

Quinn's Advantage™ Cleavage Medium

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

Product Description	Catalogue Code	Unit Size
Quinn's Advantage™ Cleavage Medium	RM-ART-1026	1 x 50mL
Quinn's Advantage™ Cleavage Medium	RM-ART-1027	1 x 100mL

INTENDED USE

Quinn's Advantage™ Cleavage Medium was developed for in vitro procedures involving the culture of cleavage stage human embryos. This medium is a modification of Human Tubal Fluid (HTF) that was first described by Quinn and colleagues (*Fertil Steril.* 1984;41:202, 1985;44:493). Modifications to the original formulation include no phosphate and the addition of a low concentration of glucose, citrate, EDTA, selected non essential amino acids and taurine, alanyl-glutamine as a stable source of glutamine, increased levels of magnesium, and the presence of lactate in the form of calcium lactate.

COMPONENTS

Sodium chloride	Potassium chloride	Magnesium sulfate
Calcium lactate	Sodium bicarbonate	Glucose
Sodium pyruvate	Alanyl-glutamine	Taurine
L-Asparagine	L-Aspartic Acid	Glycine
L-Proline	L-Serine	Sodium citrate
EDTA	Gentamicin	Phenol Red

STORAGE INSTRUCTIONS AND STABILITY

Store unopened containers refrigerated at 2-8°C. Warm to incubator (37°C) temperature and equilibrate with desired atmosphere containing 5% CO₂ prior to use. Do not freeze or expose to temperatures greater than 39°C. It is advisable to regass the medium with 5% CO₂ before placing opened bottles back in the refrigerator.

In order to ensure optimal performance, SAGE Media™ strongly recommends measuring the pH of the medium under laboratory working conditions and adjusting the level of CO₂ used to attain the desired pH range for optimal embryo development. The desired pH range for Quinn's Advantage™ Cleavage Medium is 7.2 ± 0.1. 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, regass the container and reseal it 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 the culture of cleavage-stage human embryos from the pro-nuclear stage to 8-cell embryos in vitro. We currently recommend the use of Quinn's Advantage™ Fertilization (HTF) Medium (RM-ART-1020/1) for fertilization of oocytes, and Quinn's Advantage™ Blastocyst Medium (RM-ART-1029) for culture from Day 3 to Day 5/6. The media should be supplemented with an exogenous protein source such as Human Serum Albumin (RM-ART-3001/3) or Serum Protein Substitute (RM-ART-3010/11).

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

SAGE Assisted Reproduction Products™ has a full line of products for the Reproductive Medicine Specialist. Please call or write for specific information, technical questions, customer support, or to receive a copy of our current price list.

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