

Quick Reference Cards | CG001675 | Rev A

Atera Sample Placement

Alignment Tool Use and Manual Instruction

For use with:

Atera Instrument Bundle, *PN-1001128*

Atera Instrument Accessory Kit, *PN-1001179*

Atera Tissue Alignment Tool, *PN-1001176*



If printing this document:

Select "100%" to print to scale. Measure slide diagrams to verify.

Atera

Document Revision Summary



Document Number

CG001675 | Rev A

Title

Atera Sample Placement - Alignment Tool Use and Manual Instruction, Quick Reference Card

Revision

Rev A

Revision Date

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Description of Changes

Initial release of document

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Sample Area

The Atera Instrument accommodates a large Sample Area for tissue placement. Samples must be placed within the Sample Area. Any tissue outside the Sample Area will not be analyzed and may be damaged during an instrument run.

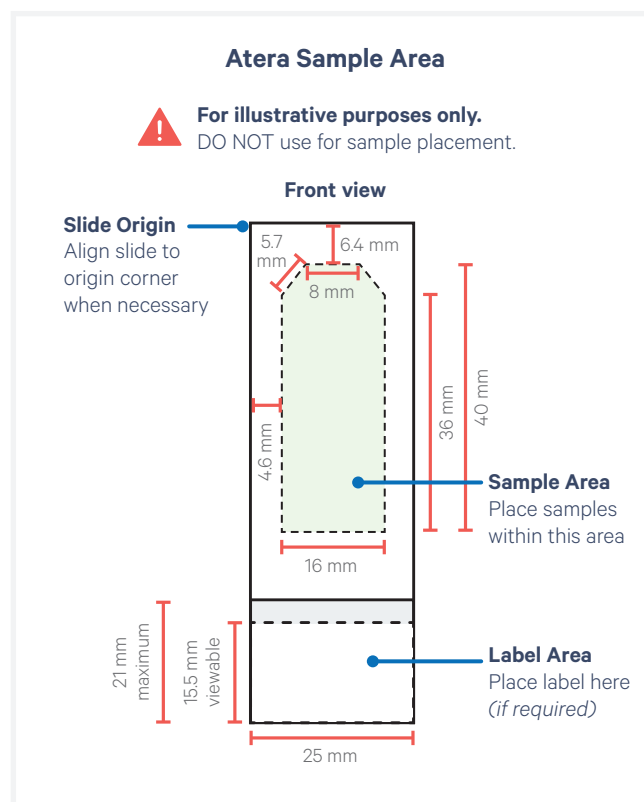
The Sample Area and dimensions are shown in the figure on the right. For slides with labels, the maximum label area height is 21 mm (15.5 mm visible)

To ensure tissue is placed within the Sample Area, 10x Genomics recommends using the Tissue Alignment Tool (PN-1001176) that is shipped with the Atera Instrument.

The following document provides instructions how to mark the Sample Area using the

- Tissue Alignment Tool (recommended), or
- Manual template

Ensure familiarity with using either method prior to tissue placement.

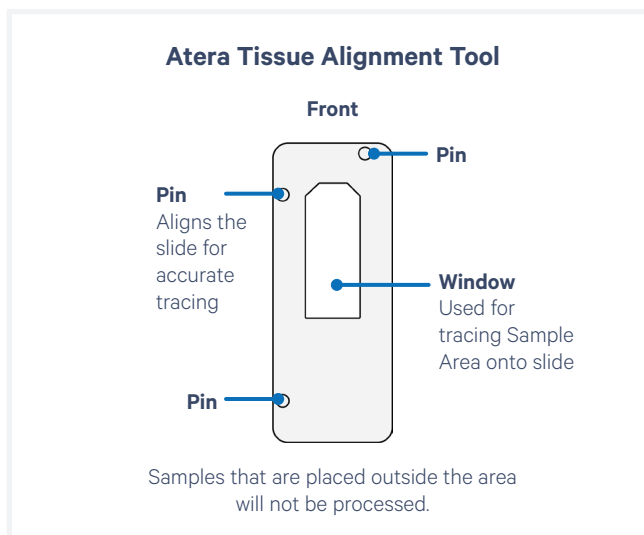


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Alignment Tool Use

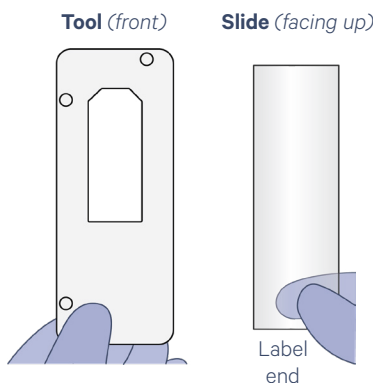
The Atera Tissue Alignment Tool (PN-1001176) is used to draw the Sample Area on the back of the slide to assist with tissue placement.

- Samples should lie within the area drawn onto the back of the slide.
- See the slide manufacturer's recommendations for slide specific tips and guidelines for use.
- Use the recommended ultrafine-tip pens depending on slide type.
- Do not reset sections.
- Maintain a minimum 1 mm gap between tissue sections to maximize likelihood each can be selected as its own region during instrument run.

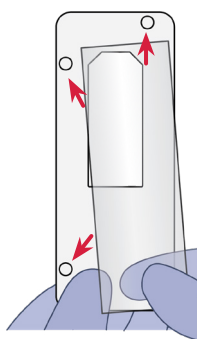


Using the Alignment Tool

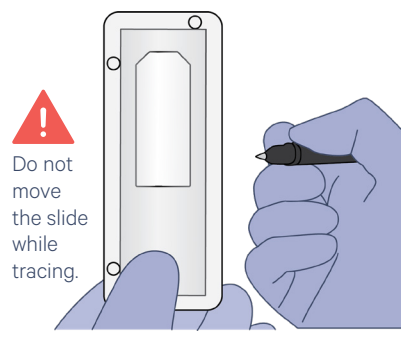
- 1 In one hand, hold alignment tool with the front facing the user. In the other hand, hold the slide by the label end with front facing up.



- 2 Position the slide on top of the tool and align the slide with the three pins. Place thumb firmly on slide so it remains in place.

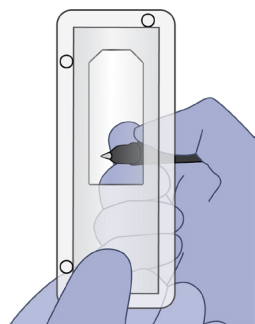


- 3 Obtain a Statmark Pen* if using a Schott Nexterion Slide H (Fisher Scientific) or Tissue Adhesion Slide (10x Genomics). Otherwise, use a permanent ultrafine-tip Sharpie pen (dark color).

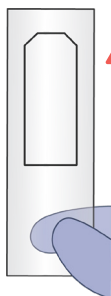


*Thomas Scientific 21A00J449

- 4 Trace through the window from the **BACK** of the tool onto the **BACK** of the slide.



- 5 Proceed to section placement. Place sections only within the marked area.



Let ink dry completely before proceeding.

Introducing liquid prematurely may cause ink to be removed and/or require cleaning the waterbath.

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Manual Template Use

Samples must be placed in the Sample Area to ensure compatibility with the Atera Instrument. Samples that are placed outside the area cannot be analyzed.

Use the template below to aid in correct sample placement.

Key Considerations

- Samples should lie within the green Sample Area shown in template.
- See the slide manufacturer's recommendations for slide specific tips and guidelines for use.
- Use the recommended ultrafine-tip pens depending on slide type.
- Do not reset sections.
- Maintain a minimum 1 mm gap between tissue sections to maximize likelihood each can be selected as its own region during instrument run.

Using the Template

- Print this document. Select "100%" to print to scale. Measure slide diagrams to verify.



Failure to print correctly may result in incorrect sample placement.

- Hold the slide **face down** with the label end at the bottom.
- Align the **top right corner** of the slide to the top right corner of the template (outer edge of the black line).

Depending on slide, alignment to other edges of the black line may not be exact.

- Trace the green box on the back of the slide
 - For Schott Nexterion Slide H and 10x Genomics Tissue Adhesion Slides, use the Statmark Pen Black (Thomas Scientific 21A00J449).
 - For other slides, use an ultrafine-tip Sharpie pen.
- Let ink dry on the slide completely before proceeding.



Introducing liquid to slide prematurely may cause ink to be removed and/or require cleaning the waterbath.

