



**ARINA**  
**RAYAN**

**BIOTECHNOLOGY CO.**

"Our aim is to help you  
run a first-rate IVF clinic that  
consistently delivers outstanding results."

## It starts with our people

Ravan Sazeh, The ART Knowledge-Based Company, as the main subsidiary of Arina Rayan Biotechnology Co, developed to meet the industry needs for high quality, specially designed ART products. We have considerable knowledge of the IVF field, with highly qualified and experienced team. We also collaborate closely with many external expert partners.

Together, we have developed these products to offer you the best quality and performance. Also we have a well-established distribution network to assure you quality, customer service, and **Fresh Delivery of Products**.

## In close relationship with our customers

What makes our team outstanding is not only their commitment and dedication to scientific research, but also their openness to communication in the industry by encouraging multiple center testing and research collaboration, and their willingness to help with clinical applications and testing. **Our team is your team**, and open to work with you and answer any question you might have on the scientific background or clinical use of **Fertilite & RS MEDICAL** products. All customer cases are handled by a group of experts who determine how specific needs can be met and how the input can be used to further improve our products.

## Quality that makes a difference

Our deep insight into both embryo physiology and how to run an IVF clinic, helps us to design user-friendly products that fully meet the functional needs of performing ART. This insight has also guided us in developing sophisticated highly relevant testing of our products. We have unique competence in testing, which is performed in-house to maintain full control and to ensure that **we can carefully track the history of each released product**.

To us, quality is being passionate about all the details leading up to the most supportive products in the most protective environment for the most viable embryo. High pregnancy rates depend on numerous factors, some of which are beyond human control; that is why we are devoted to control everything that can be controlled in order to achieve high success rates.



# TABLE OF CONTENTS

<p><b>02</b> ● <b>Holding &amp; Flushing</b> HTF Medium w/HEPES Ham's F10 Medium w/HEPES</p> <p><b>Embryo Culture &amp; Fertilization</b> G1 Medium G1<sup>+</sup> Medium</p> <p><b>03</b> ●</p> <p><b>04</b> ● G2 Medium G2<sup>+</sup> Medium</p> <p>Single Culture Medium Single<sup>+</sup> Culture Medium</p> <p><b>05</b> ●</p> <p><b>06</b> ● HTF Medium <b>Embryo Transfer Medium</b> EmbryoTransfer Medium</p> <p><b>PGD Biopsy Medium</b> PGD Medium PGD<sup>+</sup> Medium</p> <p><b>Protein Supplement</b> HSA 10%</p> <p><b>08</b> ● <b>Sperm Preparation</b> Gradient 100% Gradient 90%</p> <p>Gradient 45%</p> <p><b>Sperm Washing Medium</b> SpermWashing Medium</p> <p><b>09</b> ●</p> <p><b>10</b> ● Ham's F10 Medium <b>ICSI</b> Hyaluronidase</p> <p>PVP 10% PVP 7%</p> <p><b>Cryopreservation</b> SpermFreezing Medium</p> <p><b>11</b> ●</p>	<p><b>ART OIL</b> Light Mineral Oil</p> <p><b>Embryo &amp; Oocyte Vitrification Set</b> CryoTouch®</p> <p><b>12</b> ●</p> <p><b>13</b> ● Vitrification Solutions Thawing Solutions</p> <p>CryoCane Goblet CryoTag</p> <p><b>14</b> ●</p> <p><b>15</b> ● <b>ICSI Micro Tools</b> ICSI Injection Pipette ICSI Holding Pipette</p> <p>Blastomere Biopsy Pipette <b>Sperm Assay Kits</b> SCMA Kit</p> <p><b>16</b> ●</p> <p><b>17</b> ● SDFA Kit</p> <p><b>CO2 Incubator</b> In-Line Filter IncuGuard Solution</p> <p><b>18</b> ●</p> <p><b>19</b> ● <b>IVF Clinic Management Software</b></p> <p><b>Flowchart</b> (Perspective to ART Culture)</p> <p><b>20</b> ●</p>
--	--

Note: For a full and detailed recommended protocol of use for products, please read the Instruction For Use.



**Leading the Path...**



# Holding & Flushing

## HTF Medium w/HEPES

HTF Medium w/HEPES is designed to be used for oocyte retrieval and washing, holding during ICSI procedures, and for embryo holding during assisted hatching at day 3.

HTF Medium w/HEPES is a HEPES-buffered formulation of HTF.

HTF Medium w/HEPES provides an excellent environment for holding and manipulation of gametes and embryos outside the incubator.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 14 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Gentamicin Sulfate	Phenol Red	HEPES

## Ham's F10 Medium w/HEPES

Nutrient Mixture Ham's F-10 Medium w/HEPES is designed to be used for oocyte retrieval and washing, and sperm washing and handling.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 7 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Calcium Chloride	Penicillin	Thymidine
Potassium Chloride	Potassium Phosphate	Vitamins
Sodium Chloride	Sodium Bicarbonate	Sodium Phosphate
Zinc Sulfate	D-Glucose	Magnesium Sulfate
Linoleic Acid	Phenol Red	Sodium Pyruvate
Thymidine	Amino Acids	Ferrous Sulfate
Calcium Lactate	Pyruvic Acid	HEPES
L-Glutamine	Streptomycin	

# Embryo Culture & Fertilization

## G1 Medium

G1 Medium is designed as a sequential medium for all embryo culture from Day 1 to Day 3.

G1 Medium can also be used successfully as a:

- Holding human cumulus-oocyte complexes prior to conventional fertilization or ICSI.
- Conventional In-Vitro Fertilization.
- Embryo transfer medium.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red

## G1<sup>+</sup> Medium

G1<sup>+</sup> Medium is designed as a sequential medium for all embryo culture from Day 1 to Day 3.

G1<sup>+</sup> Medium can also be used successfully as a:

- Holding human cumulus-oocyte complexes prior to conventional fertilization or ICSI.
- Conventional In-Vitro Fertilization.
- Embryo transfer medium.

**With HSA. Ready to use.**

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red
HSA		

## G2 Medium

G2 Medium is designed as sequential medium for all embryo culture from Day 3 to the blastocyst stage.

G2 Medium can also be used successfully as a:

Blastocyst medium following culture from Day 1 to Day 3 in HTF.  
Embryo transfer medium.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red

## G2<sup>+</sup> Medium

G2<sup>+</sup> Medium is designed as sequential medium for all embryo culture from Day 3 to the blastocyst stage.

G2<sup>+</sup> Medium can also be used successfully as a:

Blastocyst medium following culture from Day 1 to Day 3 in HTF.  
Embryo transfer medium.

**With HSA. Ready to use.**

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red
HSA		



# Single Culture Medium

SingleCulture Medium is designed as ONE medium for all embryo culture from Day 1 to the blastocyst stage.

SingleCulture Medium can also be used successfully as a:

- Blastocyst medium following culture from Day 1 to Day 3 in HTF.
- Holding human cumulus-oocyte complexes prior to conventional fertilization or ICSI.
- Conventional In-Vitro Fertilization. Embryo transfer medium.

Special formulation to meet all nutritional needs for each stage of development.  
Optimum environment with no osmolality and pH shifts and shocks.  
Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.  
Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red

# Single+ Culture Medium

Single+Culture Medium is designed as ONE medium for all embryo culture from Day 1 to the blastocyst stage.

Single+Culture Medium can also be used successfully as a:

- Blastocyst medium following culture from Day 1 to Day 3 in HTF.
- Holding human cumulus-oocyte complexes prior to conventional fertilization or ICSI.
- Conventional In-Vitro Fertilization. Embryo transfer medium.

### With HSA. Ready to use.

Special formulation to meet all nutritional needs for each stage of development.  
Optimum environment with no osmolality and pH shifts and shocks.  
Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.  
Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red
HSA		

# HTF Medium

HTF Medium is designed for the culture of cleavage-stage and early human embryos development (Day 1 to Day 3).

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Gentamicin Sulfate	Phenol Red	

## Embryo Transfer Medium

# Embryo Transfer Medium

Embryo Transfer Medium is developed exclusively for embryo transfer.

**With HSA. Ready to use.**

Embryo Transfer is a product with a proven implantation-enhancing effect. It has the basic composition of a rich blastocyst culture medium and contains a high concentration of hyaluronan and human albumin. It can be used for transfer of all embryo developmental stages, including blastocysts after assisted hatching, biopsy and cryopreservation.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Amino Acids	Gentamicin Sulfate	Phenol Red
HSA	Hyaluronan	

# PGD Biopsy Medium

## PGD Medium

PGD Medium is a unique formulation designed to maintain embryos during the biopsy procedure, allowing ease in removal of blastomere.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Sucrose
Potassium Phosphate	Amino Acids	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Phenol Red	HEPES	Gentamicin Sulfate

## PGD<sup>+</sup> Medium

PGD<sup>+</sup> Medium is a unique formulation designed to maintain embryos during the biopsy procedure, allowing ease in removal of blastomere.

**With HSA. Ready to use.**

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 10 weeks from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Sucrose
Potassium Phosphate	Amino Acids	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
Phenol Red	HEPES	Gentamicin Sulfate
HSA		

# Protein Supplement

## HSA 10%

HSA 10% is to be used as a protein source supplement for all culture media products.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 12 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition
Human Serum Albumin

# Sperm Preparation

## Gradient 100%

Gradient 100% is designed for use as a gradient for sperm preparation. Gradient 100% is an optimized stock (100%) solution for all gradient separation.

Removes immotile sperms, dead cells, sperm with abnormal DNA, debris, seminal plasma, oxygen radicals and leukocytes.

Remarkable sperm recovery, motility index and survival.

Formulated to lessen pH and osmolality shifts during the transfer of sperm samples to the next medium, to avoid premature hyper-activation, and to improve fertilization.

Provides glucose as an energy substrate to maintain normal cell metabolism and sperm function. Easy removal when rinsed.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 24 months from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 28 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
HEPES		

## Gradient 90%

Gradient 90% is a ready-to-use, lower layer, 90% dilution of Gradient 100% in sperm washing, designed for use as a gradient for sperm preparation.

Saves preparation time while preserving the proven benefits of using a gradient medium.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 24 months from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 28 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
HEPES		

# Gradient 45%

Gradient 45% is a ready-to-use, upper layer, 45% dilution of Gradient 100% in sperm washing, designed for use as a gradient for sperm preparation.

Saves preparation time while preserving the proven benefits of using a gradient medium.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 24 months from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 28 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
HEPES		

## Sperm Washing Medium

### Sperm Washing Medium

SpermWashing Medium is designed for sperm preparation and for washing the sperm pellet recovered from Gradient or other density centrifugation gradient. SpermWashing Medium removes any particles of colloidal silica that may be present in the sperm pellet after centrifugation.

**High quality sperm preparation wash. Ready to use.**

May be used to dilute Gradient 100% stock solution, and for sperm washing and swim-up procedures.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 6 months from the date of production when stored unopened at 2-8°C and protected from light and freezing. Can be used safely up to 7 days after opening.



Composition		
Sodium Chloride	Potassium Chloride	Calcium Chloride
Potassium Phosphate	Magnesium Sulfate	Sodium Bicarbonate
Glucose	Sodium Lactate	Sodium Pyruvate
HEPES	Phenol Red	Gentamicin Sulfate
HSA		

## Ham's F10 Medium

Ham's F10 Medium is designed for sperm preparation and for washing the sperm pellet recovered from Gradient or other density centrifugation gradient. Ham's F10 Medium removes any particles of colloidal silica that may be present in the sperm pellet after centrifugation.

Ham's F-10 is well suited for a wide variety of mammalian cells when used with a serum supplement.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 6 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Calcium Chloride	Penicillin	Thymidine
Potassium Chloride	Potassium Phosphate	Vitamins
Sodium Chloride	Sodium Bicarbonate	Sodium Phosphate
Zinc Sulfate	D-Glucose	Magnesium Sulfate
Linoleic Acid	Phenol Red	Sodium Pyruvate
Thymidine	Amino Acids	Ferrous Sulfate
Calcium Lactate	Pyruvic Acid	Streptomycin
L-Glutamine		

## ICSI

**Hyaluronidase** Hyaluronidase is designed to facilitate the removal of cumulus and corona cells from the oocyte prior to ICSI or other micromanipulation procedures.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 6 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Sodium Chloride	Sodium Bicarbonate	Phenol Red
Potassium Chloride	Glucose	Gentamicin Sulfate
Calcium Chloride	Sodium Lactate	HEPES
Potassium Phosphate	Sodium Pyruvate	HSA
Magnesium Sulfate		

# PVP 10%

PVP 10% is designed to restrict sperm motility in order to allow the pickup of individual sperm for ICSI.

PVP 10% is a high quality clinical grade product.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 9 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Sodium Chloride	Sodium Bicarbonate	Phenol Red
Potassium Chloride	Glucose	Gentamicin Sulfate
Calcium Chloride	Sodium Lactate	HEPES
Potassium Phosphate	Sodium Pyruvate	HSA
Magnesium Sulfate		

# PVP 7%

PVP 7% is designed to restrict sperm motility in order to allow the pickup of individual sperm for ICSI.

PVP 7% is a high quality clinical grade product.

Consistent testing and performance results.

Shelf Life: 9 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Sodium Chloride	Sodium Bicarbonate	Phenol Red
Potassium Chloride	Glucose	Gentamicin Sulfate
Calcium Chloride	Sodium Lactate	HEPES
Potassium Phosphate	Sodium Pyruvate	HSA
Magnesium Sulfate		

## Cryopreservation

### Sperm Freezing Medium

SpermFreezing Medium is a single step, HEPES-buffered, cryoprotectant solution designed for the cryopreservation of human sperm.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 18 months from the date of production when stored unopened at 2-8°C and protected from light and freezing.



Composition		
Sodium Chloride	Potassium Chloride	Magnesium Sulfate
Sodium Phosphate	Sodium Bicarbonate	Glucose
Calcium Lactate	Glycine	HEPES
HSA	Sucrose	



with hope in hand,  
dreams do come true...





# ART OIL

## Light Mineral Oil

Light Mineral Oil is ideal for oil overlay use, microdrop culture and micromanipulation. It is designed to protect the human embryos from any environmental effects and help maintain pH, temperature and osmolality.

Premium-quality light mineral oil specially designed for IVF and ICSI.

Protects against temperature fluctuation.

Stabilizes pH and reduces evaporation during IVF and ICSI procedures.

Thoroughly washed to remove the endotoxins and harmful chemicals.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 2 years from the date of production when stored unopened and protected from light.



Composition
High purity LIGHT mineral oil, washed and sterile filtered

## Embryo & Oocyte Vitrification Set

### CryoTouch<sup>®</sup>

**CryoTouch<sup>®</sup>** is a vitrification device consisting of a fine strip of transparent film attached to a plastic handle, resistant to liquid nitrogen. Its design allows the loading of specimens for vitrification with a minimum volume, which in turn lead to the best survival rates.

**CryoTouch<sup>®</sup>** is the smartest choice for achieving the best clinical successful results.

Consistent testing and performance results.

Allows up to 4 specimens to be loaded per device.

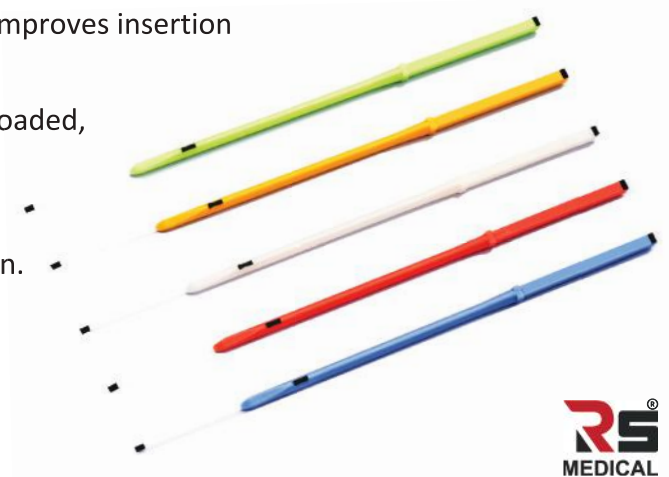
Minimum thickness aids the fast cooling rate.

Conical joint between the strip of film and the plastic body improves insertion and prevents abrupt entry.

Black marks to know on which side the specimens must be loaded, especially useful during warming.

Available in packs of 12 units.

Manufactured in malleable plastic resistant to liquid nitrogen.



# Vitrification Solutions

For vitrification of oocytes and embryos.

The composition of the Vitrification Solutions is entirely synthetic.

Prevents the risk of contamination, increases the rate of survival in all stages of embryos and reduces mechanical stress during warming.

It provides greater safety in the process, improving the protection of the cellular membranes.

The incorporation of gentamicin prolongs the sterility of the media, guaranteeing greater safety in handling the solutions.

Can be used with ideal freezing device of your choice (**CryoTouch®**).

Two-step fast freezing with high survival rate.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 6 months from the date of production when stored unopened at 2-8°C and protected from light.



# Thawing Solutions

For warming of oocytes and embryos.

The composition of the Thawing Solutions is entirely synthetic.

Three-step gradual re-hydration.

Requires minutes to perform not hours (in comparison to slow freeze method).

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

Shelf Life: 6 months from the date of production when stored unopened at 2-8°C and protected from light.



# CryoCane

CryoCane is a storage device designed for safely storing cryovials and straws inside goblets. Unlimited and unique ID combinations can be made for stored samples together with different colors of goblets and colored tags. This great feature helps to differentiate each patient's samples in LN2 tanks which minimizes mix-ups.

The whole range of canes is made of aluminum and safe to use for ART and other cryo applications.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.



# Goblet

Color-coded plastic goblets are a method of storing and transporting biological materials in straws within liquid nitrogen tanks, coupled with an aluminum cane.

High density polyethylene cylindrical goblet fits in 13mm CryoCanes.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.

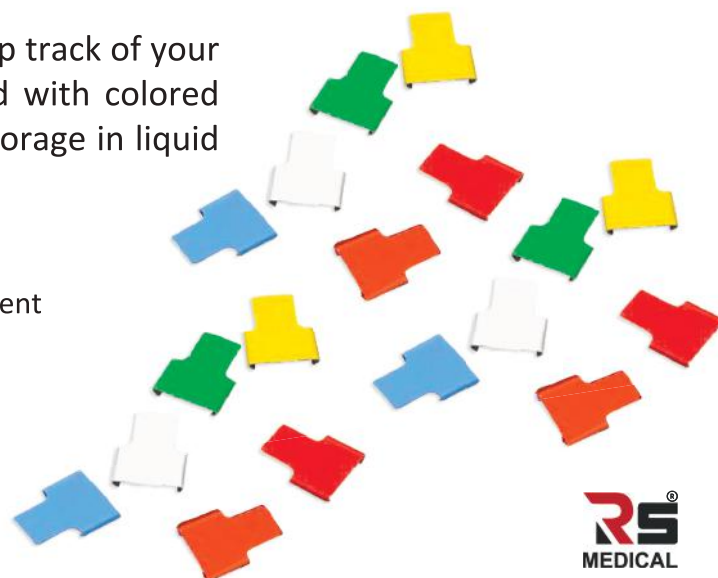


# CryoTag

Our unique identification tags make it easy to keep track of your inventory of CryoCanes. The tags can be marked with colored markers and they remain firmly in place during storage in liquid nitrogen.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.



## ICSI Injection Pipette

**ICSI Injection Pipette is designed to provide clinicians smooth control of sperm injection and cytoplasm suction.**

**Features:**

- Less damage to oocyte.
- Likelihood of increased fertilization and embryo development.
- Multiple sperm can be loaded.
- May reduce cytoplasm drawn back when breaking oocyte membrane.
- Manufactured under the supervision of experts in ART and micromanipulation.
- Hand-crafted by highly trained technicians in a controlled environment.
- Individually examined for quality assurance.
- Remains sterile until package is unsealed – guaranteed sterility.
- Color-coded case.
- Consistent testing and performance results.
- High quality of manufacturing, ingredients and stringent quality control.



## ICSI Holding Pipette

**ICSI Holding Pipette is designed to provide clinicians smooth control of oocyte or embryo when performing ICSI or other micromanipulation procedures.**

**Features:**

- With a rounded tip.
- For use with micromanipulator.
- As a result of optimal lumen diameter and Smooth edges, oocytes and embryos can be handled with minimal trauma.
- Manufactured under the supervision of experts in ART and micromanipulation.
- Hand-crafted by highly trained technicians in a controlled environment.
- Individually examined for quality assurance.
- Remains sterile until package is unsealed – guaranteed sterility.
- Color-coded case.
- Consistent testing and performance results.
- High quality of manufacturing, ingredients and stringent quality control.



# Blastomere Biopsy Pipette

ICSI Blastomere Biopsy is designed to provide clinicians smooth control of blastomere removal during embryo biopsy process.

## Features:

Our biopsy pipette come in two versions, flat and beveled. Both versions have smooth edges and parallel walls, providing a linear flow of fluids.

For use with a micromanipulator.

Manufactured under the supervision of experts in ART and micromanipulation.

Hand-crafted by highly trained technicians in a controlled environment.

Individually examined for quality assurance.

Remains sterile until package is unsealed – guaranteed sterility.

Color-coded case.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.



## Sperm Assay Kits

### SCMA Kit

Sperm chromatin maturation is essential for successful fertilization, embryo development, and normal pregnancy. To assess the sperm nuclear maturity in the exploration of male infertility, we suggest to use the SCMA kit; since the use of more sophisticated techniques such as SCMA provides more accurate and specific results in the evaluation of male factor infertility.

During spermatogenesis, sperm chromatin undergoes structural changes and results in a high condensation. This nuclear compaction would be useful as a predictor of sperm fertilization capacity and pregnancy outcome.

Significant reduction of evaluation time.

Increasing accuracy of evaluation.

Consistent testing and performance results.

High quality of manufacturing, ingredients and stringent quality control.



# SDFA Kit

SDFA Kit is an easy to operate in vitro diagnostic kit that allows the measurement of DNA fragmentation in a quick and reproducible process.

SDFA Kit allows for an improved evaluation of sperm quality in compare to conventional semen analysis that only studies spermatozoa concentration, motility and morphology but not one of the most important parameters, the integrity of the DNA molecule. SDFA Kit facilitates decision-making for medical professionals regarding which ART technique is most appropriate for each couple.

SDFA Kit is based on a controlled DNA denaturation process to facilitate the subsequent removal of the proteins contained in nucleus. In this way, normal spermatozoa create halos formed by loops of DNA at the head of the sperm, which are not present in those with damaged DNA.

Our SDFA kit allows the visualization of spermatozoa that contain highly degraded DNA compared to other types of less aggressive damage. This fact is of great importance in the diagnosis and monitoring of varicocele.

- Highly contrasted images of halos.
- The results can be observed precisely using conventional microscopy without any other special instruments.
- The pre-coated slide can be stored at room temperature and should be kept away from moisture.
- Components of kits in different batches can be exchanged in use when they are within the period of validity.
- Consistent testing and performance results.
- High quality of manufacturing, ingredients and stringent quality control.

Each kit contains below items to perform 25 tests:

Micro Gel: 50 microtubes

Pre-coated Slides: 25 pcs

Solution A

Solution B

Solution C

Solution D



# CO2 Incubator

Knowledge-Based Product

With Exclusive  
Remote Control  
Software.



CO2 incubators are widely used in life science laboratories to grow and maintain cell cultures for clinical and research purposes to provide it with the optimum temperature, moisture (sterile environment) and to maintain optimum pH. When the media contains carbonate buffer, the CO2 gas from the cylinder is let into the incubator in such a way that the pH remains constant.

- Water tank for humidity in the chamber.
- LED microcomputer controller displays temperature and CO2 concentration.
- Equipped with LCD touch screen, the incubator can save data in real time.
- Equipped with UV lamp for sterilizing.
- High quality sensor for accurate CO2 concentration.
- The working chamber adopts round angle structure, easy to clean.
- Three wall layers and circulator fan.
- Central troubleshooting.
- Simple and accurate calibration.
- Independent safety thermostat.
- Audible and visual sensor failure warning.
- Silicone tape around the door.
- Three adjustable inner trays.
- Reducing energy consumption.
- High rate of temperature renewal.
- Element with stainless steel protection.
- Ability to adjust CO2 from zero to 20%.
- Isotherms in different parts of the device.



## Accessories:

### In-Line Filter

An inline filter used in between CO2 incubator and a gas source to purify incoming CO2, N2 and premixed gas against volatile organic compounds (VOCs), chemically active compounds (CACs), microorganisms, dust and other harmful compounds and particles.

Activated carbon filter formed by granola.

Can be used with any CO2 incubator.

For pressures up to 1.5 bar.

Excellent adsorption capacity and very low pressure loss.

For best results we recommend to change the filter every 3 months (the maximum recommended useful life is up to 6 months).



### RS IncuGuard

IncuGuard Solution is a highly active, non-volatile, non-corrosive, and non-toxic treatment for preserving water quality and preventing contamination in the water pan of a cell culture incubator. IncuGuard Solution has fungicidal properties, meaning it is effective against a broad spectrum of common lab contaminants.



# IVF Clinic Management Software

There are many challenges to overcome managing an IVF clinic. The biggest one is the number of patients and IVF laboratory data. Therefore, transitioning from paper charts to a digital solution is a smart strategy. Our IVF CMS is specifically designed for fertility treatment practices to keep patient data organized and meet quality requirements to provide the best care. You'll find that it is a great choice for making IVF lab data a lot easier to access, by establishing communication between administration and your IVF lab.

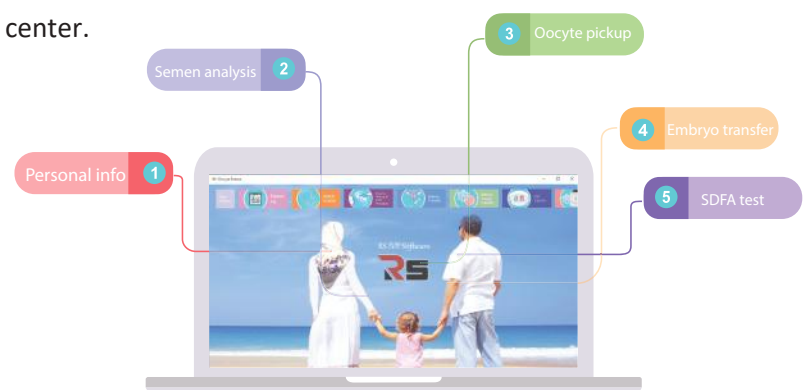
The main data types that IVF CMS manages are: In Vitro Fertilization (IVF) and frozen embryo transfer (FET) cycles, medical image data (ultrasounds, embryos and more), pre-implantation genetic (PGT) testing results, and embryo cryostorage inventory.

IVF CMS helps your management team carry out a strategic planning process and provide new opportunities for IVF clinics to cut costs, increase profits, and improve IVF lab quality processes.

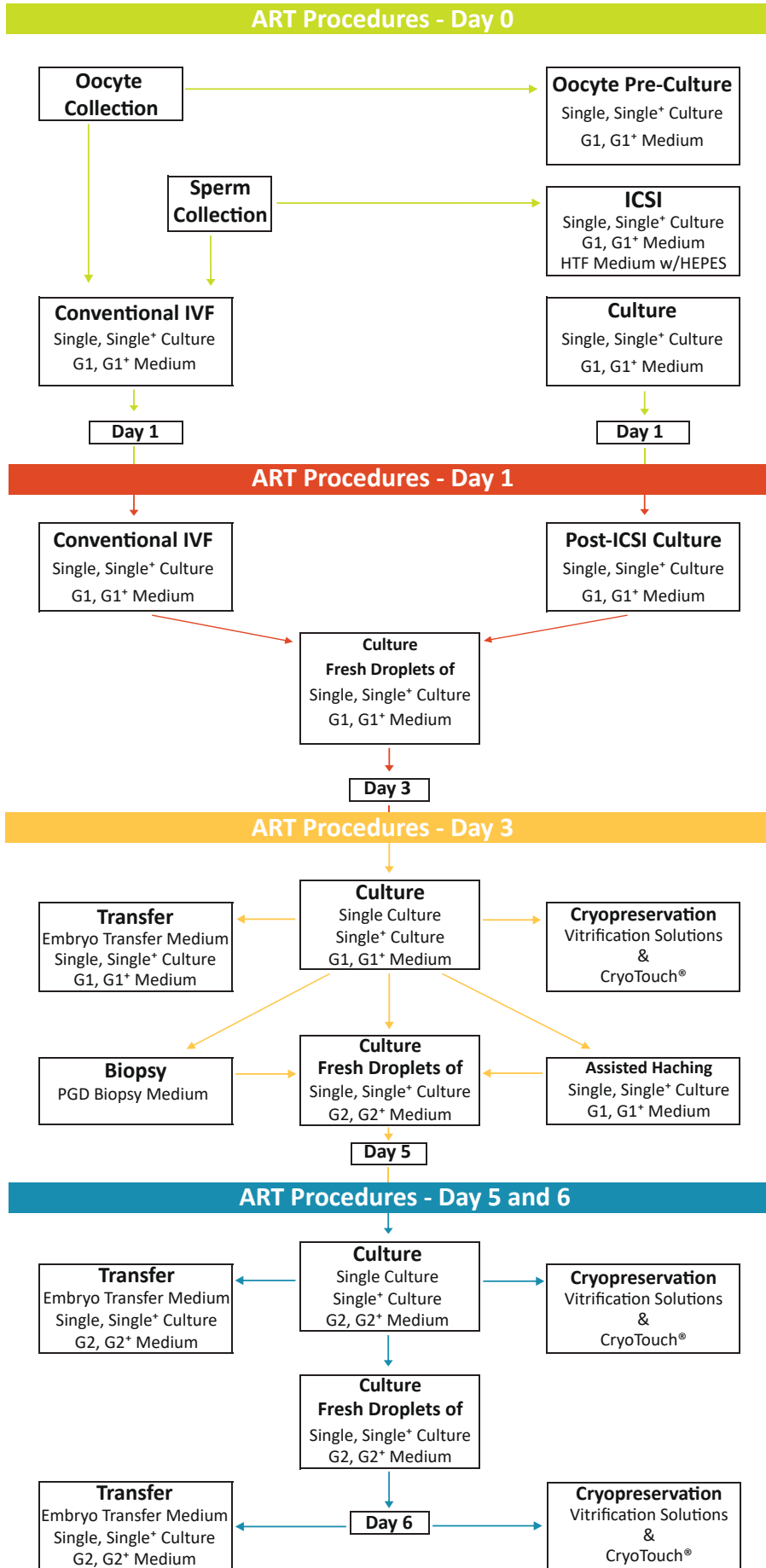


## Features:

- KPI monitoring and evaluation.
- Provides a consistent interface, which is intuitive and user-friendly.
- Helps determine the timely sequence of events and identification of delays that might cause compromise of any of the steps in the patient management and treatment processes.
- Quick search and access to details.
- Helps IVF centers GO PAPERLESS with complete electronic patient record.
- Ability to connect to the main reception and automation system of the center.
- Infertility and donation counseling.
- Record and track the pregnancy results and rates.
- Detailed patient demographics (complete female/male details).
- Progress and operation notes (physicians/nurses).
- Detailed treatment history before show up in the center.
- Semen analysis (print ready reports).
- Sperm cryopreservation (sperm freezing).
- Combined Reports:
  - ET + pregnancy result
  - FET + pregnancy result
  - Semen analysis + pregnancy result
  - SDFA + pregnancy result



# The Integrated Perspective to ART Culture



Note: For a full and detailed recommended protocol of use for products, please read the Instruction For Use.



**ARINA RAYAN**  
Biotechnology Co.

No 246, Mokhberi Ave,  
Central Jannat Abad,  
Tehran, Iran  
Tel: (+98) 21 444 150 83

**RAVAN SAZEH Co.**

No 61, Noavari St,  
Pardis Technology Park,  
Tehran, Iran  
Tel: (+98) 21 76 25 0165-9





Our commitment to facilitate and support the best outcome for IVF clinics is a mainspring in our work.

