



Cult-Oil

Light mineral oil to overlay cell culture media during IVF, ICSI and related ART procedures

PRODUCT INFORMATION

Catalogue no. <i>Glass bottles</i>		Catalogue no. <i>PETG bottles</i>	
OIL-50	50 ml	COIL-50	50 ml
OIL-100	100 ml	COIL-100	100 ml
OIL-250	250 ml	COIL-500	500 ml
OIL-500	500 ml		

General

IVF Basics® Cult-Oil is a ready-to-use, pre-washed, light mineral oil for use in IVF, ICSI and related ART procedures (d = 0.83-0.86 g/ml).

Intended use

A mineral oil overlay is intended to protect the culture medium from evaporation, thereby reducing harmful effects of increased osmolality. Secondly, mineral oil overlay reduces temperature and pH fluctuations when loss of CO₂ is experienced when taken out the culture dishes from the incubator for embryo micromanipulation or embryo assessment. Thirdly, in case multiple embryos are cultured in small media volumes with a mineral oil overlay it will enhance the concentration of autocrine growth factors secreted by the developing embryos, leading to enhanced rates of embryo development.

Using mineral oil to overlay cell culture media is first seen in the early 1960's during the culture of mammalian embryos. The oil permits small volumes of medium to be used for fertilization and embryo culture.

For professional use only.

Composition

Mineral Oil (EP Monograph 0240, CAS code: 8042-47-5)

Material not included

- Cell culture media (e.g. IVF Basics® HTF)
- CO₂ incubator (37°C)
- Petri dishes
- Test tubes
- Microscope
- LAF Bench (ISO 5 environment)

Quality Control

- Endotoxin: < 0,1 EU/ml
- Sterility: SAL 10⁻³
- Density: 0,830 – 0,860 g/ml
- Viscosity: < 30 cP at 30°C
- Peroxide Value: < 0.1 mEq/kg (POV)
- Mouse Embryo Assay ≥ 80% (blastocysts after 120h in culture)
- Use of Pharmaceutical grade mineral (paraffin) oil
- Certificate of Analysis and MSDS are available upon request

Sterility

Sterilized by using aseptic processing techniques.

STERILE A

Precautions and Warnings

Always work under hygienic conditions (LAF-bench, ISO Class 5) to avoid possible contamination.

Always wear protective clothing when working with specimens.

Handle all human, organic material as if potentially infectious.

Handle all human, organic material as if capable of transmitting HIV or hepatitis.

When the oil is removed from the incubator and placed at room temperature for an extended period of time the oil may appear cloudy. Once re-equilibrated, by placing the oil back in the incubator for multiple hours, the cloudiness usually disappears. In case the cloudiness does not disappear discard the product.

Pre-use checks

Do not use if the seal on the bottle is broken or open when the product is delivered.

Do not use if the product shows any signs of microbial contamination.

Storage Conditions

Store at 15° - 25°C.

(Storage at 2° - 15°C is allowed, but can cause turbidity which will disappear once the oil is warmed up again.)

Do not use after expiry date.

Do not freeze before use.

Keep away from (sun)light (Keep product in original packaging or protect from light when not in use).

Do not expose to sources of irradiation.

Product can be used safely up to 28 days after opening, when sterile conditions are maintained and product is stored at room temperature.

Stable during transport to elevated temperatures (≤ 37°C).

Technical Support



Gynotec B.V.

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Distributor



Instructions for use (Suggested procedures)

IVF Basics® Cult-Oil is pre-washed. No further preparations necessary.

IVF Basics® Cult-Oil can be used together with a bicarbonate-buffered media such as IVF Basics® HTF (Gynotec B.V.).

Instructions

- Preferably prepare the dishes/bottles with mineral oil one day before use.
- Incubate the dishes/bottles at 37°C in a CO₂ incubator. This way the mineral oil achieves the preferred warmth and becomes saturated with gas.
- In case bottles are used, do not close the cap on the bottle in order to allow gas exchange.
- Important notice: For further instructions, please refer to the validated procedures and protocols established in your laboratory.

SYMBOL	MEANING
	Catalogue number
	Batch code
	Use by (expiry date)
	Temperature limitations
	Sterile medical device processed using aseptic technique
	Consult instructions for use
	CE mark

Used Abbreviations

ART	Assisted Reproductive Technologies
ICSI	Intracytoplasmatic Sperm Injection
IVF	In Vitro Fertilization

Bibliography

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