



CULTURE MEDIA BY ORIGIO®

# Optimize your results

State of the art culture media  
for every protocol



origio

a CooperSurgical Company

# The integral role of culture media in IVF

Culture media are an essential part of a culture system that aims to minimize insults and stresses to gametes and embryos.

Designed to provide an optimized *in vitro* environment, culture media deliver a balance of ions, energy substrates and nutrients, ensuring the best possible clinical outcomes are supported.

A well-functioning culture system is influenced by many factors including air quality, temperature control, CO<sub>2</sub> and pH levels, and the level of expertise of laboratory staff and these can all affect results.

## Developing high quality culture media for 30 years

A market leader with strong heritage, and growing portfolio of innovative products, ORIGIO has developed and produced high-quality media since 1987.

We employ industry experts and partner with leading scientists to produce the best possible solutions. Our expert teams approach each challenge with one ultimate aim – enabling you to maximize your success rates.

ORIGIO media are manufactured in a purpose built, state-of-the-art production facility. Our world class ISO 13485 and ISO 9001 certified manufacturing site consistently maintains the highest standards for product quality and reliability.

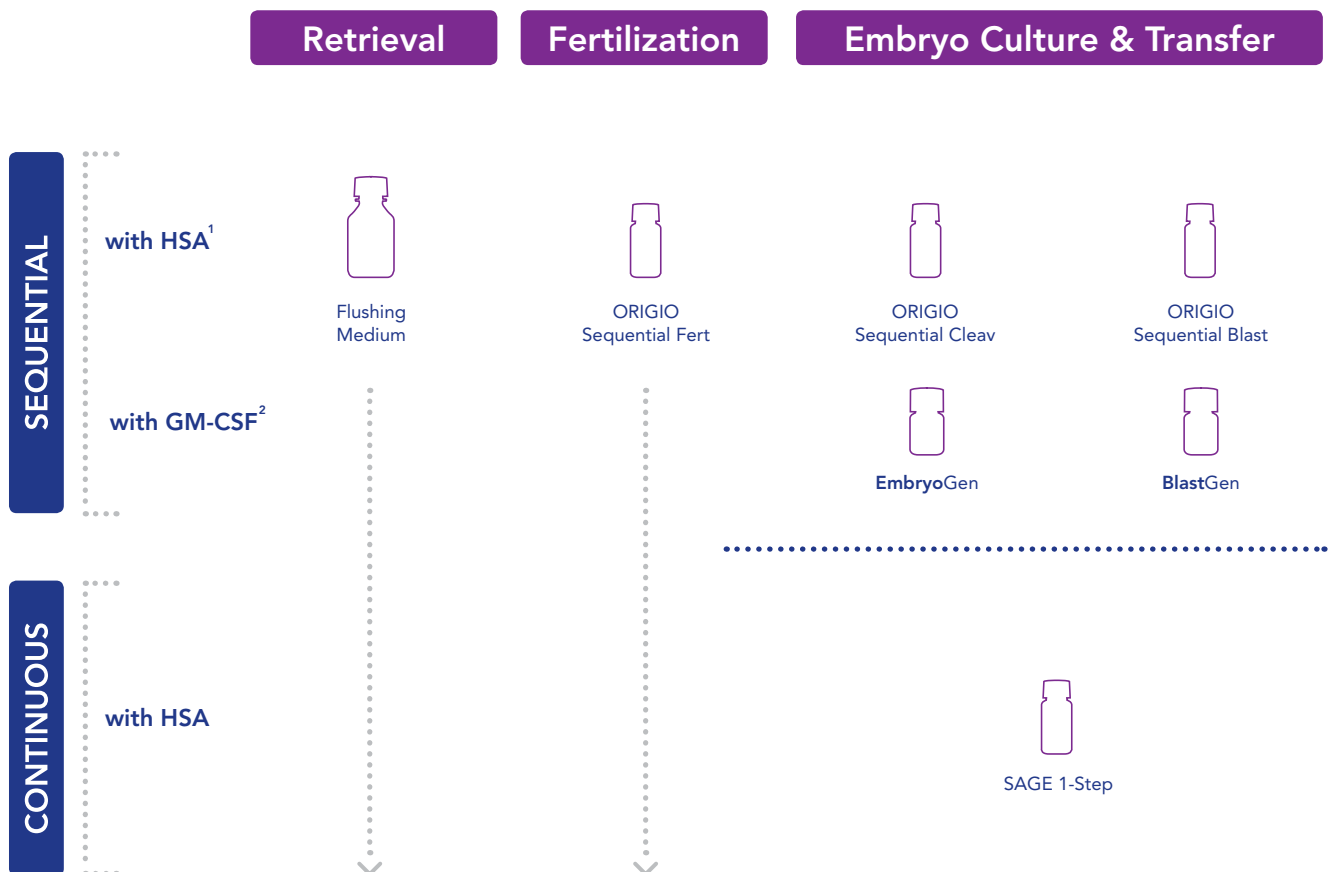


# ORIGIO high quality culture media for every protocol

ORIGIO create media that support every step of the IVF process including oocyte retrieval, fertilization, culture and transfer. Our diverse product range has been carefully designed to meet your individual needs.

From continuous media that offer uninterrupted culture and ease of use, to a sequential series optimized for each step in the process, our culture media range has been specifically designed to support optimal development of healthy embryos. This facilitates clinical management tailored to the individual needs of patients, whether this relates to day of transfer, postponed transfer, or additional procedures such as biopsy and PGS.

Clinical research has proven that cytokines play a critical role in communication between the embryo and endometrium, which is key for a successful pregnancy. Based on this knowledge we have developed **EmbryoGen** and **BlastGen**, a novel media suite for day 3 and day 5 culture that is unique within the industry.



1. Human Albumin Solution

2. The cytokine Granulocyte-Macrophage Colony-Stimulating Factor (GM-CSF)

# ORIGIO Sequential Series™

The optimized culture media series for sequential culture

The ORIGIO Sequential Series helps support development as the embryo goes through the changing metabolic and physiological phases, using three media designed to work in a series:

**Sequential Fert™** supports both gametes during fertilization and promotes sperm function

**Sequential Cleav™** formulated to support early embryo development

**Sequential Blast™** designed to meet metabolic needs after embryo genome activation

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Developed and inspired by peer reviewed research, the ORIGIO Sequential Series includes:

- Vitamins to reduce stress during early embryo development
- Essential and non-essential amino acids for cellular vitality
- Hyaluronan to promote cryo survival and embryo implantation



# EmbryoGen® & BlastGen™

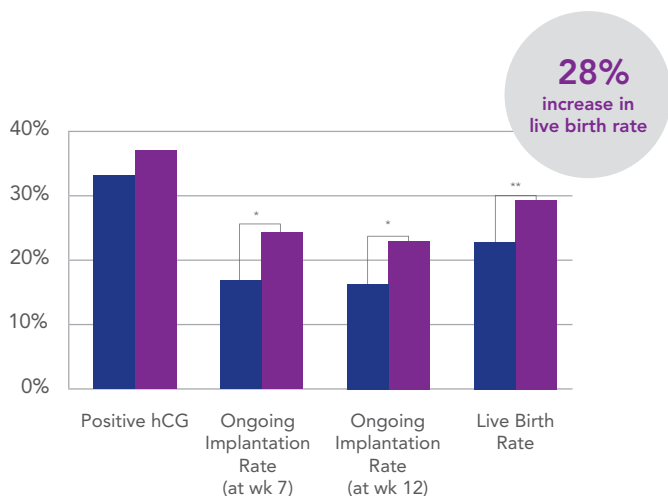
## Facilitating communication between embryo and endometrium

**EmbryoGen** and **BlastGen** comprise the world's first media suite containing the recombinant human GM-CSF cytokine, for cleavage stage and blastocyst stage embryos. These unique products aim to reduce stress caused to the embryo by creating a more physiological *in vitro* environment, improving the outcome of a successful implantation.

### Recommended for patients who have experienced:

- Recurrent clinical and biochemical pregnancy loss
- Recurrent implantation failure
- Unexplained infertility

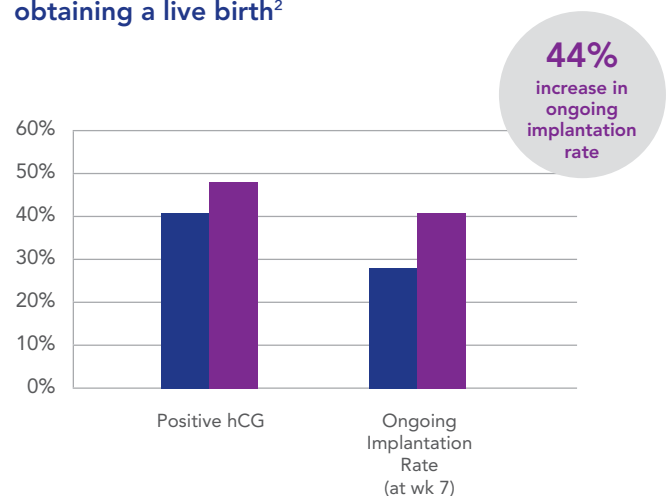
### 3 days of embryo culture **EmbryoGen** improved live birth rate<sup>1</sup>



Subgroup analysis for previous miscarriage patients (n=289 embryo transfer cycles) from a multi-center, randomized, controlled parallel group, double blinded trial with 1,300+ patients from 14 centers. \*P<0.01; \*\*P<0.05

■ Standard IVF Treatment ■ EmbryoGen

### **EmbryoGen** and **BlastGen** have a positive effect on pregnancy rate and increase the chances of obtaining a live birth<sup>2</sup>



Subgroup analysis for frozen-thawed blastocysts (n=93 single blastocyst transfer cycles) from a single-center, pilot study of randomized sibling zygotes.

■ Standard IVF Treatment ■ EmbryoGen & BlastGen

### Definitions

Ongoing implantation rate: Number of sacs with heart beat per transferred embryo. Live birth rate: Live births per transferred embryo.

1. Ziebe et al., A randomized clinical trial to evaluate the effect of granulocyte-macrophage colony-stimulating factor (GM-CSF) in embryo culture medium for in vitro fertilization. Fertil Steril. 2013 May;99(6):1600-9.  
2. ORIGIO®, data on file

# SAGE 1-Step™

## The single step medium for uninterrupted embryo culture

SAGE 1-Step is a continuous culture medium that has been developed with a strong focus on robustness. It allows uninterrupted culture following IVF or ICSI insemination through to the blastocyst stage, and is ideal for use with time lapse technology.

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Developed and inspired by peer reviewed research, SAGE 1-Step includes:

- Hyaluronan to promote cryo survival and embryo implantation
- A stable glutamine source supporting a reduced ammonium build-up
- Optimized ionic composition and energy substrates supporting uninterrupted continuous culture



# ORIGIO culture media product range

We have a culture media portfolio that supports every stage of the IVF process.

Our culture media portfolio is quality assured; all products undergo comprehensive quality control to ensure they are stable and present minimal batch variation.

The range has been designed with care and attention to detail, using customer insights and our scientific expertise. For further information about any of culture media products visit [origio.com](http://origio.com) or speak to one of our sales team members.

## Handling Medium

Quinn's Advantage Medium with HEPES	Protein free
Flushing Medium	Ready to use

## Fertilization

ORIGIO Sequential Fert	Ready to use - HSA
Quinn's Advantage Protein Plus Fertilization Medium	Ready to use - HSA
Quinn's Advantage Fertilization Medium	Protein free

## Sequential Day 3 culture

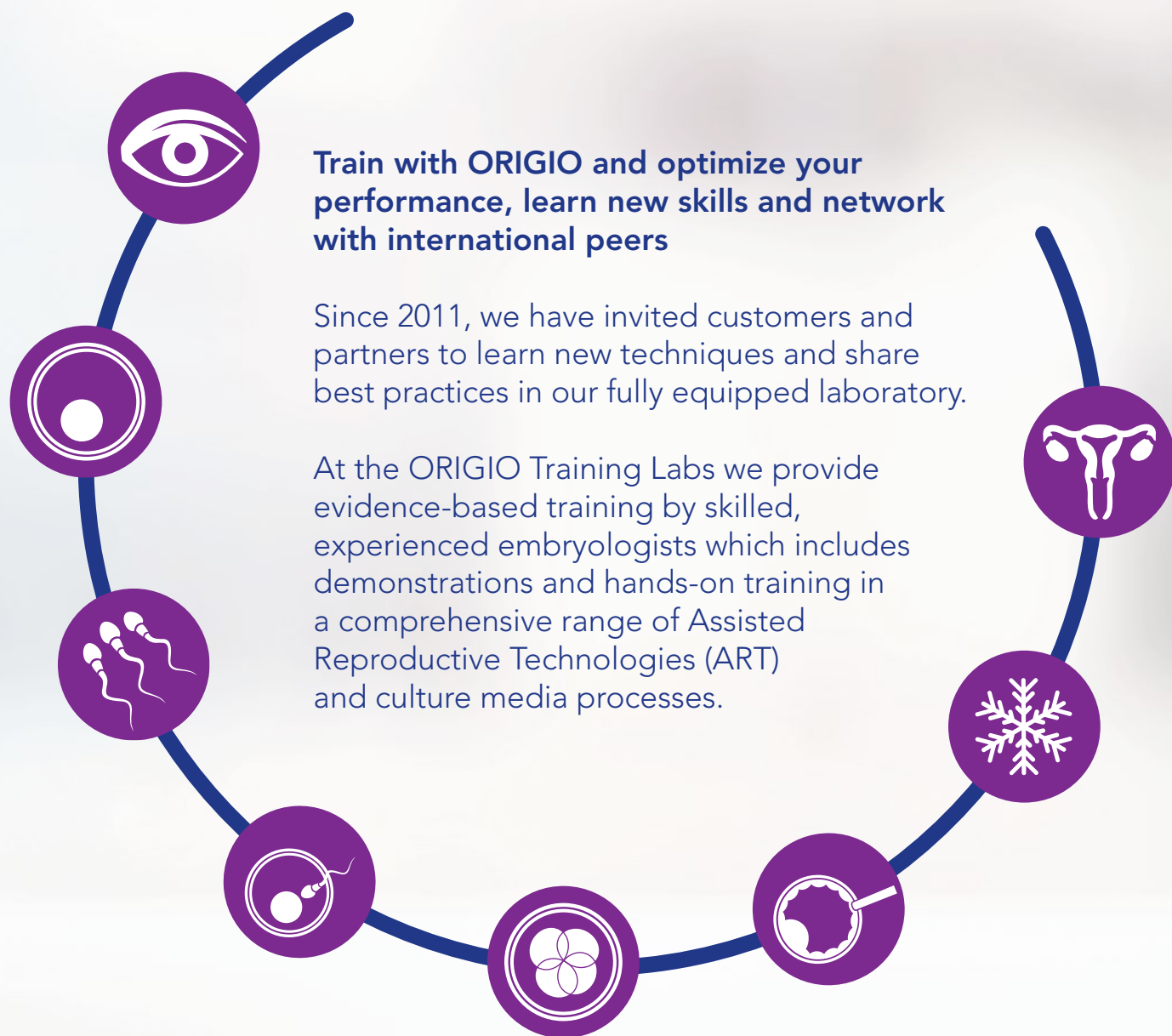
ORIGIO Sequential Cleav	Ready to use - HSA
<b>EmbryoGen</b>	Ready to use - GM-CSF
Quinn's Advantage Cleavage Medium	Protein free

## Sequential Day 5 culture

ORIGIO Sequential Blast	Ready to use
<b>BlastGen</b>	Ready to use - GM-CSF
Quinn's Advantage Blastocyst Medium	Protein free


## Continuous Culture


SAGE 1-Step	Ready to use - HSA
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**For further details and to book places visit [www.origio.com](http://www.origio.com)**

Sales & distribution availability of products will vary across markets.

ORIGIO products:   
0543

SAGE products:   
0086

ORIGIO a/s  
[www.origio.com](http://www.origio.com)



**CooperSurgical Fertility Companies**