



EQUINE semen sexing agent - MALE

INDICATIONS

For increasing the percentage of *male* foal in horses.

DOSAGE

Dilution ratio: 1 part COLTPLUS / 4 parts extended semen.

Recommended extension titer = 25×10^6 sperm/ml

Recommended extension volume = 20 ml

Recommended total insemination dose = 25 ml

Recommended # sperm/insemination = 500×10^6 live sperm

NOTICE

COLTPLUS is a non-prescription biopharmaceutical agent. Federal law does not require that this product be used by or on the order of a licensed veterinarian.

DESCRIPTION

COLTPLUS is a spermagenic sexing agent for enhancing stallion semen. Packaged in kit form, each vial is lyophilized and sealed to maintain potency during storage. The agent is activated by the addition of extender. After mixing with the semen and a short incubation, the sexed semen is ready for insemination.

MODE OF ACTION

COLTPLUS works by enhancing the fertility of only the Y-chromosome bearing (male) sperm while reducing the fertility of the X-chromosome bearing (female) sperm. When inseminated, the sperm are sorted in the reproductive tract of the mare. The result is more ova fertilized by the Y-chromosome bearing (male) sperm. The sex ratio is increased to 65-85% male foal and the overall pregnancy rate boosted 5-15%.

SEMEN DILUTION PROTOCOL

- Collect semen and determine semen parameters.
- Dilute with a suitable equine semen extender at the recommended sperm titer (25 million live sperm/ml in an extension volume of 20 ml).
- Do not add COLTPLUS prior to shipping of PRE-COOLED SEMEN.

NOTE: It is not possible to determine semen quality after mixing with COLTPLUS. Semen parameters must be determined in a parallel sample or prior to mixing with COLTPLUS.

MIXING INSTRUCTIONS – FRESH SEMEN

1. Warm semen extender and COLTPLUS vial to 95-98.6°F (35-37°C) to prevent cold shock to semen.
2. Rehydrate COLTPLUS vial with 5 ml of fresh extender. Gently mix.
3. Withdraw and transfer 5 ml of COLTPLUS into 20 ml of semen (1 part COLTPLUS: 4 parts semen. The final volume should equal 25 ml and the total number of sperm should be 500×10^6 live sperm.
4. Gently mix the COLTPLUS and semen.
5. **IMPORTANT:** Incubate COLTPLUS and semen for 10 minutes at 95-98.6°F (35-37°C) before insemination. **Do not exceed 30 minutes incubation.**
6. Load into insemination pipette and inseminate as usual.

INSEMINATION

- **Natural or synchronized heats:** Use frequent ultrasound examination of follicular development when using this product. Ultrasound at 6-8 hr intervals is recommended. For best results, inseminate 0-6 hours prior to ovulation or when follicular diameter is at or exceeds 35 mm.
- **IMPORTANT:** Do not use in early estrus (12-24 hrs prior to ovulation). This will reduce the effectiveness of this product.

STORAGE CONDITIONS

Store lyophilized product in freezer (-20°C). Avoid moisture and strong sunlight. Use immediately after re-hydration. Do not refreeze or store after dilution.

HOW SUPPLIED

COLTPLUS is lyophilized in the following package sizes: Single-dose (fresh) and 0.5 ml single-dose (frozen).

WARNINGS

KEEP OUT OF REACH OF CHILDREN.

Manufactured by:

 **EMLAB GENETICS, LLC** Arcola, IL 61910 USA

For more information, please call 708-442-3964 or log on to www.emlabgenetics.com

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