

Product Catalog

Seaforia™ Sperm Separation System



LotusBIO®



Content:

About Seaforia™

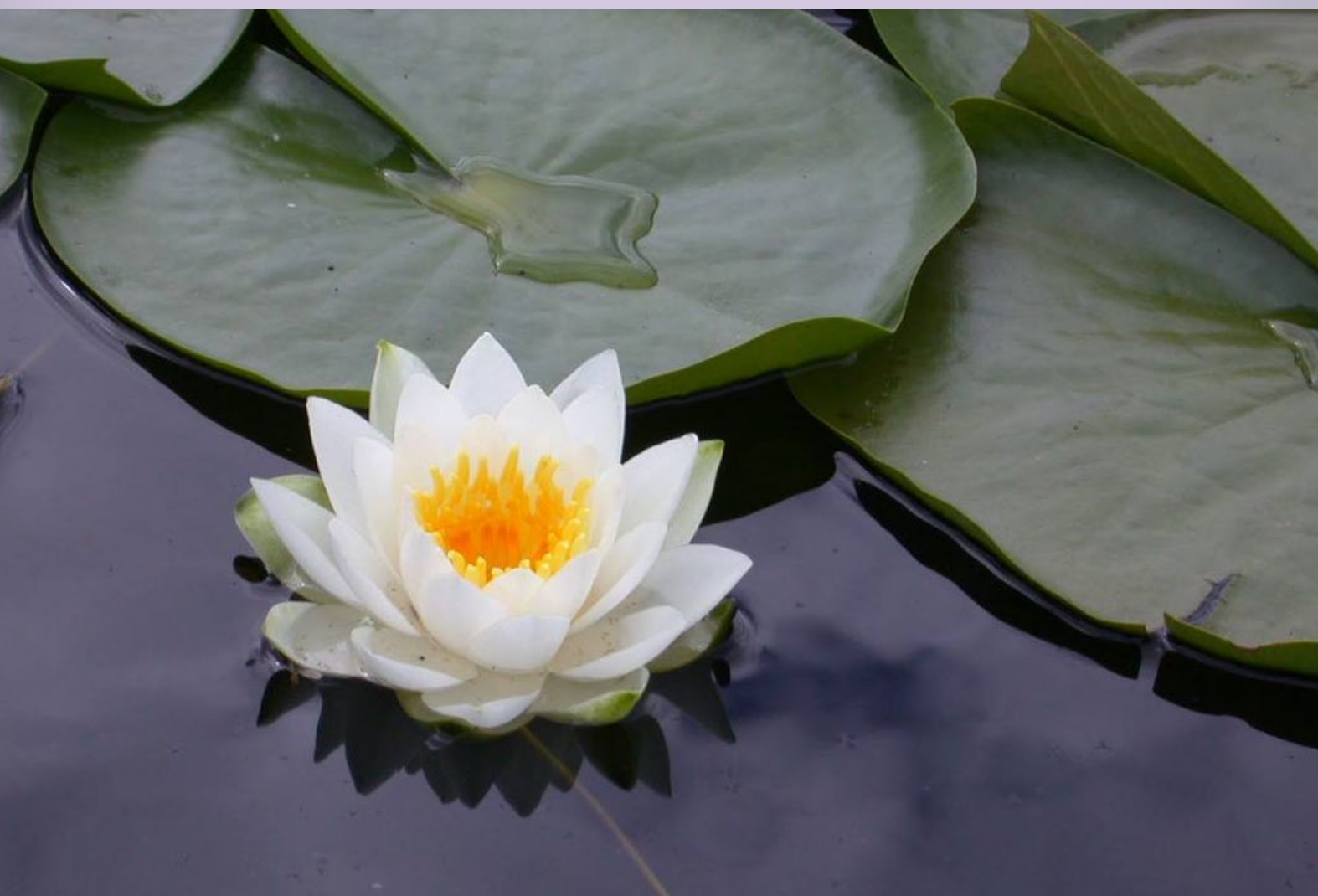
Introduction	4
Seaforia™ Sperm Seaparation System	6
Seaforia™ procedure	8
Seaforia™ Disposable Kit	9
Seaforia™ Lab Kit	11

Product Catalog

Seaforia™ Disposable Kit	12
Seaforia™ Lab Kit	15
Seaforia™ Heating Device - Starter Kit	16

The natural way...

We strongly believe in providing nature the optimal environment in order to achieve best results possible.



Accessibility is the key...

Lotus Bio is a biomedical company. Its principal mission is to make the field of human reproduction more accessible to the public, while maintaining high quality performance.

The *Seaforia*™ line of products evolved to serve this concept assisting fertility treatments to become simpler, accessible and successful.





Seaforia™ Sperm Separation System

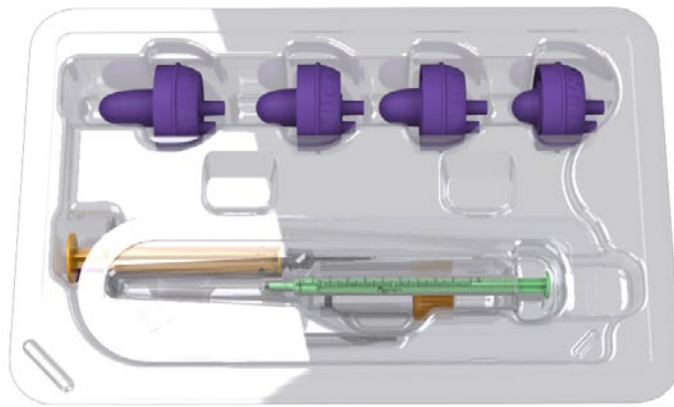
Seaforia™ Sperm Separation System is designed for doctors' clinics, fertility centres and male fertility laboratories.

Sperm cells separation procedure utilizing *Seaforia™* System can be easier, faster and cost effective, yielding a high quality end product.

The System includes a variety of Kits for semen preparation for IUI, ICI & IVF, suitable for different semen volume, and a Heating Device as a heating platform.



Lab kit



Disposable Kit

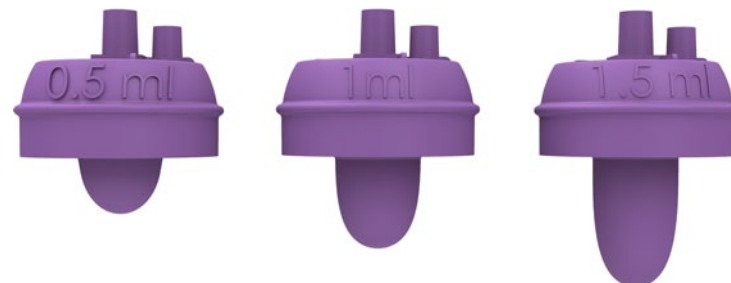


Heating Device

Different Kits are based on different semen volume sperm separators.

Seaforia™ Sperm Separation Disposable Separators

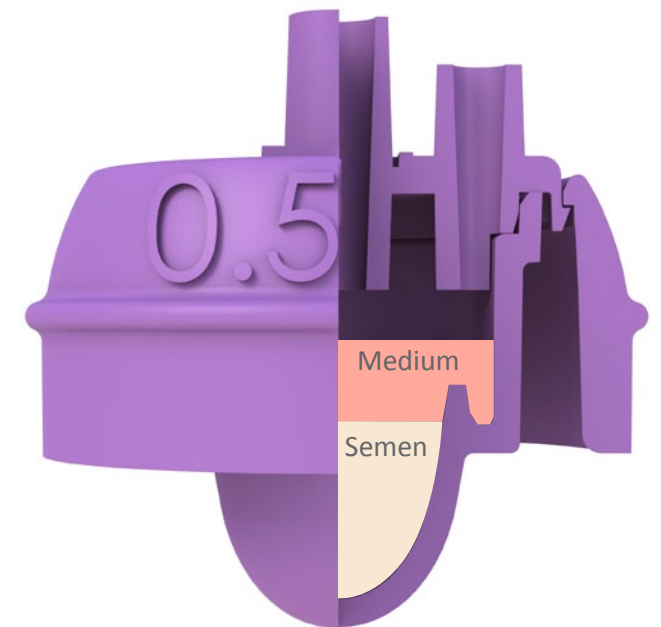
The separators are specifically designed to allow sperm preparation in a unique, simple and easy way.



Different volume Separators

The semen and medium are inserted into the polypropylene medical graded separator and by design a sperm separation is performed based on the swim-up technique.

Sperm preparation can be performed with all approved sperm medium as commonly practiced.



0.5ml Separator

The different volume separators are mounted on the **Seaforia™ Heating Device**, a unique heating system that provides optimal temperature for the separation procedure.

Eliminates the need for additional lab equipment, hence improves the fertility treatment accessibility.



Heating Device

Lotus Bio® Tip

Especially designed polypropylene tips for reduction of vacuum forces directed on the bio sample during deposition and drawing.



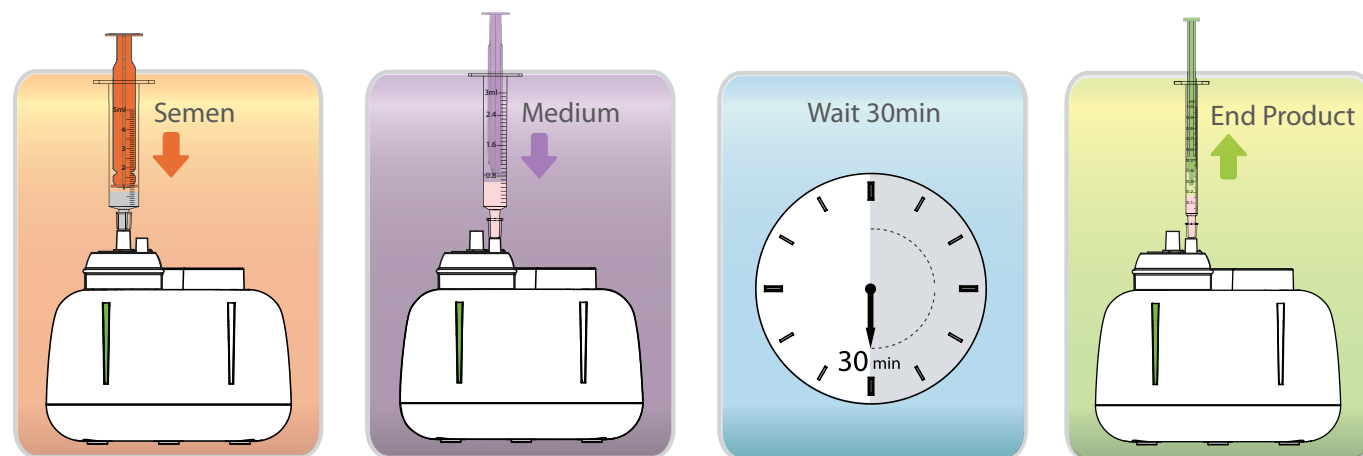
Lotus Bio® Tip



Seaforia™ Procedure

Unique, simple and easy to operate

A natural procedure for sperm cells separation with minimal handling



Separation of the progressively motile sperm cells with high percentage of normal morphology

Seaforia™ Disposable Kits



The Disposable Kit is simple to use and requires minimal handling. It contains all the needed disposables for conducting the procedure and requires no additional lab equipment or mechanical handling.

* *Seaforia™* Heating Device and medium are needed.

Sperm separation can be performed by doctors and healthcare professionals and can be conjugated to a following IUI procedure, hence improve the fertility treatments accessibility.

The *Seaforia™* Disposable Kits are classified according to the semen sample volume, ranging from 0.4ml to 4.5ml, and divided into 3 variants in order to optimize the results.

1. 0.4ml - 2.3ml semen Disposable Kit
2. 2.4ml - 3.8ml semen Disposable Kit
3. 3.9ml - 4.5ml semen Disposable Kit

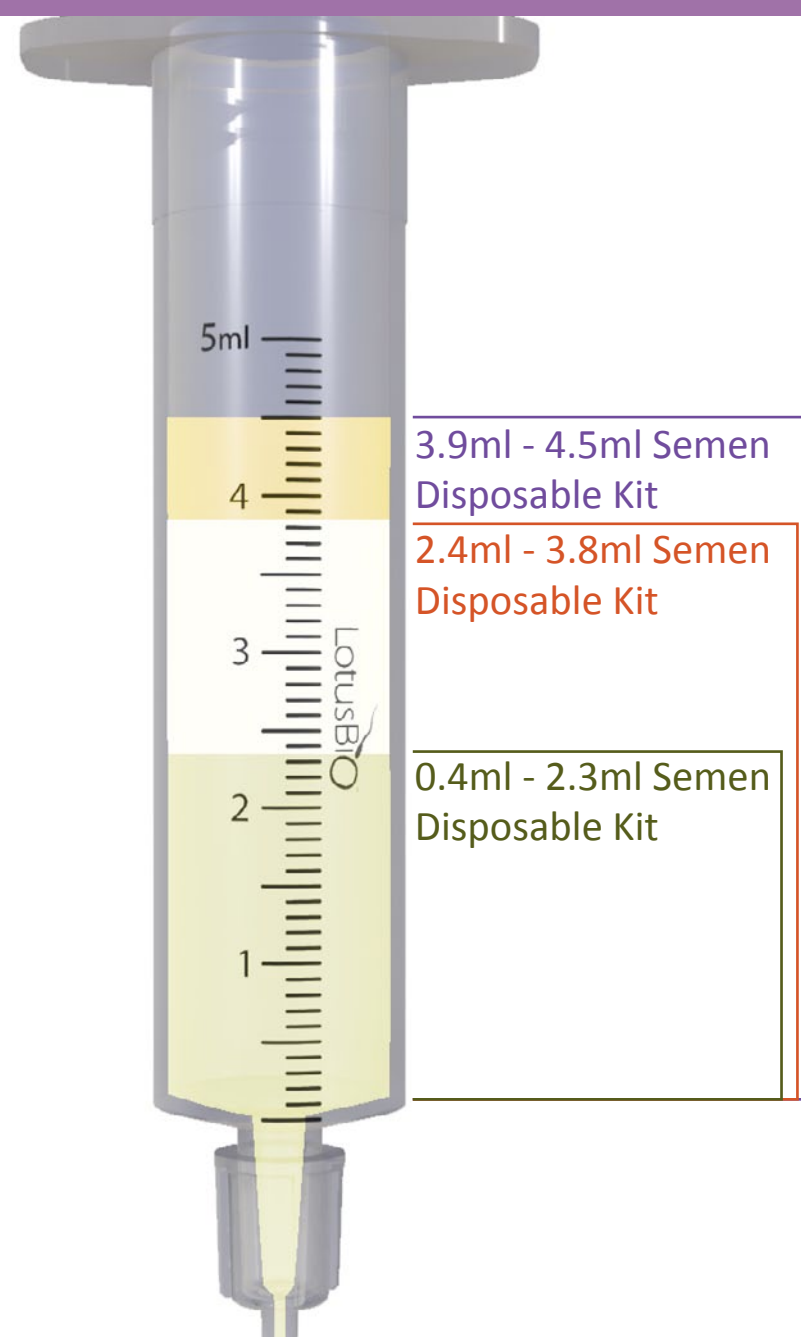
For product catalog and additional details please open page 12



Procedure planning

In order to optimize the performance of the *Seaforia*™ Disposable Kits please follow our recommendation below:

Optimizing the results:
Choosing the best suited kit according to semen volume



Seaforia™ Lab Kit

Single packed sterile separator designated for work in male fertility laboratories and clinics.

Includes 3 sterile Lotus Bio tips suitable for standard luer syringes.

With the *Seaforia*™ Lab Kit the sperm cells separation procedure conducted in laboratory can be easier, faster and cost effective yielding high quality results.

The Lab Kit provides selection of motile spermatozoa for further use in IVF, ICI or IUI procedures.



The kits are classified according to semen sample volume:

1. 0.5ml Lab Kit
2. 1ml Lab Kit
3. 1.5ml Lab Kit

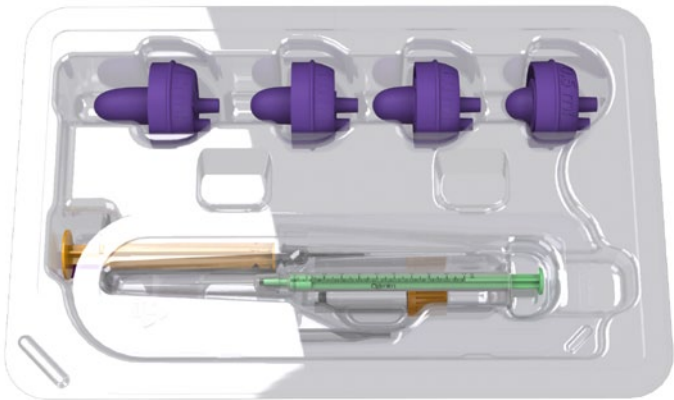
For product catalog and additional details please open page 15

Seaforia™
0.4 - 2.3ml Semen Disposable Kit

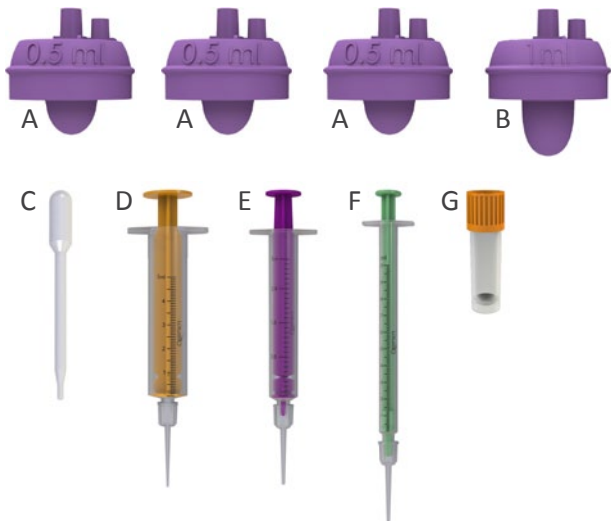
Regulatory:

- CE marked

- Gamma sterilized
- Optimized for 0.4 - 2.3ml semen volume
- Contains all disposables needed for conducting the procedure
- Can be conjugated to a following IUI & ICI
- Can be performed by doctors and healthcare professionals, hence improves the fertility treatment accessibility
- Sperm separation can be performed with all approved/cleared sperm medium as commonly practiced
- Allows a natural procedure for sperm cells separation with minimal handling
- Heating Device needed
- Packaging: 8 per box



Content:	qty.
A 0.5ml Separator	3
B 1ml Separator	1
C 0.9ml Pasteur plastic pipette	1
D 5ml Lotus Bio syringe + Tip	1
E 3ml Lotus Bio syringe + Tip	1
F 1ml Lotus Bio syringe + Tip	1
G 2ml Micro Tube	1



Ref. No.	Description	Shelf time
CAT10125	Seaforia™ 0.4ml - 2.3ml Semen Disposable Kit - 8 Pack	3 years

Quality testing:

- Non-pyrogenic (LAL-test)
- Human sperm survival assay (HSSA)
- Sterility validation according to ISO 11137
- Cytotoxicity: tested by MEM Elution
- Mouse Embryo Assay (MEA-test)

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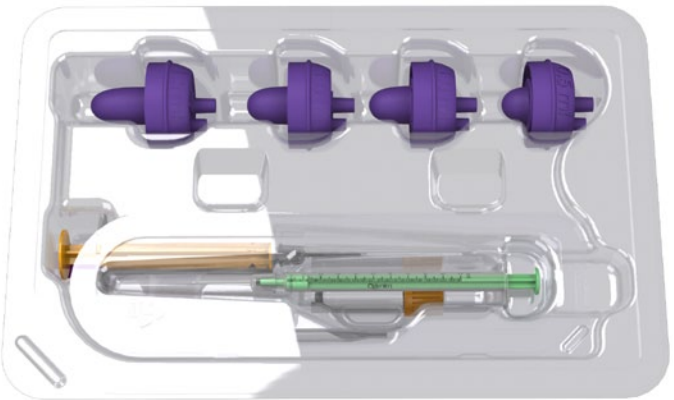
- Download latest instruction for use - PDF
- Download latest abbreviated guide - PDF
- View video guide demonstrating Seaforia™ procedure
- Download certificate of analysis per LOT number
- Distributor list

Seaforia™
2.4 - 3.8ml Disposable Kit

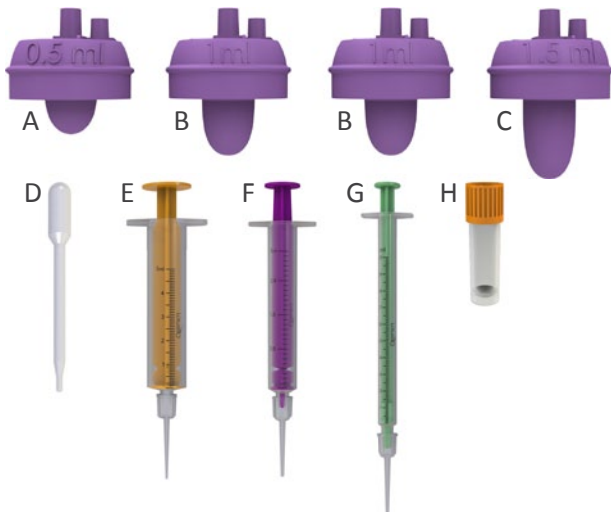
Regulatory:

- CE marked

- Gamma sterilized
- Optimized for 2.4 - 3.8ml semen volume
- Contains all disposables needed for conducting the procedure
- Can be conjugated to a following IUI & ICI
- Can be performed by doctors and healthcare professionals, hence improves the fertility treatment accessibility
- Sperm separation can be performed with all approved/cleared sperm medium as commonly practiced
- Allows a natural procedure for sperm cells separation with minimal handling
- Heating Device needed
- Packaging: 8 per box



Content:	qty.
A 0.5ml Sperm Separator	3
B 1ml Sperm Separator	1
C 1.5ml Sperm Separator	1
D 0.9ml Pasteur plastic pipette	1
E 5ml Lotus Bio syringe + Tip	1
F 3ml Lotus Bio syringe + Tip	1
G 1ml Lotus Bio syringe + Tip	1
H 2ml Micro Tube	1



Ref. No.	Description	Shelf time
CAT10126	Seaforia™ 2.4 - 3.8ml Disposable Kit - 8 Pack	3 years

Quality testing:

- Non-pyrogenic (LAL-test)
- Human sperm survival assay (HSSA)
- Sterility validation according to ISO 11137
- Cytotoxicity: tested by MEM Elution
- Mouse Embryo Assay (MEA-test)

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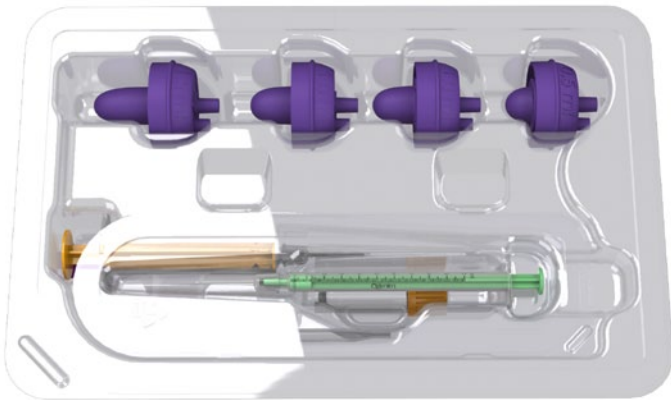
- Download latest instruction for use - PDF
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Seaforia™
3.9 - 4.5ml Semen Disposable Kit

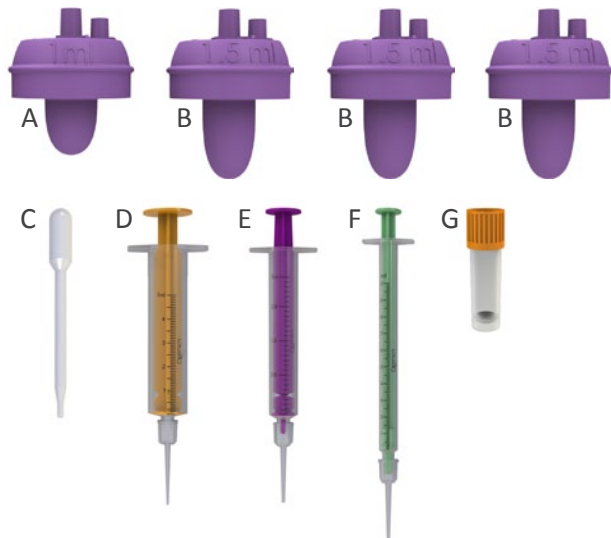
Regulatory:

- CE marked

- Gamma sterilized
- Optimized for 3.9 - 4.5ml semen volume
- Contains all disposables needed for conducting the procedure
- Can be conjugated to a following IUI & ICI
- Can be performed by doctors and healthcare professionals, hence improves the fertility treatment accessibility
- Sperm separation can be performed with all approved/cleared sperm medium as commonly practiced
- Allows a natural procedure for sperm cells separation with minimal handling
- Heating Device needed
- Packaging: 8 per box



Content:		qty.
A	1ml <i>Seaforia</i> ™ Sperm Separator	1
B	1.5ml <i>Seaforia</i> ™ Sperm Separator	3
C	0.9ml Pasteur plastic pipette	1
D	5ml Lotus Bio syringe + Tip	1
E	3ml Lotus Bio syringe + Tip	1
F	1ml Lotus Bio syringe + Tip	1
G	2ml Micro Tube	1



Ref. No.	Description	Shelf time
CAT10127	<i>Seaforia</i> ™ 3.9 - 4.5ml Semen Disposable Kit - 8 Pack	3 years

Quality testing:

- Non-pyrogenic (LAL-test)
- Human sperm survival assay (HSSA)
- Sterility validation according to ISO 11137
- Cytotoxicity: tested by MEM Elution
- Mouse Embryo Assay (MEA-test)

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Seaforia™
Lab Kit

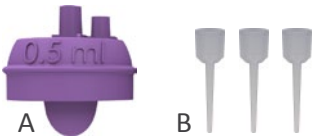
Regulatory:

- CE marked

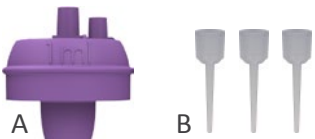
- Gamma sterilized
- Optimized for 0.5/1/1.5ml semen volume
- Can be conjugated to a following IVF, IUI & ICI
- Optimized for male fertility laboratories
- Can be performed by doctors and healthcare professionals, hence improves the fertility treatment accessibility
- Sperm separation can be performed with all approved/cleared sperm medium as commonly practiced
- Allows a natural procedure for sperm cells separation with minimal handling
- Heating Device needed
- Packaging: 50 per box



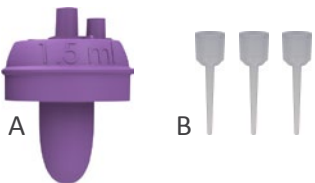
0.5ml Lab Kit Content:		qty.
A	0.5ml <i>Seaforia</i> ™ Sperm Separator	1
B	Lotus Bio Tip	3



1ml Lab Kit Content:		qty.
A	1ml <i>Seaforia</i> ™ Sperm Separator	1
B	Lotus Bio Tip	3



1.5ml Lab Kit Content:		qty.
A	1.5ml <i>Seaforia</i> ™ Sperm Separator	1
B	Lotus Bio Tip	3



Ref. No.	Description	Shelf time
CAT10122	<i>Seaforia</i> ™ 0.5ml Lab Kit - 50 Pack	3 years
CAT10091	<i>Seaforia</i> ™ 1.0ml Lab Kit - 50 Pack	3 years
CAT10123	<i>Seaforia</i> ™ 1.5ml Lab Kit - 50 Pack	3 years

Quality testing:

- Non-pyrogenic (LAL-test)
- Human sperm survival assay (HSSA)
- Sterility validation according to ISO 11137
- Cytotoxicity: tested by MEM Elution
- Mouse Embryo Assay (MEA-test)

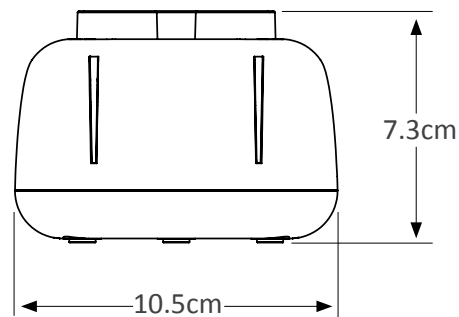
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Seaforia™ Heating Device
Starter Kit

Regulatory:

- CE marked
- Optimized for work with Seaforia™ Separators
- Working temperature: 37°C, ±5°C
- Requires minimal working space for operation in lab / clinic
- Eliminates the need for additional lab equipment, hence improves the fertility treatment accessibility
- Capable of either working with PC USB port or AC power adaptor 5 VDC, 1000mA
- Allows a natural procedure for sperm cells separation with minimal handling
- AC power adaptor not supplied
- Packaging: 1 unit (with an addition of Disposable Kit)



Content:		qty.
A	Heating Device	3
B	Seaforia™ Disposable Kit	1
C	Instruction for Use	1



Ref. No.	Description
CAT10036	Seaforia™ Heating Device Starter Kit

Quality testing:

Cleaning validation
environmental safety and performance
testing IEC 60601-1-1 and IEC 60601-1-2

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- Distributor list





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