



## **Instructions for Drawing and Shipping a Blood Sample for Lymphocyte Storage and Transformation**

**Objective:** To mail blood samples safely according to Department of Transportation (DOT).

**Equipment Needed:** Blood specimen mailer kits, Federal Express airbill, biohazard specimen bag

### **Procedure:**

**Note:** the blood draw should take place as early as possible in the day in order to arrange for an early federal express pick-up. This will ensure a priority overnight delivery.

1. Draw the blood into two 8.5 ml ACD (yellow top) vacutainer tubes.
2. Use a 21 1/2 gauge vacutainer needle. Do not use small-bore needles such as gauge 23 or 25 as they increase the chances of cell lysis. If you prefer to use a butterfly needle, please use a 21 gauge vacutainer.
3. Record the following on the tube: Date of blood draw PI's name/Study Patient designation (no names please) Patient number (no patient history numbers or social security numbers please)

*We suggest that the alphabetic code be 3-6 characters and that the numeric code is no more than 9 digits. Note: Patient designations and numbers will be entered into our database. Typewritten information and bar-coded information is preferred. If not able to type or use bar-coded labels please make effort to write clearly*

4. Blood should be shipped at room temperature (22°C - 24°C). Place each tube in a separate biohazard zip-lock bag or multi-tube styrofoam container. Place all tubes in a styrofoam container and seal with several wraps of tape.
5. Ship blood according to Dept of Transportation regulations for noninfectious biologicals using DOT/IATA packing Instructions 650 (See website referenced). Attach the express airbill to the outside of the package. Mark the "FedEx Priority Overnight" box on the airbill to have blood delivered by the next business morning. Contact Federal Express toll-free at 1-800-463-3339 to arrange for a pick-up.
6. Submit a request from for requested services to bioshipping@jhmi.edu

### **Reference:**

Penno, MB ; Krueger, MP ; and Ray, TY. Instructions for drawing and shipping a blood sample for lymphocyte storage or transformation. J. Tissue Culture Methods 15:43-48, 1993 DOT/IATA packing Instructions 650  
[www.cdc.gov/ncidod/monkeypox/pdf/specimensguide.Pdf](http://www.cdc.gov/ncidod/monkeypox/pdf/specimensguide.Pdf)

### **Ship all Specimens to:**

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