**Specimen Guidelines**

For life sciences partners only. Providers, please use the Tempus Oncology Specimen Guidelines.

To ensure the highest probability of success for molecular profiling, please follow the specimen guidelines below when submitting tumor samples.

**SOLID TUMOR TISSUE REQUIREMENTS**

- **XT**
- **xE**

  1. Per CAP guidelines, patient material must be labeled with two identifiers.
  2. Tumor samples should be from the most recent procedure, if adequate for testing.
  3. FFPE Fixation Requirements:
     - 10% formalin fixation (neutral buffered) for 6–72 hours, paraffin embedded
     - EDTA is the only accepted method of decalcification
  4. Tumor required to be at least 20% of the sample by ratio of tumor nuclei to benign nuclei.
  5. Required to be at least 40% for xE clinical panel, at least 50% for xE research panel.
  6. Optimal tumor size = 25 mm², minimum = 5 mm²

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**BLOCKS**

(Preferred collection method)

1. FFPE block with greatest tumor content.
2. If Tempus quality evaluation is requested, please send multiple blocks with a return address.

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**SLIDES**

(5μm sections on positively charged, unbaked slides)

1. FFPE unstained slides
2. Submit 10 additional slides if tissue size is <25 mm².
3. Additional blank slide OR an H&E.
4. Additional FFPE unstained slides when DNA mismatch repair (MMR) protein panel IHC is ordered.
5. Additional FFPE unstained slides when PD-L1 IHC is ordered.

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**CIRCULATING HEMATOLOGIC MALIGNANCY REQUIREMENTS**

- **XT**
- **xE**

Please send Complete Blood Count (CBC) with differential, flow cytometry results, and/or bone marrow pathology report.

1. At least 20% tumor content.
2. Specimen must ship to Tempus via FedEx Overnight on the same day it is collected.
3. No freezing of the samples is preferred.

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**BONE MARROW**

1 mL minimum bone marrow aspirate in an EDTA tube (lavender top).

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**PERIPHERAL BLOOD**

8 mL minimum peripheral blood in an EDTA tube (lavender top).
NORMAL SAMPLE REQUIREMENTS

**BLOOD OR BONE MARROW**
8mL fresh blood OR 1mL bone marrow in one of the following tube types:
- K2 or K3 EDTA Tube
- Streck Tube

**SALIVA**
650 µL saliva in Oragene Collection Kit

**TISSUE**
1 FFPE block of normal tissue
  - e.g. negative margin from a surgical procedure
  - Optimal tissue size >= 25mm²

LIQUID BIOPSY REQUIREMENTS

**BLOOD**
8mL fresh blood in Streck CELL-FREE DNA BCT© tube.
  - Must be received within 3 days of collection

**FROZEN PLASMA**
4-10 mL frozen plasma double-spun to remove buffy/RBCs and cells/cell debris.

**EXTRACTED cfDNA**
50ng cfDNA extracted from double-spun plasma

Sending Samples

Send via priority overnight shipping using the packaging included in the Tempus collection kit.

Attention:
Tempus Labs
600 West Chicago Ave, Suite 510
Chicago, IL 60654

To order Tempus tissue collection kits, contact your Tempus representative or contact us at support@tempus.com or 800.739.4137.

If providing a non-preferred sample type, please contact our support team at 800.739.4137 before shipping samples.