

PROCEDURE: Mailing Live Cultures for Karyotyping

PREPARING CULTURE FOR MAILING

1. Passage the cells to a T-25 culture flask as you would under normal conditions. Seed the culture with 600,000 to 800,000 cells. *Please Note: If you are growing cells on a feeder layer or an extracellular matrix (Matrigel) make sure that the matrix is fresh.*
2. Feed the culture as usual. The culture is ready to mail usually 2-4 days after subculturing, when 60-70% confluent with large colonies that can be seen macroscopically. The cultures must be actively dividing (in log phase) when you mail them. See Appendix A for example images.

MAILING INSTRUCTIONS

1. Fill the culture flask to the top with complete media, tighten the cap, and seal with Parafilm. Place 25 mL of complete media in a 50mL tube and seal with Parafilm. Addition of serum at 10-15% in the media may help in the reduction of cells that lift during shipping.
2. Wrap the T-25 flask and media tube in absorbent paper toweling and place them in separate leak proof zip-lock bags. Wrap each bag in bubble wrap.
3. Place culture flasks, media tubes, Test Requisition Forms (one per sample) in a small Styrofoam box. Fill the box with bubble wrap or additional absorbent material so that the contents will not move during shipping. During the winter months, addition of temperature control packaging (ex – Saf-T-Pak Phase control Material) can help reduce the chance the culture is exposed to low temperatures.
4. Place the Styrofoam box inside a slightly larger cardboard box and seal with packing tape. SHIP AT ROOM TEMPERATURE. Do not ship on ice packs or cold packs.
5. Send the package to Cell Line Genetics by next-day delivery service (FedEx Priority Overnight or UPS Next Day Air). Email our laboratory with the tracking number and the shipment delivery date. **Please note: CLG does not accept shipments on Saturday or Sunday**

MAILING ADDRESS

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CONTACT INFORMATION

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Appendix A – Example Images

iPSC Culture in optimal condition for submission - pinpoint sized colonies visible by the naked eye.



Fibroblast culture in optimal condition for submission – 70% confluent, actively dividing.

