include the preparation and cultivation of spermatozoa or embryos in vitro, gamete intrafallopian transfer (GIFT), intracytoplasmic sperm injection (ICSI), holding of oocytes and spermatozoa during fertilization, or other in vitro reproductive processes, etc.

1

Mature oocyte production

2

Remove oocytes from the ovary

3

Sperm supply

4

Oocytes and sperm are fertilized and incubated in IVF dish with manual intervention

5

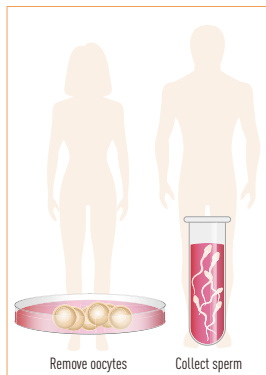
Fertilized oocyte (or embryo/blastocyst) implanted in the uterus

[Note: The above graphic is for reference only. If any doubt, please refer to the authoritative interpretation.]

IVF Key Processes

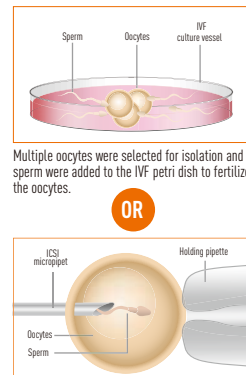
Step 1

Oocyte and sperm collection



Step 2

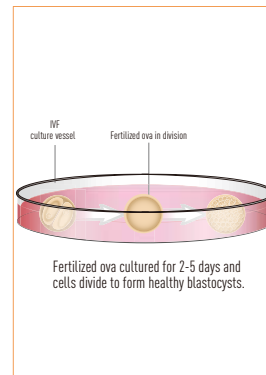
Two types of in vitro fertilization



Another type of fertilization: the process of fertilization through intracytoplasmic sperm injection (ICSI), single sperm injection directly into an oocyte.

Step 3

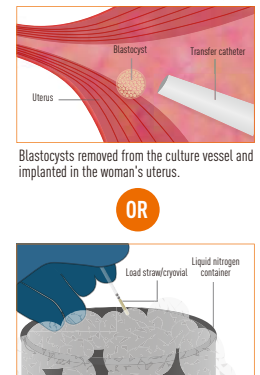
Fertilized ovum culture



Fertilized ova cultured for 2-5 days and cells divide to form healthy blastocysts.

Step 4

Implantation or cryostorage



Oocytes, sperms or blastocysts may be cryopreserved for later use.

[Note: The above graphic is for reference only. If any doubt, please refer to the authoritative interpretation.]

IVF Related Consumables



IVF Special petri dish/Multi-well plate



Micromanipulation pipette



Sperms/Oocytes collection container/Vessel



Sperms/Oocytes/Embryo Cryovial

IVF Petri Dish

- IVF Petri dishes are made of medical grade polystyrene and are suitable for the collection of sperm/oocytes and embryo preparation during in vitro fertilization. Specially for: microscopy, thawing and recovery, embryo culture.
- Made from medical grade raw material polystyrene in cleaning room.
- The products are scratch-free, of uniform thickness, without deformation, all dishes have an absolute flat bottom which guarantees all dishes receive the same bottom temperature for optimal manipulation and observation of oocytes and embryos.
- User-friendly design for easy gripping and other specialized operations with more safety.
- BPA free, Non-pyrogenic, non-cytotoxic, non-genotoxic, ensures embryo viability during complex processes.
- Individual peel pack, Sterilized by irradiation (10^{-6} SAL).

Multi-use dish

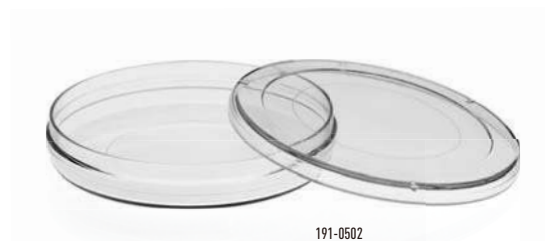
- ◇ For embryo thawing, embryos microdroplet culture, cumulus cell collection and washing, removal of granulosa cells, etc.
- ◇ Flat bottom, no optical distortion.
- ◇ Optional TC-treatment.
- ◇ Non-embryotoxic, non-pyrogenic, non-cytotoxic, BPA free.
- ◇ Individual peel pack, Sterilized by irradiation (10^{-6} SAL).



REF	MAT				
191-0351	PS	Ø35×11 (Dish)	Individual peel pack	500	High wall, with vents, wing grip
191-0501	PS	Ø50×10 (Dish)	Individual peel pack	400	With vents, wing grip
191-0601	PS	Ø60×10 (Dish)	Individual peel pack	300	Full grip ring

Microscope operation dish

- ◇ Microscopic observation of the morphology of the oocyte and cumulus cell, handling of the peripheral granulosa cell clusters of the oocyte, and single sperm intracytoplasmic injection fertilization operations.
- ◇ Flat bottom, no optical distortion.
- ◇ Promotion of medium droplet formation (Non TC-treated).
- ◇ Non-embryotoxic, non-pyrogenic, non-cytotoxic, BPA free.
- ◇ Individual peel pack, Sterilized by irradiation (10^{-6} SAL).



REF	MAT				
191-0502	PS	Ø50×8.6 (Dish)	Individual peel pack	400	No vents

Center well dish

- ◇ For the thawing of frozen embryos and the recovery of their biological activity.
- ◇ TC-treated to obtain an excellent hydrophilic surface.
- ◇ Non-embryotoxic, non-pyrogenic, non-cytotoxic, BPA free.
- ◇ Individual peel pack, Sterilized by irradiation (10^{-6} SAL).



REF	MAT				
191-0551	PS	Ø55×13.5 (Dish)	Individual peel pack	300	Center well, with vents
191-0552	PS	Ø55×13.5 (Dish)	Individual peel pack	300	Center Well Dish with 2 compartments, with vents, wing grip

IVF Multi-well Dish

- IVF multi-well dishes are made of medical grade virgin polystyrene and are used for thawing and recovery of sperms and oocytes, blastocyst culture, and cleavage stage embryo culture.
- Made from medical grade polystyrene in class 100,000 cleaning room.
- The products are scratch-free, of uniform thickness, without deformation, all dishes have an absolute flat bottom. When placed on a heated stage, all dishes receive the same bottom temperature.
- User-friendly design for easy gripping and other specialized operations with more safety
- TC-treated makes dishes having a consistent hydrophilic surface, which contributes to normal growth and development.
- Non-pyrogenic, non-cytotoxic, non-genotoxic, BPA free. ensures embryo viability during complex processes
- Individual peel pack, Sterilized by irradiation (10^6 SAL).

IVF 4-Well Dish



192-0041

IVF 5-Well Dish







192-0051

IVF 6-Well Dish



192-0061





REF	MAT				
192-0041	PS	4-well, flat bottom, well volume: 1.8mLx4	Individual peel pack	200	
192-0051	PS	5-well, flat bottom, well volume: 1.5mLx5	Individual peel pack	200	
192-0061	PS	6-well, flat bottom, well volume: 0.4mLx6	Individual peel pack	200	With Straw Holder

Pasteur Pipette

- The Pasteur pipette features a smooth surface with slender walls and a flat mouth, made from high-quality lead-free glass.
- Customizable lengths from 150mm to 230mm, with the tube outer diameter of 7 ± 0.2 mm and the capillary outer diameter of 1.4 ± 0.1 mm.
- Ideal for in vitro fertilization procedures, these pipettes can be used to remove granulosa cells around the fertilized egg or for transferring oocytes/embryos.



193-2301

REF	MAT	 mm			
193-2301	Lead-free glass	230	20	200	STERILE R

*The dimensions only for reference. For accurate data, consult customer service.