Mailing Samples for Karyotyping

SPECIMEN REQUIREMENTS

- Samples can be sent either as live cultures or suspension cultures
- Current account holders: Log in at www.CLGenetics.com to place your order.
  Organizations without an account: Visit the same link and select “Sign Up” to register and request access.
- **Place an order**
  Save time: Before ordering, click Cell Lines in the left menu, then My Cell Lines. Enter your cell line information and click + to save it. You can reuse this information for multiple services.
  1. Choose a service and click Add to Cart.
  2. Enter the sample information or select a saved cell line, then click Add to Order.
  3. Repeat for each sample or service. If a sample needs more than one service (such as KT and STR), add each service separately using the same sample name. You can use the saved cell line information for both.
  4. Review your cart to make sure all samples and services are included. Then check out and submit your order.
  5. Print the requisition forms provided after checkout and include them with your shipment.
- **Please note that Cell Line Genetics cannot receive samples on Saturday or Sunday**

LIVE CULTURES

- Passage the cells to a labeled T-25 culture flask as you would under normal conditions. Seed the culture with 600,000 to 800,000 cells. If you are growing cells on a feeder layer or an extracellular matrix, make sure that it is fresh
- Feed the culture as usual. The culture is usually ready to mail two to four 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
- **Cultures below 60–70% confluency should be held by the customer until they meet the submission criteria. Confluent or overgrown cultures should be split and allowed to grow until they meet the submission criteria before shipping.**
- Fill the culture flask to the top with complete media, tighten the cap, and seal with Parafilm. Label the flask with a unique cell line identifier. Ensure that the sample names perfectly match on the flask and Test Requisition Form
- Place 25mL 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
- Wrap the T-25 flask and media tube in absorbent paper toweling and place them in separate leak proof plastic bags. Wrap each bag in bubble wrap
- Place culture flasks, media tubes, and printed 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 Change Material) can help reduce the chance the culture is exposed to low temperatures
- Place the Styrofoam box inside a slightly larger cardboard box and seal with packing tape. **Ship at room temperature. Do not ship on ice or cold packs**
- Ship the package via next-day delivery service to Cell Line Genetics at the mailing address listed below
- Contact Cell Line Genetics using the email address listed below to inform us of the expected delivery date and to provide a tracking number if possible

SUSPENSION CULTURES- Blood / Lymphocytes Only

- Transfer 500,000 to 700,000 actively dividing cells to a labeled 15mL tube. To obtain metaphase chromosomes used in karyotyping, all cultures must be actively dividing (in log phase) when you ship them
- Fill tube to the top with prewarmed complete media, tighten the cap, and seal with Parafilm. Label the tube with a unique cell line identifier. Ensure that the sample names perfectly match on the tube and Test Requisition Form
- Wrap the tubes in absorbent paper toweling and place each sample in separate leak proof plastic bags. Wrap each bag in bubble wrap
- Place cultures and 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, the addition of temperature control packaging (ex – Saf-T-Pak Phase Change Material) can help reduce the chance the culture is exposed to low temperatures
- Place the Styrofoam box inside a slightly larger cardboard box and seal with packing tape. **Ship at room temperature. Do not ship on ice or cold packs**
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CONTACT INFORMATION

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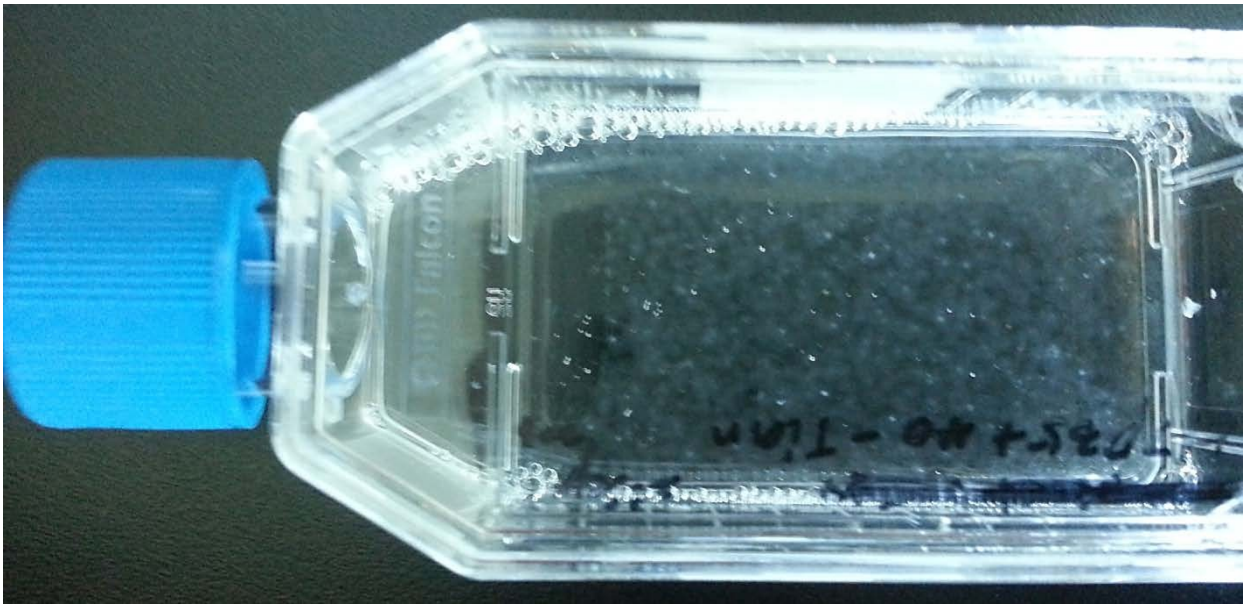
Fax: (608) 441-8162
Lab@CLGenetics.com
Support@CLGenetics.com

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 – 60–70% confluent, actively dividing.

