JUNO GENETICS TROPHECTODERM BIOPSY WASHING AND LOADING INSTRUCTIONS

PROVIDED COMPONENTS:

Sample submission form
Shipping container/cooler
Freezer pack (to place at the bottom of the cooler)
1.5ml Tube of Wash Buffer
PCR tubes
PGTseq biopsy box for PCR tubes
Zip bag for PGTseq Box

INSTRUCTIONS:

1. Upon receipt, store the Wash Buffer in a refrigerator (4°C) and the ice pack in a freezer (-20°C).
2. Wear gloves and avoid contamination of PCR tubes at all times.
3. Place PCR tubes in provided PGTseq biopsy box.
4. Shake or vortex Wash Buffer.
5. All sample tubes must be labelled on the lid with patient initials and embryo number.

6. Using nuclease and nucleic acid free filter tips (e.g. Eppendorf 0.1uL to 2.5uL pipette, cat#22471856, with Eppendorf epT.I.P.S., cat#22493000) preload a maximum of 1uL of Wash Buffer to all 0.2 mL nuclease-free PCR tubes to be used.
7. For each biopsy, make 3 x 50uL drops of Wash Buffer in a 1029 Falcon dish lid. Use a 100um stripper tip and set the stripper setting to 1uL. Back load 1uL Wash Buffer into your stripper tip, go to your biopsy dish and expel the Wash Buffer over the piece of trophectoderm cells (backloading the Buffer will help prevent the cells from sticking inside your stripper tip). Pick up the cells, rinse off the oil from outside of tip on the top of the first wash buffer drop, bring the tip to the bottom of drop, then pipette the cells in and out for ~10 times, and wash the cells in the second and third buffer drop by pipetting in and out ~10 times. Pick up the cells with minimal Buffer and expel into the PCR tube (with pre-aliquoted Buffer). It is important to visualize under the dissecting scope while expelling the cells into the tube. Stop expelling as soon as you see the TE cells enter the tube. Using this method, load cells with less than 1uL of additional Buffer - keeping the final total volume in the PCR tube very close to or less than 2uL. It is also important to minimize the amount of oil that is put into the PCR tube, which can affect the results.
8. Centrifuge the tubes to collect the buffer droplet containing the biopsy at the bottom of the tube and place them back in the PGTseq biopsy box.
9. Securely place the completed Patient Details Card in the plastic sleeve of the PGTSeq biopsy box and place the entire box in the provided zip-lock bag.
10. The box should be then placed in the shipping cooler with frozen ice packs. Please place the box flat and cover any empty space with either extra ice packs or bubble wrap to keep the biopsy box in place during transit.
11. Include completed sample submission in the shipment.