

HOOFSTOCK GENETICS  
4584 FM RD 570  
RANGER TX, 76470



### WHY REVERSE SORT?

Designate the desired sex of progeny.

Maximize value of ET calf crop.

Maximize recipient value.

Utilize bulls that only have conventional semen available.

Reduce the generation interval by selecting for females.

### PRICING \$/EMB

1-100 emb/ month \$80

101-250 emb/ month \$60

250+ emb/ month \$50

### Schedule Today

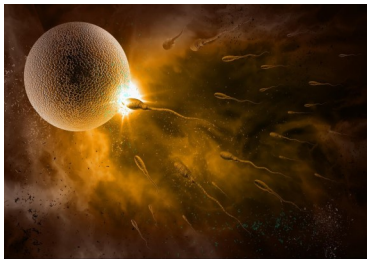
Office 817-565-7094

For Q&A with a Hoofstock rep visit our page on Facebook or call:

817-613-6095

## Guidelines for Reverse Sort IVF

Reverse Sort technology creates the ability to utilize conventional frozen semen, sorting the male and female sperm for use in IVF. The result is 90+% accuracy for desired sex. As powerful as the technology may be, the logistics and details must be managed precisely to achieve success. The following guidelines will minimize risk of failure, although, when altering nature with science, outcomes can be extremely variable even when procedures are followed by the book.



- Schedule in advance. We recommend scheduling your donors 4-6 weeks ahead of time. Daily timeslots will be limited. Donors arriving late to their OPU timeslot may be subject to rescheduling.
- Provide excess straws of semen and always have a backup plan for conventional fertilization if the primary bull doesn't sort. Semen must arrive the same day as OPU or earlier.
- Be extremely clear what sex you are targeting. Hoofstock will provide a work order form.
- Donors with less than 10 viable (A, B, and C quality) oocytes will need to be pooled\* with other donors to qualify for reverse sort.
- Pooling oocytes may be necessary if a large number of donors are requested for a single session.
- Embryo production following the reverse sort process may be reduced when compared to conventional semen.

\*Pooling is when oocytes from multiple donors are combined for fertilization and culture. The resulting embryos will be a mixture of genetics, therefore, progeny will need to be DNA verified for parentage. Pooling increases the number of oocytes that can be used per straw of semen and increases the number of donors due to time constraints.

## Details for semen use...

- 2 straws minimum for primary bull
- 2 straws for alternative bull as back up plan for reverse sort or conventional fertilization
- 1 quality sorted straw can fertilize up to 5 donors or pooled groups of oocytes
- A minimum of 1.5 hours between OPU donors/donor groups is required to change sires
- Rejected straws are at the discretion of the technician operating the sorting machine.
- If time allows for alternative bulls to be sorted, an attempt will be made. If not, fertilization will proceed with conventional semen.
- OPU will be scheduled for afternoon when new sires or sires with known poor sorting history are to be used. This allows for extensive troubleshooting without disturbing the daily schedule.