# Sonication of DNA

*Protocol Specified for: Heat Systems Ultrasonics Sonicator*

## Sonicate:

1. Adjust volume of DNA sample to 700uL.
2. Adjust settings on the Heat Systems Ultrasonics Sonicator:

Output: 0  
Duty cycle: 30%  
Cycle: continuous

1. Turn sonicator on.
2. While keeping the tube on ice, insert the probe to just above bottom of 1.5mL tube.
3. Turn the output to level 3 for 10 seconds and then return it to 0.
4. If switching to a new sample, rinse the probe with ethanol and wipe dry with a kimwipe.
5. Incubate each sample on ice for at least 1 minute between sonciation cycles.

## Quality Check:

1. Run samples on a 1.5% agarose gel to verify fractionation to 100-500bp.
2. Quantify samples on nanodrop.