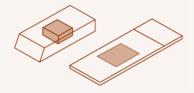
## Tissue requirements for solid tumor nextgeneration sequencing

The following specimen requirements ensure testing can proceed without delay and increases the likelihood of successfully generating sequencing results.

## Acceptable samples

Preliminary or final pathology reports should accompany all specimens.



## Formalin-fixed, paraffin-embedded (FFPE) tissue

- Tissue should be fixed in 10% neutral-buffered formalin. Other fixatives are not acceptable unless otherwise noted
- Decalcified specimens are not acceptable



Preferred:

4mm X 4mm slice size,

10 slices by 5 microns.





## Cytology smears

- Slides prepared from fine needle aspirations or touch preps
- Slides prepared from Thin Prep
- Body fluid specimen (effusions/washings)
- Punch biopsy prints
- Plastic coverslips not preferred and require extra processing time

Preferred: 5000 cells (total quantity).

Minimum: 3000 cells (total quantity).

Up to 3 slides can be used to meet cellular requirements.

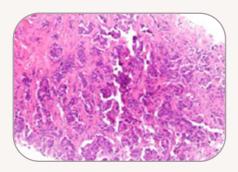


Percentage (%) tumor nuclei

number of tumor cells

total number of all cells with nuclei

20-30% optimal



Example of core biopsy with sufficient total cells and tumor cells



Example of cytology smear with sufficient total cells and tumor cells