

Instructions of Bovine Embryo Biopsy for PCR Sexing

Renova Life Inc.
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(1) Receiving your sampling kit

- Your sampling kit contains the following items:
 - 20 PCR tubes (0.2 mL, containing 5 μ L sterile nuclease-free distilled water)
 - One zip loc bag
 - One ice pack
 - One Styrofoam box (the inbound container)
 - One cartoon box (the inbound container)
 - One copy of this instruction (embryo biopsy form included)
- Please store the ice pack at -20 °C freezer.
- Please place the PCR tubes in the 4 °C refrigerator. Other items can be stored in room temperature.
- Please make sure the ice pack is ready for use (i.e. frozen) on the day of your sample shipment date.

(2) Embryo biopsy

- A skilled embryologist is needed to perform the embryo biopsy work. A detailed description of the procedure is described in the article published by Almodin et al (Fertility and Sterility, 84 (4), 895-899, 2005). The article is available for purchase at \$31.50 at [http://www.fertstert.org/article/S0015-0282\(05\)01254-9/abstract](http://www.fertstert.org/article/S0015-0282(05)01254-9/abstract).
- Biopsy on blastocyst stage embryo is recommended.

(3) Process the biopsied blastomeres

- Clearly mark the 0.2 mL PCR tube label with embryo ID# and date of collection. Due to the small area on the 0.2 mL tube, we recommend you mark both the side and the top of the tube.
- Wash the selected one to two blastomeres (from the same embryo) 3-5 times in DPBS (provided in the kit).
- Transfer the blastomeres with minimal volume to the 0.2 mL PCR tube containing 5 μ L sterile nuclease-free distilled water (provided in the kit).

- Repeat the above steps for biopsies of all remaining embryos. Pack all the PCR tubes into a Zip loc bag (provided in the kit). Clearly fill the label on the zip loc bag. Fill the embryo biopsy form (provided in the kit).

(3) Ship the sample to RLI laboratory

- Important: to avoid weekend delivery, please arrange shipping out your samples on Mon or Tues using Next Day shipment.
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- Place the zip loc bag containing all sampled PCR tubes in a Styrofoam box (recommend to reuse the Styrofoam box and the cartoon box we used for shipping the sampling kit to you).
- Place the ice pack into the same Styrofoam box.
- Place the filled embryo biopsy form of your sampling.
- Seal the shipping box.
- Use next day courier and ship to:
Renova Life Inc.
PCR Service
387 Technology Drive, Suite 2116
College Park, MD 20742
Phone: 301-246-0868
Fax: 301-576-5078
Email: info@renovalife.com
- We appreciate if you inform RLI via email (info@renovalife.com) of your shipment, and provide the tracking number.

Reference:

- Almodin et al, Fertility and Sterility, 84 (4), 895-899, 2005.
[http://www.fertstert.org/article/S0015-0282\(05\)01254-9/abstract](http://www.fertstert.org/article/S0015-0282(05)01254-9/abstract)

Label on the zip loc bag:

Customer name: _____
 Customer organization: _____
 Number of total tubes packed: _____
 Date of biopsy: _____
 Technician initial: _____

