

Specimen Guidelines

FoundationOne® can help you determine next steps for the care of your patients by accurately detecting all classes of genomic alterations. Below are Specimen Guidelines to help ensure successful genomic profiling.

Selecting the Best Specimen from Multiple Options

Has the patient received any systemic therapy for their cancer?

NO → Use recurrence or original resection (most recent material preferred).
Metastasis biopsy or primary tumour acceptable (choose site with highest percent tumour or largest tumour focus).

YES → MUST use post-systemic therapy specimen, if available.

Acceptable Samples

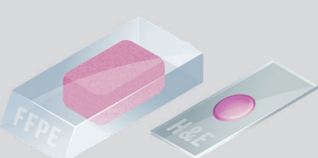
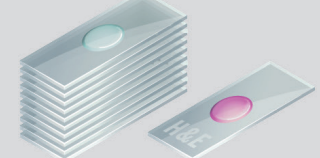
- FFPE specimens, including core needle biopsies, fine-needle aspirates and effusion cytologies.
- Tissue should be formalin-fixed, paraffin embedded. Use standard fixation methods to preserve nucleic acid integrity. 10% neutral-buffered formalin for 6-72 hours is industry standard. **DO NOT** use other fixatives (Bouins, B5, AZF, Holland's).
- Do not decal. When decalcification is required, EDTA is recommended. Do not use strong acids (e.g. hydrochloric acid, sulfuric acid, picric acid).

1 SAMPLE TYPES

When feasible, please send the block + 1 original (not recut) H&E slide.

OR

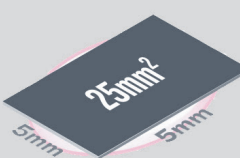
10 unstained slides (positively charged and unbaked at 4-5 microns thick) + 1 original (not recut) H&E Slide.

2 SAMPLE SIZE SURFACE AREA

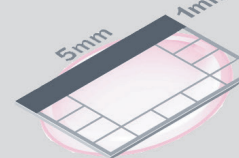
Optimal: 25 mm²

If sending slides, provide 10 unstained slides cut at 4-5 microns thick.



Minimal: 5 mm²

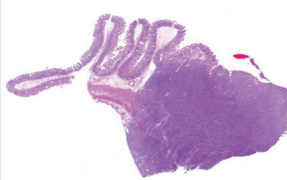
For small (<25mm²) or impure samples, additional unstained slides may be needed to extract sufficient DNA for testing.



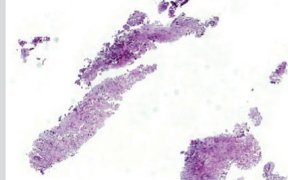
3 TUMOUR NUCLEI PERCENTAGE

Optimal: 30% Minimal: 20%

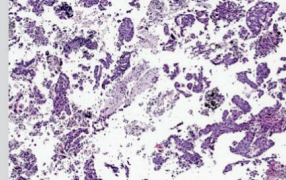
Percent tumour nuclei = number of tumour cells divided by total number of all cells with nuclei.*



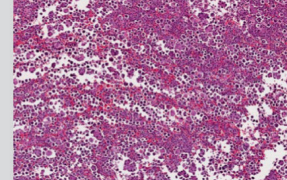
Resection



Small Biopsy



Fine Needle Aspiration (Cell Block)



Fluid Exfoliative Cytology (Cell block)

* Liver specimens may require additional tumour.