



## OVINE Semen Sexing agent – FEMALE

PRODUCT: SHEEPPLUS-0.25

PRODUCT NO: SP025-01

### INDICATIONS

For increasing the percentage of female offspring in sheep

### DOSAGE

One 0.25 ml unit of semen per vial

### NOTICE

SHEEPPLUS is a non-prescription biopharmaceutical agent. Federal law (US) does not require that this product be used by or on the order of a licensed veterinarian. Please check with local regulations.

### DESCRIPTION

SHEEPPLUS is spermagenic agent for sexing ram semen. Packaged in kit form, each dose is sealed in a vial to maintain potency during storage. The agent is activated by adding semen directly to the SHEEPPLUS vial. The sexed semen is returned to the original straw and inseminated as usual.

### MODE OF ACTION

SHEEPPLUS works by enhancing fertility of the X-chromosome (female) sperm and reducing fertility of the Y-chromosome (male) sperm. After insemination, the sexed sperm sort in the reproductive tract of the ewe. The result is the ewe will have more ova fertilized by the X-chromosome (female) sperm. The percentage of female lambs is increased 20-25% (Ave.75%) and overall lambing rates can be increased from 5-15%.

### KIT INSTRUCTIONS

- Warm SHEEPPLUS vial to 95-98.6°F (35-37°C) to prevent cold shock to semen. Thaw semen as usual.
- Cut the end of semen straw at a 60 degree bevel.
- Insert the cut-end of semen straw through the rubber septum into the SHEEPPLUS vial.
- Add semen to vial by grasping both the vial and straw in the palm of the hand and snapping downward 3-4 times (similar to shaking a glass thermometer). Be certain all semen is in vial.
- Gently mix semen with contents of vial.
- When inseminating with straws, transfer the enriched semen back into the original straw by inverting and then shaking downward 3-4 times. When using laparoscopic insemination, incubate and store semen in vial.
- Incubate for **10 minutes** in a water bath at 95-98.6°F (35-37°C).
- Inseminate as usual.

NOTICE: Breed within 30 minutes of mixing with the SHEEPPLUS sexing agent.

### TIMING OF INSEMINATION

Please see the following breeding recommendations. Keep in mind that there can be considerable variation in onset of estrus and time of ovulation in sheep. Factors that modulate the reproductive cycle include breed, age, parity, nutrition, season, synchronization protocol, hormone regimen, and types of progestin implant. In general, when inseminating with frozen semen, apply SHEEPPLUS 4 hours prior to ovulation. With fresh semen, apply SHEEPPLUS 8-12 hours prior to ovulation. In naturally cycle ewes, the ovulation is approximately 24 ± 4 hours after onset of heat.

1. **ESTRUS:** When breeding from synchronized and/or natural heats, inseminate 12-20 hours after marking by vasectomized male.
2. **SPONGE:** When synchronized with progestin implant (pessary sponge) + PMSG (PG 600<sup>®</sup>, Folligon<sup>®</sup>) or FSH, inseminate 56-60 hours after progestin withdrawal.
3. **CIDR:** When synchronized with progestin implant (CIDR<sup>®</sup>) + PMSG (PG 600<sup>®</sup>, Folligon<sup>®</sup>) or FSH, inseminate 48-52 hours after progestin withdrawal.

### STORAGE CONDITIONS

Store desiccated in a freezer (-4°F; -20°C). Reseal unused product in packaging during storage.

### HOW SUPPLIED

SHEEPPLUS is lyophilized in the following package sizes: 0.25 ml and 0.5 ml single-dose vials for frozen or fresh semen. Multi-dose vials of 10 and 20 units are available for frozen semen processing.

### WARNINGS

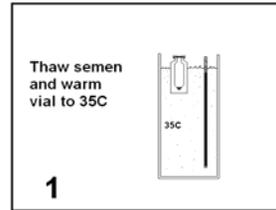
KEEP OUT OF REACH OF CHILDREN.

Mfg by: EMLAB GENETICS LLC, Arcola, IL 61910 USA

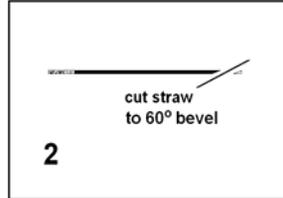
Questions? Call: 708-442-3964 Log on: [www.emlabgenetics.com](http://www.emlabgenetics.com)

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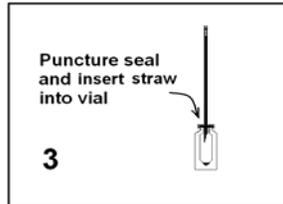
## KIT INSTRUCTIONS



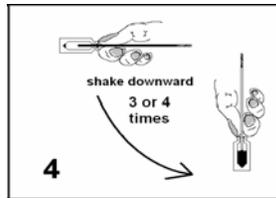
1. Warm the vial to 95-98.6°F (35-37°C) using a water bath, tube warmer or incubator for a few minutes (to prevent cold shock). Thaw semen as usual.



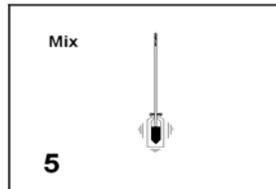
2. Cut straw to a 60° bevel with sharp scissors. Note: Remove paper label from top of vial.



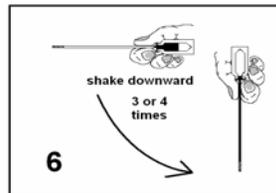
3. Puncture seal with 14 G needle and insert the cut-end of the straw into the vial.



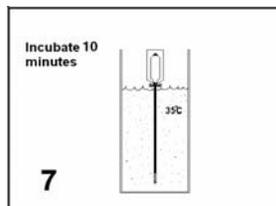
4. To add semen to the vial, grasp both the vial and straw in the palm of the hand and shake downward 3 or 4 times (similar to shaking a glass thermometer). Be certain all semen is in the vial.



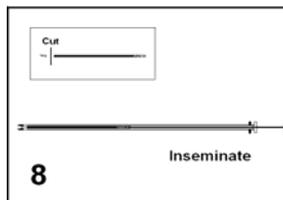
5. Gently mix semen with contents of vial.



6. Transfer the enriched semen from the vial back into the straw. Do this by grasping the vial and straw in an inverted position and again shaking downward 3-4 times. Be certain all semen is in the straw.



7. Incubate enriched semen at 95-98.6°F (35-37°C) for 5-10 minutes.



8. Remove straw from water bath. Dry. If necessary, cut bevel from straw. Load straw into insemination pipet. Inseminate according recommended protocols.