

## Covaris Fragmentation

### Sample Preparation Instructions

#### Sample

- Aliquot each sample into a separate 1.5mL Tube
- Refer to the DNA Shearing guide for the appropriate assay tube to determine concentration and volume

Tube labels must include:

- Sample Name
- Your Name
- Date (MM-DD-YY)

### Fragmentation Parameters

DNA fragmentation with the S220 produces consistent, reproducible results. To achieve the desired average size distribution, refer to the table below to choose the appropriate Adaptive Focused Acoustics (AFA) tubes. Selecting the appropriate fragmentation parameters is sample dependent. Please see the [Covaris DNA Shearing Guide](#) for more information.

Covaris AFA Tubes	Range of Fragment Size Distribution	Recommended Sample Volume
microTUBE	150bp – 1,500bp	130ul
microTUBE	150bp – 1,500bp	50ul

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miniTUBE	2- 5kb	200ul
g-TUBE	6 – 20kb	50ul

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