



Bovine semen sexing agent – FEMALE

INDICATIONS

For producing female calves in all breeds of cattle

DOSAGE

Each vial of HEIFERPLUS-5 will sex 5 straws of 1/4cc semen. The total volume = 1.25 ml (5 x 0.25 ml) of cryopreserved bull semen.

NOTICE

HEIFERPLUS is a biopharmaceutical laboratory reagent. Federal law (USA) does not require that this product be used by or on the order of a licensed veterinarian. Please check with local regulations.

DESCRIPTION

HEIFERPLUS is a semen additive for sexing frozen bull 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 HEIFERPLUS vial. After a short incubation, the semen is sexed and ready for insemination.

MODE OF ACTION

HEIFERPLUS works by enhancing the fertility of the X-chromosome bearing (female) sperm and slowing the motility of the Y-chromosome bearing (male) sperm. When inseminated, the sperm sort in the reproductive tract of the dam. The result is more ova fertilized by the X-chromosome bearing (female) sperm. The heifer sex ratio is increased to 85% and conception rates increased 15%.

KIT INSTRUCTIONS—FROZEN SEMEN

- Thaw 5 straws of frozen semen for 45 seconds at 95-98.6°F (35-37°C).
- To prevent cold-shock, warm the HEIFERPLUS vial to 95-98.6°F (35-37°C) for 1 minute. Use one vial per five straws.
- Open each straw by cutting at a 60-degree bevel.
- Puncture seal on vial with the 14G needle and insert cut end of straw into vial.
- Transfer semen into vial by “shaking” downward 3 or 4 times. This action is similar to shaking a glass thermometer. Be certain all semen is transferred into the vial. Repeat with each straw (5 straws per vial).
- Gently mix.
- Leaving the last straw in the vial, incubate HEIFERPLUS and semen in a water bath for 10 minutes at 95-98.6°F (35-37°C).
- While semen is incubating, cut the bevel from each straw to the final length. The final length of the straw should be 0.5 cm above the length of insemination gun.
- Transfer enriched semen from the vial back into the original straws. Do this by grasping vial and straw in an inverted position and “shaking” downward 3-4 times. Be certain all semen is transferred to straw. Repeat for each straw.
- Load into insemination gun and inseminate as usual.

Note: During incubation, keep vial sealed to protect semen from air and water.

TIMING OF INSEMINATION

- When breeding from observed heat (natural or synchronized): Breed heifers 16 hrs and cows 18 hrs following first standing heat.
- When timed breeding using OVSYNCH[®]: Breed heifers 12 hrs after the last GnRH injection. Breed cows 14 hrs after last GnRH.
- When breeding super-ovulated heifers and cows: With double inseminations - Breed at 16 hrs and 24 hrs following first standing heat. With single insemination - Breed 20 hrs after first standing heat.
- When timed breeding using progestins (CIDR/Crestor): Breed heifers 66-72 hrs and cows 68-74 hrs after removal of CIDR/Crestor implant.

NOTICE: USE OF THIS PRODUCT MAY REQUIRE A DELAY IN THE TIMING OF INSEMINATION. WAIT AT LEAST 16 HRS AFTER ONSET OF STANDING HEAT BEFORE INSEMINATION.

STORAGE CONDITIONS

Store desiccated in freezer (-15°C) until use.

HOW SUPPLIED

HEIFERPLUS is lyophilized in the following package sizes: 1, 2, 5, 20, 50, 100 units.

WARNINGS

KEEP OUT OF REACH OF CHILDREN.

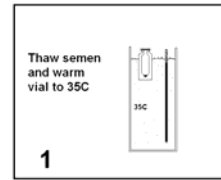
Manufactured by:

EMLAB GENETICS, LLC Arcola, IL 61910 USA

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

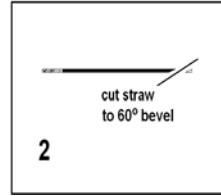
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KIT INSTRUCTIONS

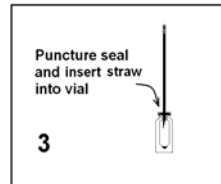


1. Warm the vial to 96-101.5°F (35.6-38.6°C) using a water bath, tube warmer or incubator for a few minutes (to prevent cold shock).

Thaw 5 straws of semen as usual.

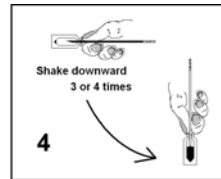


2. Remove from water bath. Dry. Cut each straw to a 60° bevel with sharp scissors.



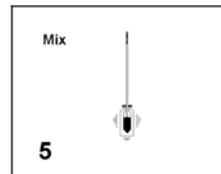
3. Puncture seal with tip of scissors and insert the cut-end of the straw into the vial.

- Repeat with each straw

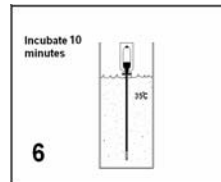


4. To add semen to the vial, grasp both the vial and straw in the palm of the hand and “shake” vigorously downward 3 or 4 times (similar to shaking a glass thermometer). Be certain all semen is in the vial.

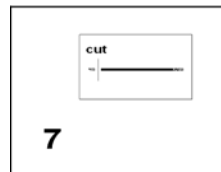
- Repeat with each straw.



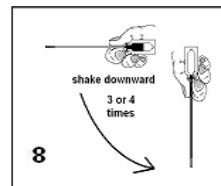
5. Gently mix all the semen with contents of vial.



6. Incubate the semen in water bath for 10 minutes at 95-98.6°F (35-37°C).

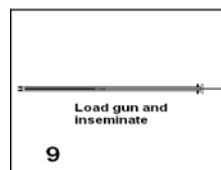


7. Before reloading the straws, cut bevel from each straw. Final length should be 0.5 cm longer than the gun chamber.



8. Transfer the enriched semen from the vial back into the straw. Do this by inverting the vial and straw, and “shaking” downward 3-4 times. Be certain all semen is in the straw.

- Repeat for each straw.



9. Load each straw into an insemination gun. Inseminate as usual.

