

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



- Per CAP guidelines, patient material must be labeled with two identifiers¹
- Tumor samples should be from the most recent procedure, if adequate for testing²
- FFPE Fixation Requirements:
 - 10% formalin fixation (neutral buffered) for 6–72 hours, paraffin embedded
 - EDTA is the only accepted method of decalcification**
- Tumor required to be at least 20%³ of the sample by ratio of tumor nuclei to benign nuclei⁴
 - Required to be at least 40% for xE clinical panel, at least 50% for xE research panel
- Optimal tumor size² = 25 mm², minimum = 5 mm²

¹ Specimens received with only 1 identifier may experience delays in report delivery.

² Specimens older than 5–6 years or smaller than 5 mm² are more likely to be insufficient for testing and/or require longer processing times.

³ If providing a non-preferred sample type or if you have questions regarding normal-matched sequencing for hematological malignancies or leukemias, please contact our support team before shipping samples.

⁴ Required to be at least 40% for xE panel.

CIRCULATING HEMATOLOGIC MALIGNANCY REQUIREMENTS



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

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

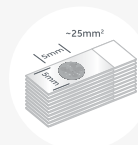


BLOCKS

(Preferred collection method)

- 1 FFPE block with greatest tumor content

If Tempus quality evaluation is requested, please send multiple blocks with a return address.



SLIDES

(5µm sections on positively charged, unbaked slides)

- 10 FFPE unstained slides

Submit 10 additional slides if tissue size is <25 mm²

- 1 Additional blank slide OR an H&E

- 6 Additional FFPE unstained slides when DNA mismatch repair (MMR) protein panel IHC is ordered

- 3 Additional FFPE unstained slides when PD-L1 IHC is ordered



BONE MARROW

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



PERIPHERAL BLOOD

- 8mL minimum peripheral blood in an EDTA tube (lavender top)

NORMAL SAMPLE REQUIREMENTS



BLOOD OR BONE MARROW

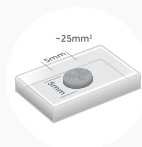
8mL fresh blood OR 1mL bone marrow in one of the following tube types:

- 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 $\geq 25\text{mm}^2$

LIQUID BIOPSY REQUIREMENTS



BLOOD

8mL fresh blood in Streck CELL-FREE DNA BCT® tube.

Must be received within 3 days of collection

RESEARCH
USE ONLY

FROZEN PLASMA

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

RESEARCH
USE ONLY

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.