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Version#	2.1		
Author	G Cutts	Authorised by	D Babariya

TROPHECTODERM BIOPSY INSTRUCTIONS FOR PGT

1. Biopsy kit

The biopsy kit that should always be used is that provided by Juno Genetics as they are specially cleaned in a contaminant-free environment. Juno Genetics cannot guarantee the results following the use of a biopsy kit provided by other laboratories. Please ensure that all biopsy kit components have been stored at the correct temperatures (for more details please check Juno Biopsy Kit instructions form).

2. Additional items required (not provided in the kit)

- Micropipettes for washing biopsied cells
- Sterile petri dishes (recommended to open a new pack)
- Permanent marker pen (preferably black)
- PCR cooler (ice rack) to keep biopsied samples after tubing in provided tubes until freezing

3. Contamination

In order to avoid the introduction of any contaminants (sperm or cumulus cells) into the sample tube, especially for PGT-M cases, it is highly recommended to use ICSI and all cumulus cells should be stripped from the zona pellucida prior to performing the biopsy.

4. Biopsied cells washing and preparation

Please follow the biopsy and cell washing procedures from your laboratory. However, please do not use oil in the biopsying and washing process as residual oils can have an adverse effect on DNA amplification.

- The final volume in the biopsy tube should ideally be approximately 1.5 µl, but no more than 2 µl. Excess volume can have a negative impact on results and potentially lead to “no result”.


5. Tube labelling

Juno provides unique barcodes for the purposes of biopsy tube labelling. The unique labels are in an alphanumeric format, with each clinic assigned a specific letter, followed by numbers. The letter assigned for your clinic will be emailed to you when we send the first batch of labels.

- Each unique tube label is provided in duplicates, as shown below:

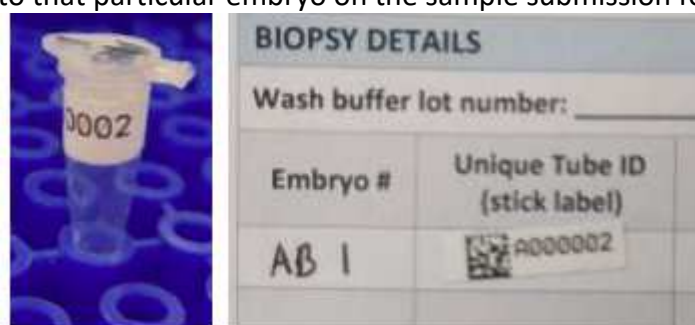


- The top of the biopsy tube must be labelled in PERMANENT PEN with the patient initials and the embryo number.

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- Thereafter, a unique label should be pasted horizontally onto the side of the PCR tube containing the embryo biopsy and the corresponding label on the sample submission form. The label on the tube must always match the code of the label associated to that particular embryo on the sample submission form.



- In addition to the labels, the sample submission form should have the following information completed for each biopsy: Embryo number and initials, embryo grade, biopsy day (5/6/7), biopsy date, biopsy performed by, and loading performed by. • A completed sample submission form should accompany the biopsies in the shipping box sent to Juno Genetics.

6. Kit packaging

- Following completion of biopsy of all embryos from one case, place all tubes in the PCR rack included in the kit provided by Juno Genetics.
- Place the samples for **one patient only** in each biopsy box.
- Fill in the patient details card with the patient's name, DOB and ID. Place the completed card into the slot on the top of the biopsy box.
- Refer to the "Juno Biopsy Kit Instructions" for details on how to package and send the biopsy kits.

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7. Shipping of samples

When samples are ready to be shipped, contact the courier company and arrange for the pickup. Make sure that the service selected is for overnight delivery or the quickest possible delivery time. Samples should be shipped to:

Juno Genetics
Hayakawa Building
Edmund Halley Road
Oxford Science Park
Oxford
OX4 4GB, United Kingdom