SAR HEALTHLINE (P) LTD

Quinn's Advantage™ Blastocyst Medium

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

Product Description	Catalogue Code	Unit Size
Quinn's Advantage™ Blastocyst Medium	ART-1029	1 x 50mL

INTENDED USE

Quinn's Advantage™ Blastocyst Medium was developed for in vitro procedures involving the culture of human embryos from the compaction phase on Day 3 of development to the blastocyst stage. 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 the addition of an elevated concentration of glucose, selected nonessential and essential amino acids, alanyl-glutamine as a stable source of glutamine, MEM vitamin mix, increased levels of magnesium, and the presence of lactate in the form of calcium lactate. This medium contains no EDTA.

COMPONENTS

Sodium chloride	Potassium chloride	Potassium phosphate
Magnesium sulphate	Calcium lactate	Sodium bicarbonate
Glucose	Sodium pyruvate	Taurine
Glutahione	Alanyl-glutamine	L-Asparagine
L-Aspartic acid	Glycine	L-Proline
L-Serine	L-Arginine	L-Cystine
L-Histidine	L-Isoleucine	L-Leucine
L-Lysine	L-Methionine	L-Phenylalanine
L-Threonine	L-Tryptophan	L-Tyrosine
L-Valine	D-Calcium pantothenate	Choline chloride
Folic acid	i-Inositol	Nicotinamide
Pyridoxine	Riboflavin	Thiamine
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™ Blastocyst Medium is 7.3 ± 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:

A. Remove desired volume of product using aseptic procedures.

B. 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.
C. Once removed, do not return any volume of product to the original container.
D. Once the product has been opened, store the sealed container at 2-8°C.
E. 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 human embryos from Day 3 of development to the blastocyst stage on day 5/6. We currently recommend the use of Quinn's Advantage™ Fertilization (HTF) Medium (ART- 1020/1) for fertilization of oocytes, and Quinn's Advantage™ Cleavage Medium (ART-1029) for culture from Day 1 to Day 3. The media should be supplemented with an exogenous protein source such as Human Serum Albumin (ART-3001/3) or Serum Protein Substitute (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.