



# MIII®

MEDIUM TERM

## Extender for medium term preservation of boar semen

The M III® formula contains antioxidants that prevent the damaging effect of metabolites in the conservation medium and thus guarantee the durability of the semen for a medium period of 4 to 5 days.

### Your benefits

- M III® is an ideal extender for the medium preservation time and maintains the quality of boar semen for 4 to 5 days.
- M III® contains antioxidants to prevent the ageing process of semen cells.
- Potent buffer system provides stable pH during the entire storage period
- M III® optimises fertility results during the first 48 hours compared with standard semen extenders.
- M III® is characterised by its excellent solubility.
- M III® is available with one or more antibiotics.
- The antibiotic mixtures allow an efficient control of a large spectrum of bacteria, especially those normally found at boar semen centers. The antibiotics are proven to be harmless for the sperm quality.
- Reliable supplier: GMP certified production

### Certificates

An all encompassing certificate of quality and a certificate of analysis for a specific batch are provided on request.

### Why are Minitube extenders safer?

Boar semen extenders are not all the same. The uniform and outstanding quality of the extender mixtures from Minitube is based on stringent quality control starting with each batch of raw material and ending with the final mixture. Before a given batch of extender can be approved for sale, chemical and physical tests are performed to prove purity of the components. In addition, independent tests with spermatozoa are done in the German reference laboratory to demonstrate the preservation properties of the final mixture.

We use GMP (Good Manufacturing Practice)-certified quality control standards at each stage of production. Our quality assurance measures combined with complete documentation at each stage in production guarantee security and success.





# M III®

MEDIUM TERM

## Packaging sizes

### M III® with Gentamicin

1 liter	REF. : <a href="#">13515/0001</a>
5 liters	REF. : <a href="#">13515/0005</a>
10 liters	REF. : <a href="#">13515/0010</a>
83 liters	REF. : <a href="#">13515/0083</a>

### M III® with Gentamicin, Aminoglycosid and Cephalosporin

1 liter	REF. : <a href="#">13515/8001</a>
5 liters	REF. : <a href="#">13515/8005</a>
10 liters	REF. : <a href="#">13515/8010</a>
83 liters	REF. : <a href="#">13515/8083</a>

## Literature

FRANGEŽ R., GIDER T., KOSEC M., 2004. Frequency of Boar Ejaculate Collection and its Influence on Semen Quality, University of Ljubljana, Veterinary Faculty, Ljubljana, Slovenia.

JOHNSON L.A., WEITZE K.F., FISER P., MAXWELL W.M.C., 2000. Storage of boar semen. Anim. Reprod. Sci. 62, 143 –172.

MINITUBE Manual, 2007. How to Process Boar Semen on Farm. Available upon request.

MINITUBE, Technical Report, DE ALBA ROMERO C, Minitub Ibérica, 2010. M III - the alternative extender for short-term boar semen preservation with excellent results. Available upon request.