

GM501 SpermMobil

GYNEMED



- HEPES and bicarbonate buffered
- Dilute 1:20 with sperm processing medium
- For in-vitro examination of necrozoospermic ejaculates and immotile spermatozoa isolated from testicular tissue
- Contains Theophylline
- Can be used safely for up to 7 days after opening when stored at 2 - 8°C and sterile conditions are maintained
- A Certificate of Analysis for each batch is available at hamiltonthorne.com

GM501 SpermMobil Intended Use

GM501 SpermMobil is a HEPES buffered, HSA free reagent containing low bicarbonate. It is used for in-vitro examination of sperm cells of necrozoo-spermic ejaculates as well as of immotile sperms isolated from testicular tissue (TESE).

*GM501 SpermMobil is for non-clinical, research use only in USA.

GM501 SpermMobil Instructions for Use

- Warm to 37°C prior to use. GM501 SpermMobil is HEPES buffered. Incubation of GM501 SpermMobil in a CO₂-incubator will lower the pH.
- To facilitate sperm activation, add 1.5-2.0 µl of GM501 SpermMobil to sperm preparation-medium in the Petri-dish (approximate 30 - 40 µl / dilution 1:20).
- GM501 SpermMobil should be added to the opposing side from where the sperms are to be aspirated.
- Wait for 10 minutes. The activating effect will initiate after a few minutes and lasts for up to one hour.
- Any laboratory procedures described herein are recommendations only. Each laboratory must establish and validate its own procedures for preparation and use.

GM501 SpermMobil Composition

- NaCl, KCl, KH₂PO₄, MgSO₄, CaCl₂
- Bicarbonate, HEPES, EDTA
- Glucose, Lactate, Pyruvate
- Non-essential and essential Amino Acids, Alanine-Glutamine
- Theophylline, Phenolred

GM501 SpermMobil Specifications

pH (at 37°C)	7.20 - 7.60
Osmolality (mOsm/kg)	280 - 320
Sterility (sterile/SAL 10 ⁻³)	No Growth
Endotoxins (LAL, EU/ml)	< 0.25
Human Sperm Survival Assay (HSSA)	≥80% of Control Motility at 24h

Part #	Size	Storage	Shelf life*
4 GM 501SMOBIL5	1 x 5 ml	2 - 8°C	6 months
4 GM 501SMOBIL5-S	1 x 1 ml	2 - 8°C	6 months

*From the date of manufacture

GM501 SpermMobil Reference

Sandi-Monroy NL, Musanovic S, Zhu D, et al. Use of dimethylxanthine theophylline (SpermMobil®) does not affect clinical, obstetric or perinatal outcomes. Arch Gynecol Obstet. 2019;300(5):1435-1443. doi:10.1007/s00404-019-05312-8



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