

## Genomic DNA shearing for NGS library prep – Plant DNA

### Protocol

**Cell Type:** Plant DNA (Arabidopsis, Dalbergia, Pin, Dianthus)\*

**Lysis Buffer and Concentration:** water

**Sample volume:** 50ul

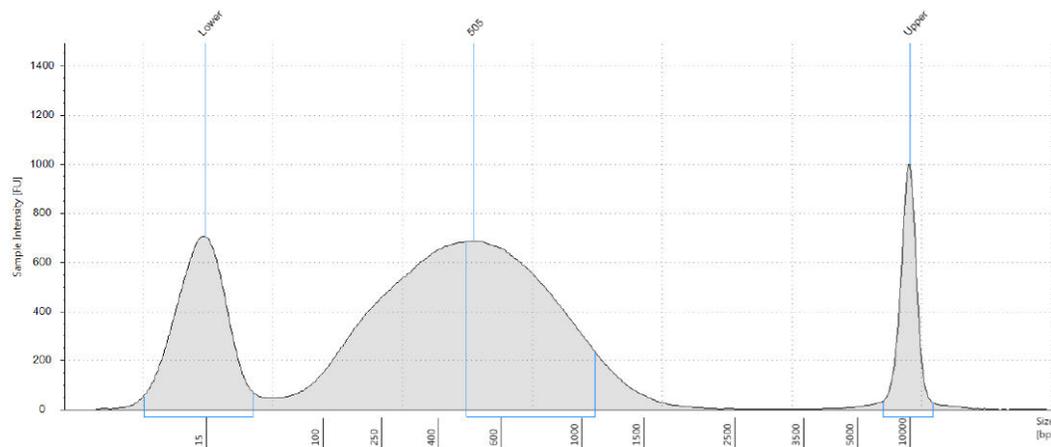
**Sample Concentration Details:** 200-500ng in 50ul

**Sonicator Amplitude Setting:** 20%

**Total Sonication ON Time:** 10-20 minutes depending on sample type and concentration

**Pulse Mode:** No pulse, temperature remained low without pulsing

**BI: Arabid 15min Q800**



### Customer Notes

- Used 0.2ml PCR tubes from Brandtech #781305.
- There are slight shifts in the profile of sonicated DNA but is always in the suitable (100-1000bp) range for library preparation.
- I also found differences between sample species, so not every plant DNA behaves the same. Initially you must optimize and test different sonication times for different species.
- Choice of tubes is important as well as degassing water before starting.
- \*Extracted with commercial kits (Qiagen) and eluted in water