ANDROMED®
EGG YOLK FREE MEDIUM FOR BOVINE SEMEN

The Laboratory Standard in Modern Bovine Semen Production

Your benefits

- No ingredients of animal origin
- No risk of microbiological contamination
- Efficient production protocols
- High fertility rates
- Broad application range
- ISO norm approved
- Produced under Minitube GMP production standard

AndroMed®, 200 ml with antibiotics GTLS according to the EC Directive 88/407
REF. : 13503/0200

AndroMed® CSS, 200 ml, one step, without antibiotics, according to CSS requirements
REF. : 13503/1200

Antibiotic Supplement GTLS, for 2-step extender, according to CSS protocol **REF. : 13500/0005**

Antibiotic Supplement GTLS, for 1-step extender, according to CSS protocol **REF. : 13504/9000**

Composition

AndroMed® contains phospholipids, TRIS, citric acid, sugars, antioxidants, buffers, glycerol and purest water. The standard version contains antibiotics according to the EC Directive 88/407 (Tylosin, Gentamicin, Spectinomycin, Lincomycin). AndroMed® CSS contains no antibiotics.

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ISO norm approved

Bovine semen production laboratories with a quality assurance system based on ISO 9001:2000 norms rely on AndroMed®. The GMP production standard applied to the extender concentrate ensures full traceability of every compound and production step.

The absence of components of animal origin (such as egg yolk) prevents unwanted batch variations or, even worse, unwanted influence of hormones, bacteria and drug residues. The risk arising from use of animal protein is therefore eliminated.

Industry standard

Since AndroMed® was first introduced in the year 2000, the number of bovine semen straws produced with AndroMed® medium worldwide has increased by several 100%. This extender has become a true laboratory standard in modern semen production, with more than 100 million semen doses processed worldwide each year.

Efficient production protocols

Preparation is simple: 800 ml of distilled water is added to the 200 ml content of one bottle of AndroMed®.
Microscopy is more efficient: AndroMed® is a highly transparent medium and delivers extremely clear semen cell images under the microscope. Ejaculates of questionable quality can be detected and evaluated easily based on a defined selection standard.

Broad application range

AndroMed® is also suitable for the preservation of liquid semen at +5°C to +10°C. In cell research, AndroMed® is recommended where spermatozoa serve as a model because of its standardized composition and suitability for semen evaluation with computer-assisted semen analysis (CASA) systems.

AndroMed® is also successfully used with semen of species other than bovine, especially ovine and caprine.

Certificates

A general quality certificate as well as a batch certificate are available upon request.

Production standard and QC

Raw materials are produced according to GMP and DIN ISO 9001 norms, and are certified after Ph Eur, BP or USP standards. They are tested according to international valid quality guidelines concerning the testing of pharmaceutical substances and meet these requirements. Each single component of each extender batch is tested chemically, physically and spermatologically under specialized veterinarian supervision for their adequacy for the semen conservation. Analysis certificates and testing protocols constitute full traceability.
Mixing and bottling of the extender is performed under GMP conditions in controlled atmosphere and documented with weighing records. The complete mixture is tested again chemically and physically for spermatologic adequacy as well as under practical conditions for the suitability for semen conservation under specialized veterinarian supervision, and by independent organizations.

Selected scientific publications

Aires, V., Hinsch, K.D., Müller-Schlösser, F., Bogner, K., Müller-Schloesser, S., Hinsch, E. (2003): *In vitro and in vivo comparison of egg yolk-based and soybean lecithin-based extenders for cryopreservation of bovine semen.* Theriogenology, 60, 269–279.

Herold, F.C., Gerber, D., Aurich, J.E. (2002): *Influence of homolgous seminal plasma on bovine epididymal semen frozen with Triladyl® or AndroMed®.* Wiener Tierärztliche Monatsschrift, 90, 8–61.

Janett, F., Fuschini, E., Keo, S., Thun, R. (2005): *Comparison of AndroMed® and TRIS-egg yolk extender for cryopreservation of buck semen.* ESDAR Conference, Murcia.

Nabiev, D., Gilles, M., Schneider, H., Mahabir, E., Wimmers, K., Ponsuksili, S., Koll, H., Schellander, H. & K. (2003): *Comparison of AndroMed® and tris-egg yolk extender bovine post-thaw sperm function parameters and in vitro fertility.* Theriogenology,1, 226.

Complete publication list available.

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