

Tumor Specimen Requirements

FOR QUESTIONS REGARDING SPECIMEN PREPARATION OR SHIPPING, PLEASE CALL US AT 949.900.5500

TISSUE REQUIREMENTS

1. Formalin fixed paraffin embedded (FFPE) block (PREFERRED) OR
2. Nine unstained slides mounted with FFPE tissue sections cut at 10 micron, unbaked and one (1) unstained slide with FFPE tissue sections cut at 5 micron thickness, unbaked

NOTE: Biopsy specimens are NOT accepted

PATHOLOGY SPECIMEN CHECKLIST

- total tissue volume > 95 microns thick (in aggregate for slides)
- >25mm² surface area of tumor rich region on H&E
- >20% tumor cellularity
- >80% nucleated cells cellularity
- Viable tumor cell nuclei should constitute at least 20% of total number of all nucleated cells

ACCEPTABLE SPECIMENS

TumorNext-Lynch®: Lynch syndrome tumors accepted*

Block on which DNA mismatch repair protein IHC was completed is preferred if it meets tumor requirements

TumorNext-HRD®: only epithelial ovarian cancers (including Fallopian tube and primary peritoneal origin) are accepted

UNACCEPTABLE SPECIMENS

Biopsy specimens

<20% viable tumor cellularity

Tumor rich region <25mm²

Decalcified specimens

*Colorectal, endometrial, Fallopian tube, primary peritoneal, small bowel, stomach, pancreas, appendiceal, gallbladder, bladder, ureter, renal pelvis, prostate carcinomas, sebaceous cancer, colorectal polyps with high grade dysplasia

Ambry will stain an H&E slide, which will be examined by an Ambry pathologist and tumor cellularity percentage will be recorded. When needed, macrodissection will be performed to select tumor rich regions and try to minimize inclusion of necrotic areas, normal tissue, benign cells that may decrease the input tumor DNA content. Additionally, if tumor block is melted upon receipt it will automatically be re-embedded.