



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

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

| Product Description | REF Number | Unit Size |
|---|------------|-----------|
| Quinn's Advantage® Ca/Mg-Free Medium with HEPES | ART-4100 | 4 x 12 mL |

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 by 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.).

COMPONENTS

Sodium chloride
Potassium chloride
Potassium phosphate
Sodium bicarbonate
HEPES
Glucose
Sodium pyruvate
Sodium lactate (DL)
Alanine-glutamine
Taurine
Essential and non-essential amino acids
Gentamicin
Phenol red

STORAGE INSTRUCTIONS AND STABILITY

Store unopened containers at 2-8°C upon receipt. Warm to incubator (37°C) temperature prior to use. Do not 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°C to 8°C.

E. Do not use if the product becomes discolored, 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 CO₂ 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, embryo culture, and cryopreservation is available in our Product Catalog (REF #80572).

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.

Caution: Federal law restricts this device to sale by or on the order of a physician (or properly licensed practitioner).

RELATED PRODUCTS

SAGE Assisted Reproduction Products™ has a full line of products for the Reproductive Medicine Specialist. Please call or write for specific information or to receive a copy of our current catalog. For technical questions, or to reach our Customer Service Department, call the SAGE Support Line at the number below.

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Call the **SAGE SUPPORT LINE** at:
1-800-243-2974 or 1-203-601-5200



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