

MayoComplete Sarcoma Mutation Panel, Next-Generation Sequencing, Tumor

Test ID: MCSTP

Explanation: Correction — Cytology Slide Requirements

The Specimen Required slide counts in the September 9, 2025 Test Change update were incorrect. The Specimen Required section has been updated to show the correct number of cytology slides. Please use the revised requirements immediately.

Current Specimen Required

This assay requires at least 20% tumor nuclei. However, 40% tumor is preferred.

- Preferred amount of tumor area: 720 mm(2) tissue on up to 20 unstained slides
- Minimum amount of tumor area: 192 mm(2) tissue on up to 20 unstained slides
- Tissue fixation: 10% neutral buffered formalin, not decalcified
- For this test, at least 6 mm x 6 mm areas on 20 unstained slides is preferred: this is approximately equivalent to 720 mm(2). The minimum acceptable area is 3.1 mm x 3.1 mm on 20 unstained slides: approximately equivalent to 192 mm(2).

Preferred: Submit 3, if available, or 2 of the following specimens.

Acceptable: Submit **at least one** of the following specimens.

Specimen Type: Tissue block

Collection Instructions: Submit a formalin-fixed, paraffin-embedded tissue block with acceptable amount of tumor tissue.

Specimen Type: Tissue slide

Slides: 1 Hematoxylin and eosin-stained and 20 unstained

Collection Instructions:

Submit the followings slides:

1 Slide stained with hematoxylin and eosin
AND

New Specimen Required

This assay requires at least 20% tumor nuclei. However, 40% tumor is preferred.

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- Minimum amount of tumor area: 192 mm(2) tissue on up to 20 unstained slides
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Collection Instructions: Submit a formalin-fixed, paraffin-embedded tissue block with acceptable amount of tumor tissue.

Specimen Type: Tissue slide

Slides: 1 Hematoxylin and eosin-stained and 20 unstained

Collection Instructions:

Submit the followings slides:

1 Slide stained with hematoxylin and eosin
AND

20 Unstained, nonbaked slides with 5-micron thick sections of the tumor tissue.

Note: The total amount of required tumor nuclei can be obtained by scraping up to 20 slides from the same block.

Additional Information: Unused unstained slides will not be returned.

Specimen Type: Cytology slide (direct smears or ThinPrep)

Slides: 1 to 3 Slides

Collection Instructions: Submit 1 to 3 slides stained and coverslipped with a total of 5000 nucleated cells (preferred) or at least 3000 nucleated cells (minimum).

Note: Glass coverslips are preferred; plastic coverslips are acceptable but will result in longer turnaround times.

Additional Information: Cytology slides will not be returned. An image of the slides will be stored per regulatory requirements.

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Note: The total amount of required tumor nuclei can be obtained by scraping up to 20 slides from the same block.

Additional Information: Unused unstained slides will not be returned.

Specimen Type: Cytology slide (direct smears or ThinPrep)

Slides: 2 to 6 Slides

Collection Instructions: Submit 1 to 3 slides stained and coverslipped with a total of 5000 nucleated cells (preferred) or at least 3000 nucleated cells (minimum).

Note: Glass coverslips are preferred; plastic coverslips are acceptable but will result in longer turnaround times.

Additional Information: Cytology slides will not be returned. An image of the slides will be stored per regulatory requirements.

Questions

Contact Michelle Rath, Laboratory Resource Coordinator at 800-533-1710.