

Sample Handling Guidelines for OTS-Scan

【A】 FFPE Biopsy Samples

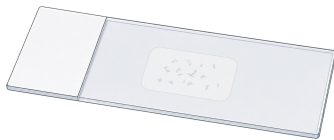
■ Recommended

- ▷ FFPE block storage period: Less than 1 years (at contact us)

■ Requirements

- ▷ When unstained slides are available:

1. Unstained slides ($8\mu\text{m}$): 20 slides
 - A) Each slide: $\geq 5\text{-}6$ biopsy tissues ($\sim 2\text{-}3\text{ mm}^2$ each)



× 20 slides

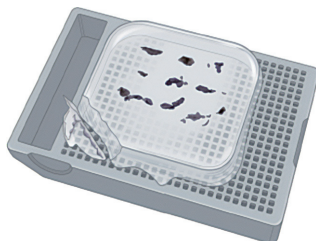
- B) If tumor volume is limited:

Increase numbers of slides until total tissue volume reaches 1 mm^3

2. H&E stained slides: 2 slides (from the final section of the same block, with specimen numbers)
3. A copy of pathology report

- ▷ When unstained slides are NOT available:

1. FFPE blocks: 1-2 blocks (representative blocks)



2. H&E stained slide: 1 slide (from the final section of the same block, with specimen numbers)
3. A copy of pathology report

【B】 FFPE Surgical Samples

■ Recommended

- ▷ FFPE block storage period: Less than 5 years (at contact us)

■ Requirements

- ▷ When unstained slides are available:

1. Unstained slides ($8\mu\text{m}$): 8 slides
 - A) Tumor area per slide: $\geq 25\text{ mm}^2$ (after trimming)



× 8 slides

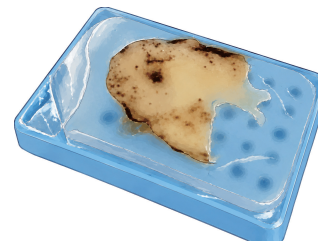
- B) If tumor area $< 25\text{ mm}^2$:

Increase numbers of slides until total tissue volume reaches 1 mm^3

2. H&E stained slides: 2 slides (from the final section of the same block, with specimen numbers)
3. A copy of pathology report

- ▷ When unstained slides are NOT available:

1. FFPE blocks: 1-2 blocks (representative blocks)



2. H&E stained slide: 1 slide (from the final section of the same block, with specimen numbers)
3. A copy of pathology report

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General Notes for [A] [B]

■ Basic Requirements

- ▷ H&E slides will not be returned
- ▷ Label slides with:
 - Sample ID
 - Serial number of FFPE block
 - * Do NOT include personal identifiers
- ▷ FFPE blocks will be returned within 1–2 months
- ▷ Preparation and shipping costs are the responsibility of the customer
- ▷ Shipping temperature: Room temperature

■ Slide Preparation Conditions

- ▷ Fixation: 10% neutral buffered formalin
- ▷ Bone samples: EDTA decalcification only
- ▷ Tumor content: $\geq 30\%$ (trimming allowed)
- ▷ Slide mounting: up to 2 sections per slide allowed
 - * Multiple sections must be indicated in the submission form
- ▷ Avoid heat stretching: store at room temperature

■ Contamination Prevention

- ▷ Use a new microtome blade
- ▷ Use new gloves
- ▷ Replace water bath water

[C] Extracted DNA

■ Requirements

- ▷ Total DNA amount: ≥ 300 ng (recommended)
- ▷ Container: 1.5 mL microcentrifuge tube (indicate total DNA amount)
- ▷ Storage: $\leq -20^{\circ}\text{C}$
- ▷ Storage period after extraction: Within 1 year

■ Labeling

- ▷ Label with Research ID or Research-specific Patient ID
 - * Do NOT include personal identifiers

■ Labeling

- ▷ Label with Research ID or Research-specific Patient ID
 - * Do NOT include personal identifiers

■ Shipping

Refrigerated (4°C) or frozen



Total DNA amount:
 ≥ 300 ng (recommended)