



Technical data sheet

L-VIVO OIL

Low viscosity mineral oil

Cat. No.: LVO-720

Density: 0.082 – 0.86 g/cm³ at 25 °C.

Viscosity: Max 30 cS at 37.8 °C.

Color: Colorless, clear solution

Storage conditions: 15 – 25 °C., in the dark

Shelf life: 24 months

Sterility: Sterile filtered

Endotoxin: < 1 EU/ml

Mouse embryo assay: ≥ 80 % blastocysts after 120 hours.

Human sperm survival assay: ≥ 70 % sperm survival after 24 hours.

Peroxide value: < 0.1 mEq/kg

Composition: Available on request.

Recommended use:

- Respect storage conditions of the product.
- Do not use the product after its expiry date.
- Do not use the product packaging appears damaged or if the seal is broken.
- Store product in an area protected from light.
- Manipulate the product in aseptic conditions (e.g.: under laminar air flow).
- Wear clothes adapted to the manipulation of the product to avoid contamination (e.g.: gloves, mask, hygiene cap, overall, ... etc.).
- The product is intended to be used in vitro, in laboratory only.
- Do not use it in therapy, human or veterinary applications.

Application:

- Low viscosity mineral oil for use in In-Vitro Fertilization (IVF), Intracytoplasmic Sperm Injection (ICSI) and Assisted Reproductive Technologies (ART).
- Low viscosity mineral oil overlay is highly recommended during oocytes culture, oocytes denudation, fertilization of oocytes (either by IVF or ICSI), embryo culture and manipulation.

Directions for use:

- The use of an oil overlay is recommended when using reduced volumes of media to prevent evaporation and to insulate the media from changes to temperature, osmolality and pH.
- The primary function of an oil overlay is to prevent the culture medium from evaporation, which would result in increased osmotic pressure, and to avoid fluctuations in the pH and temperature.
- This fact is critical since variations in the pH of the medium may affect embryo metabolism, whereas osmotic stress may cause DNA and protein alterations that affect cell function.
- Oil should be equilibrated in a CO₂ incubator and warmed to 37°C for several hours (overnight) before use.

Indications of deterioration:

- Oil should be clear and free of particulate and flocculent material.

- Do not use if oil is cloudy or contains precipitate.
- Other evidence of deterioration may include color change or degradation of physical or performance characteristics.

