

# GM501 Collagenase

- Ready-to-use
- HEPES buffered
- Digestion of human testicular tissue obtained by biopsy
- Facilitates isolation of sperm cells from TESE digestion
- Contains 1000 CDU/ml (Collagen Digestive Units)
- Contains Human Serum Albumin (5.00 g/liter)



## Intended use

GM501 Collagenase is a reagent for the digestion of human testicular tissue obtained by testicular biopsy (TESE) for in-vitro examination procedures. Using Collagenase, it is possible to degrade testicular tissue in single cells to facilitate the isolation of sperm cells.

## Composition

- NaCl, KCl,  $\text{KH}_2\text{PO}_4$ ,  $\text{MgSO}_4$ ,  $\text{CaCl}_2$
- Bicarbonate, HEPES, EDTA
- Glucose, Lactate, Pyruvate
- Non-essential and essential Amino Acids, Alanine-Glutamine
- Human Serum Albumin, Gentamicin, Phenolred
- Collagenase (obtained from culture filtrates of *Clostridium histolyticum*)

## Can be used in combination with

- GM501 SpermAir
- GM501 SpermActive

## Instructions for use

Do not equilibrate GM501 Collagenase in a  $\text{CO}_2$ -incubator, just warm it up to  $37^\circ\text{C}$ . GM501 Collagenase is HEPES buffered. Incubation in a  $\text{CO}_2$ -incubator will lower the pH.

*For further information see page 35.*

## Tested specifications

- pH
- Osmolality
- Sterility

Performing LAL-endotoxin- and MEA-tests is not possible with this medium as the activity of the Collagenase inactivates the enzymes (LAL) and damages the mouse embryos (MEA), which are used for these assays, respectively. The basic medium is LAL- and MEA-tested.

## References

- Wöber M., Ebner T., Steiner S. L., Strohm H., Oppelt P., Plas E., Obruca A. (2015) : A new method to process testicular sperm: combining enzymatic digestion, accumulation of spermatozoa, and stimulation of motility. Arch Gynecol Obstet 291:689-694

Ref. No.	Size	Storage	Shelf life*
4 COLL_AIR	1 x 3 ml	2 - $8^\circ\text{C}$	9 months

# GM501 SpermAir

- Ready-to-use
- HEPES buffered (21 mM)
- CO<sub>2</sub>-incubation is not required
- For all human sperm handling and preparation procedures
- Suitable for washing, swim-up and density gradient centrifugation
- For handling of testicular tissue
- Contains Gentamicin (10.00 mg/liter)
- Contains Phenolred
- Contains Human Serum Albumin (5.00 g/liter)
- CE marked class III (0344)



## Intended use

GM501 SpermAir is a ready-to-use medium designed for all human sperm preparation, sperm washing, swim up techniques and density gradient centrifugation as well as for testicular tissue.

## Composition

- NaCl, KCl, KH<sub>2</sub>PO<sub>4</sub>, MgSO<sub>4</sub>, CaCl<sub>2</sub>
- Bicarbonate, HEPES, EDTA
- Glucose, Lactate, Pyruvate
- Non-essential and essential Amino Acids, Alanine-Glutamine
- Human Serum Albumin, Gentamicin, Phenolred

## Instructions for use

Do not equilibrate GM501 SpermAir in a CO<sub>2</sub>-incubator, just warm it up to 37°C. GM501 SpermAir is HEPES buffered. Incubation in a CO<sub>2</sub>-incubator will lower the pH.

*For further information see page 16-17.*

## Tested specifications

- pH
- Osmolality
- Sterility
- Endotoxins
- MEA

Ref. No.	Size	Storage	Shelf life*
4 GM 501AIR+PR+G-20	1 x 20 ml	2 - 8°C	6 months
4 GM 501AIR+PR+G-50	1 x 50 ml	2 - 8°C	6 months

\* from time of manufacture

# GM501 SpermStore

- Ready-to-use
- HEPES buffered
- For freezing of human sperm (including epididymal and testicular sperm)
- Freezing 1.00 ml of semen with 0.70 ml of GM501 SpermStore
- Contains Glycerol and Sucrose
- Contains Human Serum Albumin (4.00 g/liter)
- CE marked class III (0344)



## Intended use

GM501 SpermStore is a antibiotic free medium for freezing human spermatozoa including epididymal or testicular sperm.

## Instructions for use

Ensure all media are mixed well and warmed up to room temperature before use.

*For further information see page 30.*

## Composition

- NaCl, KCl, MgSO<sub>4</sub>, NaH<sub>2</sub>PO<sub>4</sub>
- Bicarbonate, HEPES
- Glucose, Lactate, Sucrose
- Glycine
- Glycerol
- Human Serum Albumin

## Tested specifications

- pH
- Sterility
- Endotoxins
- Sperm Survival Test

Ref. No.	Size	Storage	Shelf life*
4 SCP-20	1 x 20 ml	2 - 8°C	18 months