

Quinn's Advantage™ 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™ Medium w/HEPES | RM-ART-1023 | 1 x 100mL |
| Quinn's Advantage™ Medium w/HEPES | RM-ART-1024 | 1 x 500mL |

INTENDED USE

Quinn's Advantage™ Medium with HEPES was developed for in vitro procedures involving manipulation of gametes and embryos not requiring the use of a CO₂ incubator. 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 low phosphate and the addition of 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 |
| Potassium phosphate | Calcium lactate | Sodium bicarbonate |
| HEPES | 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 prior to use. Quinn's Advantage™ Medium with HEPES should be tightly capped when used in a CO₂ incubator to avoid downwards drifts of pH. Do not 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, 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 procedures done in an atmosphere of air not involving the use of a CO₂ incubator. Such procedures include oocyte recovery, gamete washing, micromanipulation, embryo transfer and cryopreservation. The medium 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 colored.

To avoid problems with contamination, practice aseptic technique and discard minimal amounts of excess medium remaining in the bottle.

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