

## Quinn's Advantage™ Ca/Mg-Free Medium with HEPES

**For laboratory procedures only; other uses must be qualified by the end user.**

Product Description	Catalogue Code	Unit Size
Quinn's Advantage™ Ca/Mg-Free Medium with HEPES	RM-ART-4100	4 x 12mL

### INTENDED USE

Quinn's Advantage™ Ca/Mg-Free Medium with HEPES is intended for in vitro procedures involving the separation of blastomeres from cleaving embryos by disruption of the tight junctional complexes that hold them together. Ca/Mg-Free Medium with HEPES has been shown in studies (Dumoulin et al, *Human Reprod.* 1998;13:2880-2883.) to allow easier removal of blastomeres from cleaving embryos or disruption of the tight junctional complexes that hold them together. This medium is a modification of the original Human Tubal Fluid (HTF) medium with HEPES formulation first described by Quinn and colleagues (*Fertil Steril.* 1984;41:202, 1985;44:493). Modifications to the original formulation include removal of calcium and magnesium ions and the addition of EDTA.

### COMPONENTS

Sodium chloride	Potassium chloride	Potassium phosphate
Sodium bicarbonate	HEPES	Glucose
Sodium pyruvate	Sodium lactate (DL)	Alanyl-glutamine
EDTA	Gentamicin	Phenol red

### STORAGE INSTRUCTIONS AND STABILITY

Store unopened containers at or below -20°C upon receipt. Warm to incubator (37°C) temperature prior to use. Do not re-freeze or expose to temperatures greater than 39°C. The product is stable until the expiration date shown on the label or within 30 days of the Date of First Use provided that proper aseptic procedures have been observed by the user:

- Remove desired volume of product using aseptic procedures
- Once product has been removed from the original container, reseal the container to ensure a tight seal. Write the date the product was first opened on the product label. Do not use product longer than 30 days after opening the container.
- Once removed, do not return any volume of product to the original container.
- Once the product has been opened, store the sealed container at 2-8°C
- Do not use if the product becomes discoloured, cloudy, turbid, or shows any evidence of microbial contamination.

One-cell MEA tested and passed with 80% or greater blastocyst. USP Endotoxin gel clot tested and passed with <1 EU/ml. A certificate of analysis is available for this product.

### DIRECTIONS FOR USE

This is the preferred medium for inducing the separation of blastomeres from cleaving embryos done in an atmosphere of air not involving the use of a CO<sub>2</sub> incubator. Cleaving human embryos (4- to 10-cell stage on the third day of development) can be manipulated in this medium for up to 45 minutes with no deleterious effects on subsequent development of the embryo to the blastocyst stage (Dumoulin et al, *Human Reprod.* 1998;13:2880-2883). This medium requires the addition of protein or another suitable polymer to stabilize cell membranes during manipulation.

**Each laboratory should make its own determination of which medium to use for each particular procedure.** Information on specific aspects of IVF and embryo culture is available in our publication "IVF Laboratory Policy and Procedure Manual".

### PRECAUTIONS AND WARNINGS

Do not use medium that shows evidence of particulate matter, cloudiness, or is not rose coloured. To avoid problems with contamination, practice aseptic technique and discard minimal amounts of excess medium remaining in the bottle.

### RELATED PRODUCTS

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