

GENERAL INSTRUCTIONS

MyOmicsDx Sample Collection Procedure

Tissue samples may be provided as frozen tissue, FFPE blocks or slides, pleural effusion, xenografts, cells, or DNA. For tumor samples, if pleural effusion, DNA, or cells are submitted, the percentage (%) tumor must also be provided. If a xenograft sample is submitted, a normal sample of the mouse strain must also be included.

A unique ID should be assigned to each sample delivered. General information relating to the specimens will be collected for administrative purposes. For each sample submitted, please complete a test requisition form and an Excel sheet with specimen details (provided). E-mail Excel spreadsheet to order@MyOmicsDx.com.

DNA

DNA should be quantified using a dsDNA-specific method such as the Qubit or PicoGreen method.

- Total DNA amount that needed for a particular service is decided through communications with our scientists, minimum 0.05ng
- All DNAs must have a minimum concentration of 1ng/ μ L (higher concentrations are acceptable)
- All DNAs must have a total volume of at least 1 μ L
- The DNA solution buffer must be 10 mM Tris/1 mM EDTA
- DNA must be pure, intact, and of high molecular weight (DNA from FFPE-derived tissue is acceptable)
- DNA must be free from contaminating nucleic acids from other individuals or species
- OD 260/280 must be between 1.8 - 2.0
- Samples must not be PCR-amplified
- A brief description of the DNA extraction protocol(s) that were used should be submitted along with your DNAs

Cells or Pleural Effusion

At least 10 thousand cells in PBS. Alternatively cells may be fixed and paraffin embedded.

BODY FLUID SAMPLE COLLECTION

Saliva Collection

Using the Oragene-DNA kit, 2 milliliters of saliva is sufficient for our analysis. Samples can be stored for 1 year at room temperature. Saliva collection tubes should be labeled with a unique identifier and date and time of acquisition. Tube should be wrapped in an absorbent paper towel and packed in a foam container delivered overnight at room temperature.

Whole Blood Collection

A venous blood draw of between 2 and 4 milliliters of blood is sufficient for our analysis. Blood should be drawn into a K2EDTA lavender top tube and gently rocked back and forth to mix the blood and the preservatives. Do not spin blood tube and do not freeze the blood tube unless they will be stored for >1 month. For long term storage samples may be stored at 4° C for less than 1 month. Samples that are to be stored for more than 1 month should be frozen at -20° C first and then transferred to a -80° C freezer. Do not place the tubes in styrofoam holders for freezing. Tube should be wrapped in an absorbent paper towel and placed within a biohazard bag. Tube should be packed in a foam container delivered overnight at room temperature.

TISSUE SAMPLE COLLECTION

Frozen Tissue

At least 10 milligrams of tissue in a sealed tube sent overnight on dry ice. If sending from international locations, a courier service should be used to ensure that samples remain frozen throughout transport.

Formalin-Fixed Paraffin Embedded Tissue

SLIDES:

- One H&E stained, cover-slipped slide
- At least 2-4 unstained slides:
 - Fresh cut and air dried
 - Unstained
 - Not cover-slipped
 - 5-10 micron thickness is optimal
 - On "+" charged slides
 - All slides must be labeled with at least one unique identifier
 - Place the slides in a plastic slide shipping container, in a mailer with bubble wrap/insulation
 - Analysis of less than 2-4 slides may be possible - please contact us to discuss

BLOCKS:

- Place block(s) in a plastic bag
- Place block(s) and one cold pack in a styrofoam container
- Place the styrofoam container in a box
- Securely close the box