

Standard Operating Procedure: Biospecimen acquisition for flash-freezing

1. Consent

All donors must sign the USF Neurosurgery Tissue Bank consent and HIPAA authorization form prior to surgery. This allows for the collection of both blood and tissue from the patient. A signed, UCSF surgical authorization (research box checked) only allows for the collection of tissue removed as part of the routine procedure.

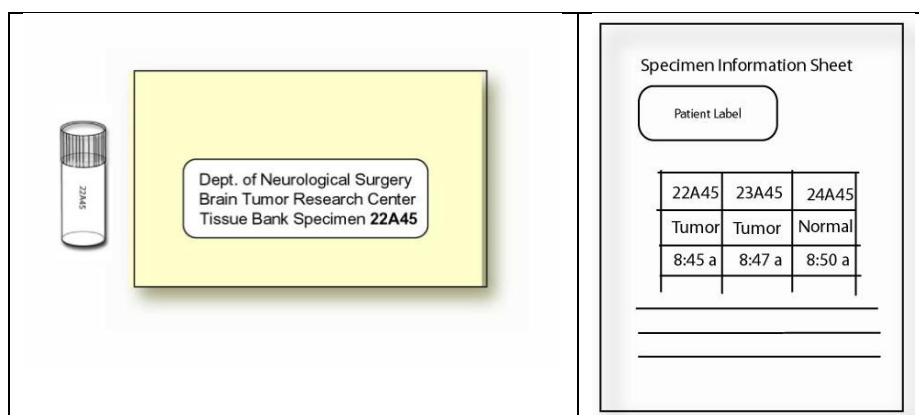
2. Blood

Tissue Bank blood tube kits are available in LXXX. Collect 1 SST tube (black & red) for serum and 1 K₂ EDTA tube (lavender top) for whole blood collection. Blood is collected prior to the skull opening through existing lines. For passive submissions, please place blood tubes in the Research Refrigerator. These will be picked up and processed by Tissue Bank staff. For processing, see (Blood Collection & Processing SOP).

3. Acquisition of tissue for flash-freezing in liquid nitrogen (LN₂)

In all cases excess tissue is designated for research only after sufficient tissue for all diagnostic analysis and evaluation is obtained. The surgeon selects appropriate areas of viable tumor for banking.

- A. Tissue collection kits (A pair of uniquely labeled cryovials, vial ID card and specimen info sheet) can be found in LXXX. More than 1 set of cryovials can be used for each surgical case, but remember to attach the corresponding index cards to the specimen sheet.
- B. Place tumor tissues in the uniquely numbered cryovials and immediately flash-freeze in liquid nitrogen using a portable dewar. Dewars and LN₂ are available in LXXX.
- C. Fill out specimen form: patient label, date, time of removal, type of tumor, tumor location, time on ice, and time in liquid nitrogen, etc. Attach the index card to the specimen sheet.
- D. Transfer frozen to the main storage canister in LXXX along with corresponding paperwork.



Tissue Collection Packet – cryovial vial, index card and specimen sheet