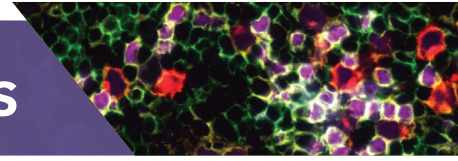




# MultiOmyx™ Sample Requirements



Sample requirements for NeoGenomics Pharma Services MultiOmyx studies are detailed below. Any exceptions to these requirements should be discussed and agreed prior to shipping samples for analysis.

## Documentation

- A tissue manifest must be provided. At a minimum, the tissue manifest needs to provide the link between sample label and type of tissue; e.g., melanoma, NSCLC, H&N, etc. and also include the study protocol/ name.
- Each sample must be labeled legibly, appear on the Tissue Manifest, and correspond morphologically with the tissue type and description listed for that sample on the Tissue Manifest.
- If TMAs are to be tested, the TMA map(s) must be provided.

## Sample Types and Specifications

- Samples must be Formalin Fixed Paraffin Embedded (FFPE) blocks or slides, either whole tissue or TMA.
- There should not be any obvious damage from heat; e.g., melted paraffin and/or exposed tissue devoid of paraffin.
- If slides are provided, the FFPE tissue must be firmly adhering to the slide. Slides cannot be broken or cracked.
- At least 1000 cells must be present and in serviceable condition; e.g., not crushed.
- There can be no obvious visible contaminants.

### Blocks

- Submit blocks with the largest tumor content. Samples prepared from entirely necrotic tumor, fine-needle aspirates, or cytology preparations cannot be accepted.
- Blocks must be fixed with 10% Neutral Buffered Formalin. Blocks prepared with another fixative cannot be accepted for analysis. Blocks are to be fixed preferably for 18-24 hours. If other times are used, please indicate on the requisition and/or manifest.
- Mark tumor block cassette with Subject ID number.
- Place marked sample in zip lock bag and mark bag with the Subject ID number as well as the site number if applicable. Include a sample manifest and TMA map if applicable.

## Slides

### Whole Tissue

- Samples must be cut to 4 $\mu$ m nominal thickness and mounted on Fisher brand SuperFrost™ Plus positively-charged microscope slides (catalog number 12-550-15).
- It is recommended that slides are prepared fresh before submission, but within 1 week is acceptable.
- Slide specimens must be cut to section thickness 3 - 5 $\mu$ m using a clean water-bath. It is recommended a minimum of two (2) slides per sample be provided, but a single (1) slide is acceptable.
  - Do not add any adhesives to the water-bath.
  - Do not use tape-sectioning.
  - Position section in the center of the slide.
  - Drain excess water from slide by standing slide vertically on a paper towel until water runs down to the bottom.
  - Gently tap slide on paper towel to remove any excess water; do NOT wipe the slide with the paper towel.
  - Drying time and temperature on hotplate after cutting: 45 degrees C for 30 min.
  - Slides must be fully dried prior to shipping.
  - Air dry slides for 1 hour (minimum).
- Important: Each slide must be labeled with the appropriate block ID and/or the appropriate subject number which must match the requisition, and if included, the pathology report.
- Place slides in a slide holder and mark with Subject ID number as well as the site number.
- Tissue must be mounted on the frosted side of the slide.
- There can be no obvious tissue folding; do not ship slides with obvious tissue folds.
- Tissue cannot extend into the long slide dimension margin of 0.25 inch (6.4mm) or into the short side dimension margin of 0.125 inch (3.2mm); see Figures 1 & 2 below for explanation.

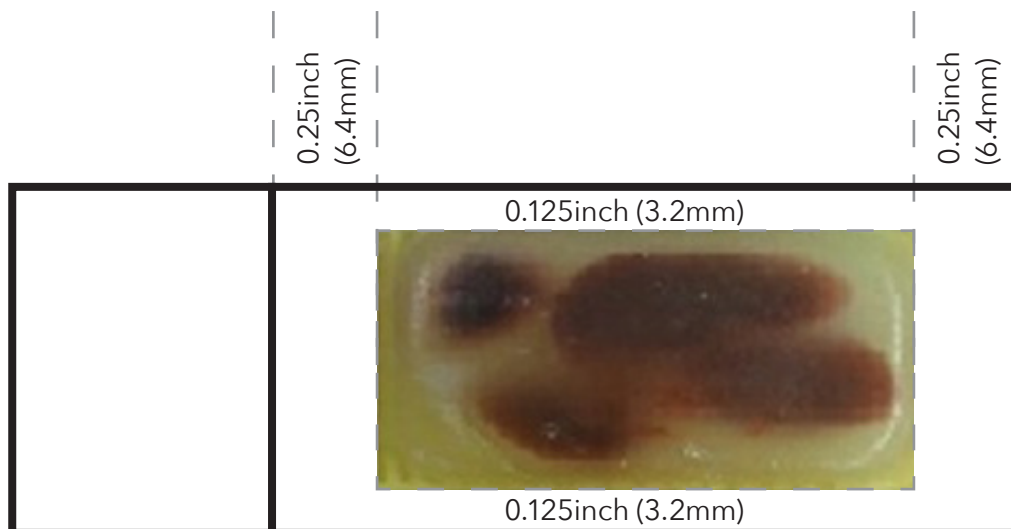


Figure 1: Acceptable Whole Tissue Slide Parameters

### TMA

- TMA map(s) must be provided.
- TMA pattern must match the TMA map provided.
- Minimum core size of 0.6mm diameter.

- Individual cores in the TMA must not touch adjacent cores.
- Fiduciary features are not required, but are recommended. Open TMA spots are permissible.
- TMA cores cannot extend into the long slide dimension margin of 0.25 inch (6.4mm) or into the short side dimension margin of 0.125 inch (3.2mm); see Figure 2 below for explanation.

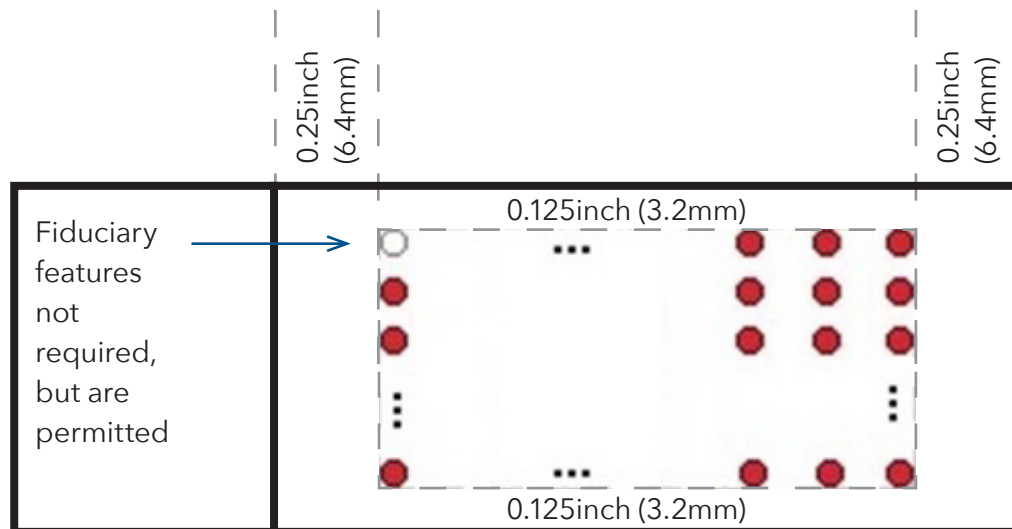


Figure 2: Acceptable TMA Slide Parameters

## Shipping Instructions

- Samples of multiple subjects may be sent in one shipment but must be separated into individual specimen bags, accompanied by the corresponding requisition forms.
- Please verify local and national holidays prior to shipment.
- Label block/slides with the following:
  - Study/Protocol Number
  - Subject Screening Number (if applicable)
  - Specimen/Tissue Block ID
  - Collection Date (if applicable)
- BLOCK: Insert labeled tissue block into small zip lock bag.
- SLIDES: Place labeled slides directly into the slide holders.
- Include a sample manifest and TMA map if applicable.
- Ship priority or standard overnight to:

*NeoGenomics Laboratories*  
*Attn: Pharma Services (MultiOmyx)*  
*31 Columbia*  
*Aliso Viejo, CA 92656*
- Notify NeoGenomics of the shipment
  - [AlisoViejo.Biopharmprocessing@neogenomics.com](mailto:AlisoViejo.Biopharmprocessing@neogenomics.com) and appropriate project manager with air bill number/tracking number, study ID and sample ID.
  - Nicole LaPlante [nicole.laplante@neogenomics.com](mailto:nicole.laplante@neogenomics.com)
  - Alex Bordwell [alex.bordwell@neogenomics.com](mailto:alex.bordwell@neogenomics.com)
- Please avoid transporting samples over the weekend

## Revision History

Revision	Author	Release Date	Changes From Previous Revision
1	R Hartsfield	04-Feb-2016	Initial Release
2	N LaPlante	26-Aug-2016	Updated
3	R Hartsfield	31-Oct-2016	Updated based on input from A Bordwell, N Hoe, L Howells, and N LaPlante. Paragraph numbering removed, some sections consolidated to make document more readable.



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