



## Equine semen sexing agent - FEMALE

### INDICATIONS

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

### DOSAGE

Dilution volume/vial = 5 ml

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

Recommended extension titer =  $25 \times 10^6$  sperm/ml

Recommended extension volume = 20 ml

Recommended total insemination dose = 25 ml

Recommended # sperm/insemination =  $500 \times 10^6$  live sperm

### NOTICE

FILLYPLUS 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

FILLYPLUS is a spermagenic sexing agent for sexing 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

FILLYPLUS works by enhancing the fertility of only the X-chromosome bearing (female) sperm while reducing the fertility of the Y-chromosome bearing (male) sperm. When inseminated, the sperm sort in the reproductive tract of the mare. The result is more ova fertilized by the X-chromosome bearing (female) sperm. The sex ratio is increased to 65-85% female 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 a final extension volume of 25 ml).

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

### MIXING INSTRUCTIONS – FRESH SEMEN

1. Warm semen extender and FILLYPLUS vial to 95-98.6°F (35-37°C) to prevent cold shock to semen.
2. Rehydrate FILLYPLUS vial with 5 ml of fresh extender. Gently mix.
3. Withdraw and transfer 5 ml of FILLYPLUS into 20 ml of semen (1 part FILLYPLUS: 4 parts semen). The final volume should equal 25 ml and the total number of sperm should be  $500 \times 10^6$  live sperm.
4. Gently mix the FILLYPLUS and semen.
5. Equilibrate FILLYPLUS 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.

NOTE: If sexed semen is chilled/shipped, use within 32 hours.

### INSEMINATION TIMING

- **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 0-4 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 (-15°C). Avoid moisture and strong sunlight. Use immediately after re-hydration. Do not refreeze or store after dilution.

### HOW SUPPLIED

FILLYPLUS is lyophilized in the following package sizes: Single-dose 0.50 ml and 25 ml.

### WARNINGS

**KEEP OUT OF REACH OF CHILDREN.**

Manufactured by:



For more information, please call 708-442-3964 or log on to [www.emlabgenetics.com](http://www.emlabgenetics.com)

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