

# EMBRYO CULTURE

Directions for supplementation of un-supplemented G-Series™ media can be found in the G-Series Manual on [www.vitrolife.com](http://www.vitrolife.com). Once supplemented, the media should be used as the G-Series PLUS media described below.

## Day 0



G-1™ PLUS



OVOIL™

Prepare micro-droplet culture dishes with 25 µL droplets of G-1 PLUS for washing and for culture. Cover with OVOIL and pre-equilibrate at

**37°C 6 % CO<sub>2</sub>  
overnight**



G-MOPS™ PLUS

Warm G-MOPS PLUS (for fertilisation assessment) in rinsed tightly capped tubes in a warming incubator **without CO<sub>2</sub>\*** at

**37°C overnight**

\* An adequately calibrated warming block can be used for tubes instead of a warming incubator.

**Ensure that the denudation and washing procedures are performed at 37°C**

## Day 1

### 1. Fertilisation assessment

For inseminated oocytes, transfer the oocytes to a centre well dish with pre-warmed G-MOPS PLUS. If denudation and fertilisation assessment can be performed within 2 minutes, G-IVF™ PLUS can be used instead of G-MOPS PLUS. Remove cumulus and corona cells from oocytes using a denudation pipette and assess fertilisation at

**37°C**



For ICSI oocytes, assess fertilisation in the G-1 PLUS micro-droplet culture dish.

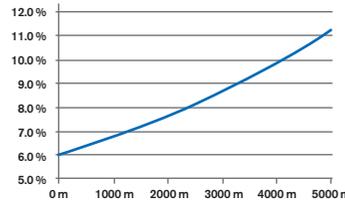
### 2. Culture

Wash the zygotes extensively in the G-1 PLUS micro-droplet dishes prepared on Day 0 and transfer the zygotes to 25 µL G-1 PLUS culture droplets covered with OVOIL. Culture at

**37°C 6 % CO<sub>2</sub>  
overnight or for 2 days**



If your clinic is located at a higher altitude than sea level, CO<sub>2</sub> percentage should be increased, see graph below.



## Day 2

### Assessment

Assess embryo cleavage.

**For embryo transfer day 2, see separate Embryo transfer protocol**

## Day 3

### Assessment

Assess embryo cleavage.

**For embryo transfer day 3, see separate Embryo transfer protocol**

**We recommend G-MOPS PLUS for washing and assessment of embryos before transfer to G-2 PLUS or EmbryoGlue®**

## Blastocyst culture

### 1. Prepare micro-well dishes for Blastocyst culture



G-2™ PLUS



OVOIL

In the morning of day 3, prepare micro droplet culture dishes with 25 µL droplets of G-2 PLUS for washing and for culture. Cover with OVOIL and pre-equilibrate at



**37°C 6 % CO<sub>2</sub> ≥ 6 h**

### 2. Move embryos to G-2™ PLUS

In the afternoon of day 3, wash the embryos extensively in equilibrated G-2 PLUS droplets and transfer the embryos to G-2 PLUS culture droplets, maximum 5 embryos per droplet. Culture at



**37°C 6 % CO<sub>2</sub>  
2 days**

## Day 4

### Prepare micro-droplet culture dishes



G-2 PLUS



OVOIL

Prepare centre well dishes with fresh G-2 PLUS. Prepare micro-droplet dishes for prolonged culture if needed and pre-equilibrate at



**37°C 6 % CO<sub>2</sub>  
overnight**

## Day 5

### In the morning of day 5

Assess embryo cleavage, and move the blastocysts selected for transfer and cryo preservation to the equilibrated G-2 PLUS centre well dishes and leave at



**37°C 6 % CO<sub>2</sub>  
until 10-30 min  
before transfer**

**For blastocyst transfer, see separate Embryo transfer protocol**