FertiCult™ Mineral Oil
Light mineral oil for use in IVF, ICSI
and related ART procedures

Sterilized using aseptic processing techniques.

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USED ABBREVIATIONS
ICSI Intracytoplasmatic Sperm Injection
IVF In Vitro Fertilization
IUI Intra Uterine Insemination

GENERAL INFORMATION
FertiCult Mineral Oil is pre-washed, ready to use, light mineral oil (d=0.83-0.86g/ml) for use in IVF, ICSI and related artificial reproductive techniques. FertiCult Mineral Oil has to be pre-incubated for 5 hours in an incubator at 37°C (with lid closed).

COMPOSITION
Mineral oil
CAS code: 8042-47-5
EP Monograph: 0240

INTENDED USE
Culture medium overlayed with oil was first used in the early 1960’s as a technique for the culture of mammalian embryos. The oil permits small volumes of medium to be used for fertilization and embryo culture.

Use of oil prevents the evaporation of media, thereby reducing the harmful effects of increased osmolality. Furthermore, the use of an oil overlay reduces changes in pH caused by loss of CO₂ from the medium when culture dishes are taken out of the incubator for embryo examination.

Finally, culture of multiple embryos in small volumes of medium under oil promotes the concentration of autocrine growth factors secreted by the developing embryos, leading to enhanced rates of embryo development.

MATERIAL INCLUDED WITH THE KIT
Product code: MINOIL050
» 1x 50ml FertiCult Mineral Oil
Product code: MINOIL100
» 1x 100ml FertiCult Mineral Oil
Product code: MINOIL500
» 1x 500ml FertiCult Mineral Oil

MATERIAL NOT INCLUDED WITH THE KIT
» CO₂ Incubator at 37°C
» Petri dishes
» Cell culture media
» LAF bench (ISO Class 5)
» Microscope
» Test tubes

PRODUCT SPECIFICATIONS
» Density: 0.83-0.86g/ml
» Viscosity: < 30 cp at 30°C
» Endotoxin: < 0.25 EU/ml
» Peroxide Value (POV): < 0.1 mEq/kg
» Sterility: SAL 10⁻³
» Mouse embryo assay: ≥ 80% blastocysts after 120 hours in culture
» Use of pharmaceutical grade mineral (paraffin) oil
» A certificate of analysis and MSDS are available upon request.
PRE-USE CHECKS

» Do not use the product if it shows any evidence of microbial contamination.
» Do not use the product if seal of the container is opened or defect when the product is delivered.

INSTRUCTIONS FOR USE

FertiCult Mineral Oil is pre-washed so no further preparations are necessary. Simply place a bottle of FertiCult Mineral Oil in an incubator at 37°C 5 hours prior to use (with lid closed).
FertiCult Mineral Oil can be used together with FertiCult IVF medium and GAIN medium (contact FertiPro for more information about these products).

STORAGE AND CONSERVATION

Store FertiCult Mineral Oil between 15-25°C. Do not freeze before use. Keep the product in the original packaging or shield from light while not in use. Do not expose the product to sources of irradiation. The product can be used safely for at least 28 days after opening the container when sterile conditions are maintained and the products are stored at room temperature. Stable after transport (max 5 days) at elevated temperature (≤ 37°C). Do not use after expiry date. Keep away from (sun)light. Content cannot be resterilized after opening.

WARNINGS AND PRECAUTIONS

All human, organic material should be considered potentially infectious. Handle all specimens as if capable of transmitting HIV or hepatitis. Always wear protective clothing when handling specimens. Always work under strict hygienic conditions (e.g. LAF-bench ISO Class 5) to avoid contamination. The oil may appear cloudy if removed from the incubator and allowed to stand at room temperature for extended periods of time. Such cloudiness usually disappears if the oil is re-equilibrated by replacing it in the incubator for several hours, if it does not disappear discard the product.

BIBLIOGRAPHY


TECHNICAL SUPPORT

FertiPro N.V.
Industriepark Noord 32, 8730 Beernem, Belgium
Tel +32 (0)50 79 18 05
Fax +32 (0)50 79 17 99
URL: www.fertipro.com
E-mail: info@fertipro.com