MEDIA FOR BOVINE SEMEN FREEZING

Extender concentrates for preparation of egg yolk containing media.

**Your benefits**

- Elaborate formula, based on TRIS
- Internationally established for over 30 years
- Constant, optimal freezing results at a wide range of dilution ratios
- CSS certified version without antibiotics available (Triladyl CSS® and Biladyl®)
- Produced under Minitube GMP production standard

**Composition**

Triladyl®, Triladyl® CSS and Biladyl® contain TRIS, citric acid, sugar, buffers, glycerol, purest water and antibiotics according to the EU Directive 88/407 (Tylosin, Gentamicin, Spectinomycin, Lincomycin). Triladyl® CSS contains no antibiotics.

- **Triladyl®**, 250 g with antibiotics GTLS, according to the EC Directive 88/407  
  REF. : 13500/0250
- **Triladyl® CSS**, 200 g without antibiotics, according to CSS requirements  
  REF. : 13500/1200
- **Biladyl**, fraction A, 49 g  
  REF. : 13500/0004
- **Biladyl**, fraction B, 250 g  
  REF. : 13500/0006
- **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
Industry standard

Since Triladyl® and Biladyl® have been introduced to the market, they have established themselves as the classic extenders in bovine semen production. Triladyl® and Biladyl® are also used successfully with ejaculates of several other species, e.g. ovine, caprine as well as with many exotic species.

Efficient production protocols

For the preparation of Triladyl® and Biladyl® distilled water and fresh egg yolk are added to the concentrate. The ejaculates can be diluted with a large range of variation in dilution ratio, without influencing the fertility results. Triladyl® and Biladyl® are being used successfully with low concentration dilution, as well as for bovine ejaculates with low density.

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.

Certificates

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

Selected scientific publications

Dumont P. (2002): Adjusting the number of spermatozoa in mini-straws by determination of the operative volume of bovine semen. Theriogenology, Apr 1; 57(6): 1743-54
Herold, F.C., Aurich, J.E., Gerber, D. (2003): Epididymal sperm from African buffalo (syncerus caffer) can be frozen successfully with AndroMed® and with Triladyl® but the addition of bovine seminal plasma is detrimental. Therioenology, in press

Complete publication list available on request.