



Sterile Oil for Tissue Culture

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

| Product Description | Catalogue Code | Unit Size |
|------------------------|----------------|-----------|
| Oil for Tissue Culture | RM-ART-4008 | 1 x 100mL |
| Oil for Tissue Culture | RM-ART-4008-5 | 1 x 500mL |

INTENDED USE

Oil for Tissue Culture is intended for use in laboratory procedures that may require small volumes of tissue culture medium to be covered with a relatively inert, nonmiscible liquid component that allows diffusion of gases. Such procedures include in vitro fertilization and embryo culture and micromanipulative procedures such as ICSI and assisted hatching. Some of the proposed benefits of using small volumes of medium under oil include minimal evaporation of water from the medium, culture of gametes and embryos at increased cell densities, and the use of smaller volumes of medium containing expensive components

COMPONENTS

Liquid petrolatum / paraffin oil / low-viscosity mineral oil.
Sterile filtered. (SAL 10³)

STORAGE INSTRUCTIONS AND STABILITY

Store unopened containers at room temperature (below 30°C) away from normal light. 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 between room temperature and 37°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

It has been recommended to equilibrate the oil with 10% (v/v) of culture medium, replacing the first lot of medium with a second lot after overnight incubation in a CO₂ incubator. The container of equilibrated oil is then left in the incubator with the cap of the bottle loosely in place to allow gas equilibration.

We have found that non-equilibrated oil, used directly from the bottle as delivered, gives results in human ART and mouse embryo culture equivalent to those obtained with equilibrated oil.

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

Fat-soluble compounds such as steroids and fat-soluble vitamins will preferentially diffuse into the oil layer from aqueous culture medium. Spilt product can be removed with 70% alcohol and paper towel.

Do not use any container of oil that shows evidence of particulate matter or microbial contamination.

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

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