

SUBMITTED SPECIMENS MUST CONTAIN THE COMPLETED REQUISITION FORM, AND ONE OF THE FOLLOWING:

1. 2 H&E slides flanking either six (6) 10 µm unstained slides OR twelve (12) 5 µm unstained slides (Total tissue needed is 60 µm).
2. 2 H&E slides flanking paraffin embedded tissue shavings in 2 microcentrifuge tubes.
3. Paraffin Block.

Failure to submit these items will prevent the specimen from being processed.

All slides and microcentrifuge tubes submitted to Rosetta Genomics must be labeled with the submitting laboratory's internal accession number and/or patient name in addition to the barcode labels.

STOP!

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I. miRview® SPECIMEN COLLECTION & TRANSPORTATION KIT CONTENTS

- | | |
|---|------------------------------|
| a. 3 plastic slide carriers | e. 1 small ziplock bag |
| b. 2 microcentrifuge tubes (Use only the microcentrifuge tubes provided in bag) | f. This instruction sheet |
| c. 20 barcode labels | g. Return shipping materials |
| d. 1 requisition form | |

II. SAMPLE PREPARATION - ACCEPTED IN 3 FORMS:

A pathologist at Rosetta Genomics will review the submitted H&E slides, and perform manual microdissection if necessary.

Paraffin Block – Preferred

1. Complete and sign requisition form and place barcode labeled "Requisition Form" onto the requisition form in the top right corner.
2. Place barcode labeled "Paraffin Block" on the bottom of the paraffin block to be submitted.
3. Place paraffin block in small ziplock bag supplied in kit.
4. Place in appropriate slot in miRview® kit.

Sections on Slides

(tumor cellular content must be at least 30%)

1. Complete and sign requisition form and place barcode labeled "Requisition Form" onto the requisition form in the top right corner.
2. a. Prepare a 4-5 µm H&E slide.
b. Place barcode labeled "Slides" onto this slide.
c. Label with the number "1".
d. Place in slide carrier labeled "H&E Slides".
3. a. Prepare either six (6) 10 µm unstained slides or twelve (12) 5 µm unstained slides (Total tissue needed is 60 µm).
b. On each slide place a barcode labeled "Slides".
c. Sequentially label the unstained slides starting with the number "2", to indicate the order in which they were cut.
d. Place unstained slides in slide carriers labeled "slides".
4. Keep slides at room temperature.
5. a. Prepare second 4-5 µm H&E slide.
b. Place barcode labeled "Slides" onto this slide.
c. Label with the next number following the sequential numbers from 3.c. ("8" or "14", respectively).
d. Place in slide carrier labeled "H&E Slides".
6. Place the carriers back in the appropriate slot in the miRview® kit.

Sections in Tubes

(only if tumor cell content is greater than 60%)

1. Complete and sign requisition form and place barcode labeled "Requisition Form" onto the requisition form in the top right corner.
2. a. Prepare a 4-5 µm H&E slide.
b. Place barcode labeled "Slides" onto this slide.
c. Label with the number "1".
d. Place in slide carrier labeled "H&E Slides".
3. Set the microtome to cut 10 µm thick sections.
4. a. Cut 3 successive sections (5 for miRview mets), collect them into the first microcentrifuge tube and close the tube.
b. Label with the number "2".
c. Place barcode labeled "Eppendorf Tubes" onto the cap of the tube.
5. a. Collect the next 3 successive sections (5 for miRview mets) into the second tube, and close the tube.
b. Label with the number "3".
c. Place barcode labeled "Eppendorf Tubes" onto the cap of the tube.
6. Place the two tubes to the ziplock bag supplied.
7. Place the ziplock bag in the appropriate slot in the miRview® kit.
8. a. Prepare second 4-5 µm H&E slide.
b. Place barcode labeled "Slides" onto this slide.
c. Label with the number "4".
d. Place in slide carrier labeled "H&E Slides".
9. Place the slide carrier in the appropriate slots in the miRview® kit.

Cell Blocks from cytological procedures are also acceptable (for miRview® squamous and miRview® lung only); We require that at least 50% of the non-erythrocyte cells will be tumor cells for all three formats (unstained sections, tubes, paraffin block)

III. COMPLETION OF REQUISITION FORM

- a. For every submitted sample a separate miRview® kit must be used.
 - b. Complete all fields of the requisition form (except those which are not applicable).
 - c. Place Barcode Label "Requisition Form" onto the Requisition Form in the top right corner.
 - d. Before shipping, make a copy of the requisition form for your records.
- Note: A barcode must be attached to either the 2 tubes, all slides, or paraffin block respectively. Samples that are not properly labeled will not be accepted for testing. The barcodes labeled "Office Use" must remain in miRview® kit.

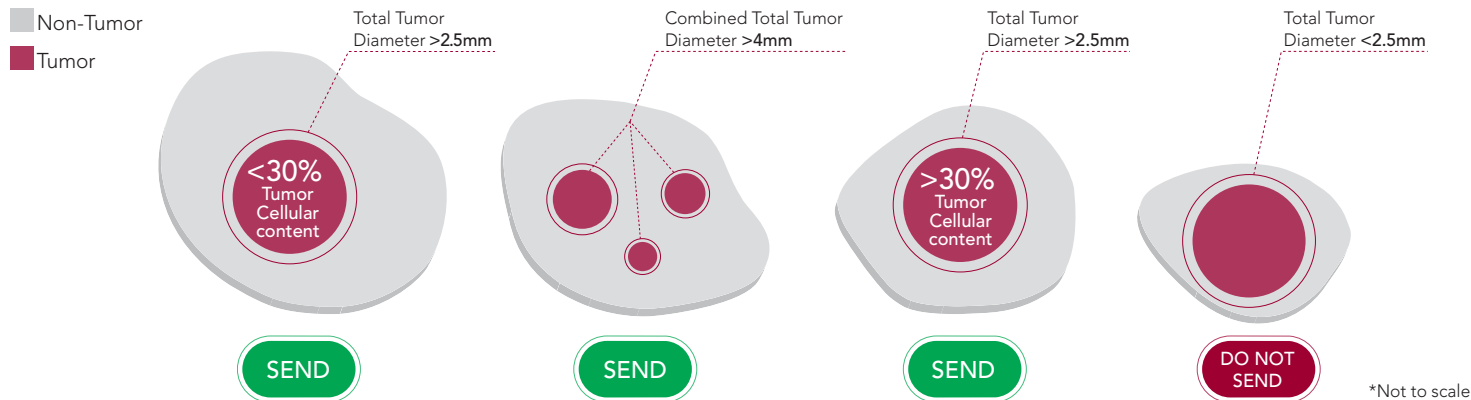
IV. SHIPPING INSTRUCTIONS

- a. Place the labeled specimen and requisition form into the miRview® collection kit. Place collection kit into the FedEx Clinical Pak.
- b. Sign the Required Signature Section on the International FedEx airbill.
- c. Drop package at the nearest Fed Ex drop box or call your local FedEx office to schedule a pick-up. To locate the closest office or drop location please visit <http://www.fedex.com/?location=home>

miRview® SAMPLE PREPARATION GUIDELINE

I. SELECTING APPROPRIATE FORMALIN-FIXED PARAFFIN-EMBEDDED (FFPE) BLOCKS FOR CUTTING OR SENDING

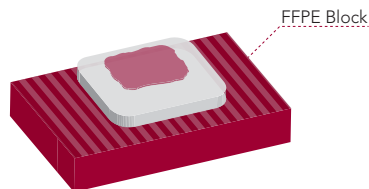
The below illustrations represent FFPE tumor blocks*, and are relevant only when sending unstained slides or an entire block. When sending tubes, tumor content should be greater than 60%, with minimal necrosis, fibrosis, and inflammation. When several blocks meet the below requirements, the block with the highest tumor cellular content should be sent.



For miRview® squamous and miRview® lung only: Cell Blocks from bronchial brushing, bronchial washing and fine needle aspiration are required to have 50% tumor cell content within the non-erythrocyte cells. Note: The procedure for cell blocks was validated using Saccomanno's, Ethanol or Formalin as the collection fluid.

II. ACCEPTABLE SAMPLE FORMATS

A. Entire FFPE block -Please refer to section 1 above to select the most appropriate block
Preferred Method



B. Unstained Slides

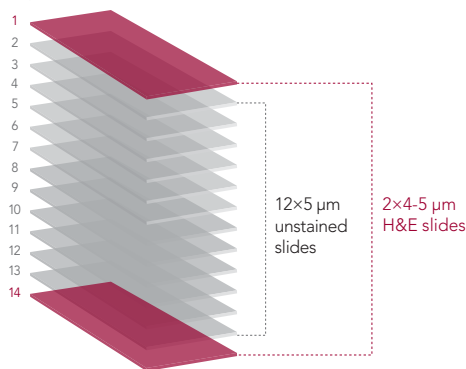
Option 1: 2 H&E slides

flanking twelve (12) 5 µm unstained slides, serially numbered

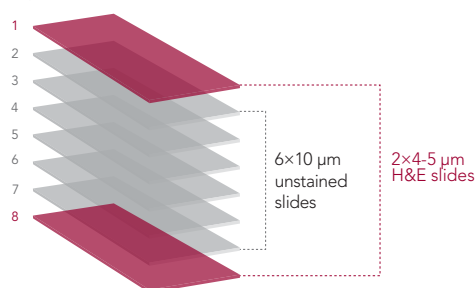
Option 2: 2 H&E slides

flanking six (6) 10 µm unstained slides, serially numbered

Option 1



Option 2



Legend: ■ Unstained Slides, ■ H&E Slides

C. Tubes - 2 H&E slides flanking paraffin-embedded tissue shavings in 2 microcentrifuge tubes

