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**Reporting Title:** ESR1 Mutations Analysis, Tumor**Performing Location:** Rochester**Ordering Guidance:**

Multiple oncology (cancer) gene panels are available. For more information see Hematology, Oncology, and Hereditary Test Selection Guide.

**Necessary Information:**

A pathology report (final or preliminary), at minimum containing the following information, must accompany specimen for testing to be performed:

1. Patient name
2. Block number-must be on all blocks, slides, and paperwork (can be handwritten on the paperwork)
3. Tissue collection date
4. Source of the tissue

**Specimen Requirements:**

This assay requires at least 20% tumor nuclei.

NOTE: Submit tissue from either local recurrence or metastatic disease collected after endocrine therapy has been administered (see Clinical Information for more details).

- Preferred amount of tumor area with sufficient percent tumor nuclei: tissue 216 mm(2)
- Minimum amount of tumor area: tissue 36 mm(2)
- These amounts are cumulative over up to 10 unstained slides and must have adequate percent tumor nuclei.
- Tissue fixation: 10% neutral buffered formalin, not decalcified
- For specimen preparation guidance, see Tissue Requirement for Solid Tumor Next-Generation Sequencing. In this document, the sizes are given as 4 mm x 4 mm x 10 slides as preferred: approximate/equivalent to 144 mm(2) and the minimum as 3 mm x 1 mm x 10 slides: approximate/equivalent to 36 mm(2).

Preferred:

Specimen Type: Tissue block

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

Acceptable:

Specimen Type: Tissue slides

Slides: 1 Stained and 10 unstained

Collection Instructions: Submit 1 slide stained with hematoxylin and eosin and 10 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 10 slides from the same block.

Additional Information: Unused unstained slides will not be returned.

Specimen Type: Cytology slides (direct smears or ThinPrep)

Slides: 1 to 3 Slides

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

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

Additional Information: Cytology slides will not be returned.

**Specimen Minimum Volume:**

See Specimen Required

**Forms:**

If not ordering electronically, complete, print, and send an Oncology Test Request (T729) with the specimen.

| Specimen Type | Temperature         | Time | Special Container |
|---------------|---------------------|------|-------------------|
| Varies        | Ambient (preferred) |      |                   |
|               | Refrigerated        |      |                   |

**Result Codes:**

| Result ID | Reporting Name         | Type         | Unit | LOINC®  |
|-----------|------------------------|--------------|------|---------|
| 617929    | Result                 | Alphanumeric |      | 82939-0 |
| 617930    | Interpretation         | Alphanumeric |      | 69047-9 |
| 617931    | Additional Information | Alphanumeric |      | 48767-8 |
| 617932    | Specimen               | Alphanumeric |      | 31208-2 |
| 617933    | Tissue ID              | Alphanumeric |      | 80398-1 |
| 617934    | Method                 | Alphanumeric |      | 85069-3 |
| 617935    | Disclaimer             | Alphanumeric |      | 62364-5 |
| 617936    | Released By            | Alphanumeric |      | 18771-6 |

LOINC and CPT codes are provided by the performing laboratory.

**Supplemental Report:**

No

**CPT Code Information:**88381 - Microdissection, manual  
81479

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**Reflex Tests:**

| Test ID | Reporting Name     | CPT Units | CPT Code | Always Performed | Orderable Separately |
|---------|--------------------|-----------|----------|------------------|----------------------|
| SLIRV   | Slide Review in MG |           |          | Yes              | No<br>(Bill Only)    |

**Reference Values:**

An interpretive report will be provided.