

## The G-Series



# G-2 PLUS

G-2 PLUS provides the embryo with a wide range of amino acids and hyaluronan for blastocyst development.

### Appropriate nutrients to protect and support

G-2™ PLUS is a medium for culture of human embryos from the 8-cell stage on day three until the blastocyst stage. The medium contains amino acids to support embryo viability and hyaluronan to improve development and cryosurvivability and to facilitate implantation. G-2 PLUS also contains vitamins that function as antioxidants to protect the embryo against reactive oxygen species during culture in vitro. G-2 PLUS is supplemented with human serum albumin, HSA, and is ready to use.

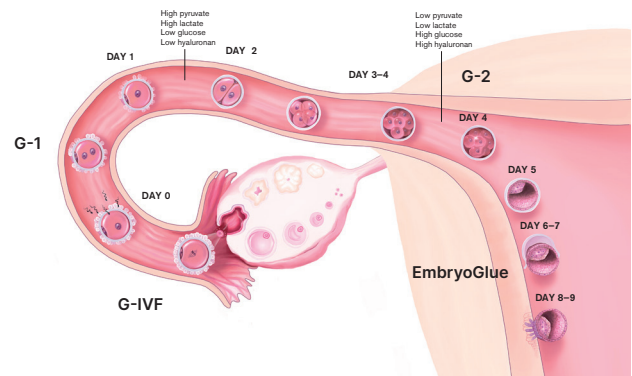
### Carefully developed formulation

The formulation of G-2 PLUS is the result of development that was first reported in the 1998 landmark article by Gardner and co-workers, where they showed that culture of human blastocysts was feasible and blastocysts had higher implantation potential than cleavage stage embryos<sup>1</sup>.

### G-Series - confidence at each step

Each product in the G-Series™ is developed to resemble conditions in the female reproductive tract and fulfil embryo requirements.

REF: 1. Gardner et al. Hum Rep, volume 13 number 12 December 1998 pp 3434-3440



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## Product specification G-2 PLUS

<b>REF</b>	10132	
<b>Content</b>	1 × 30 mL	
<b>Intended purpose</b>	Medium for culture of embryos from day 3 to the blastocyst stage.	
<b>Description</b>	Bicarbonate buffered medium containing hyaluronan and human serum albumin.	
<b>Application</b>	For use after pre-equilibration at +37°C and 6 % CO <sub>2</sub>	
<b>Storage</b>	Store dark at +2 to +8°C	
<b>Raw material</b>	All raw material are tested and evaluated by stringent quality control procedures.	
<b>Composition</b>	Alanine, Alanyl-glutamine, Arginine, Asparagine, Aspartate, Calcium chloride, Calcium pantothenate, Cystine, Gentamicin, Glucose, Glutamate, Glycine, Histidine, Human serum albumin*, Hyaluronan, Isoleucine, Leucine, Lysine, Magnesium sulphate, Methionine, Phenylalanine, Potassium chloride, Proline, Pyridoxine, Riboflavin, Serine, Sodium bicarbonate, Sodium chloride, Sodium citrate, Sodium dihydrogen phosphate, Sodium lactate, Sodium pyruvate, Thiamine, Threonine, Tryptophan, Tyrosine, Valine, Water for injection (WFI). * Pharmaceutical infusion-grade for medical use, free from HBV, HCV and HIV.	
<b>Product properties</b>	pH (at +37°C and 6 % CO <sub>2</sub> atmosphere)	7.27±0.07
	Osmolality [mOsm/kg]	280±5
	Sterility	No evidence of microbial growth
	Bacterial endotoxins (LAL-assay) [IU or EU/mL]	<0.25
	Mouse embryo assay (1-cell) [% expanded blastocyst within 96h]	≥ 80
	Mouse embryo assay (1-cell) [blastocyst cell number within 96h]	No statistical difference