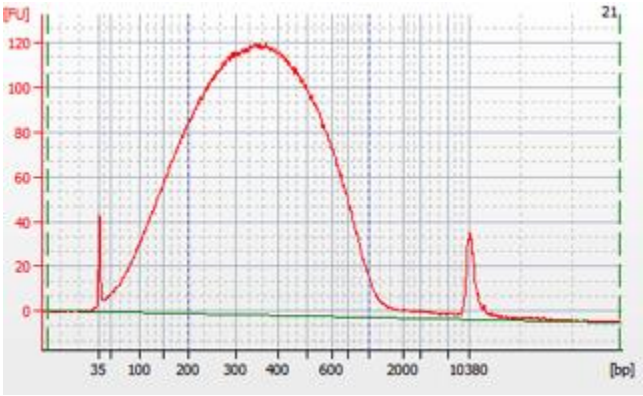
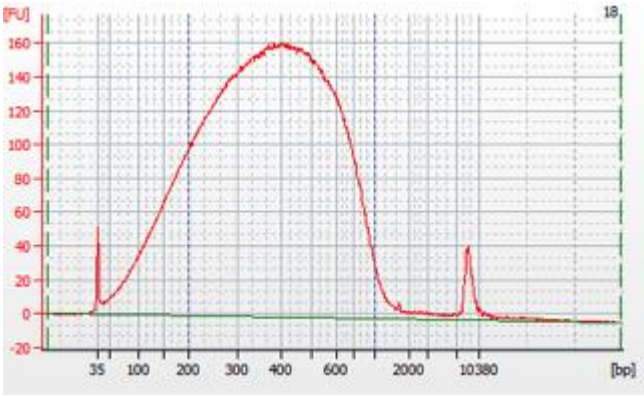
Avian Blood and Tissue Genomic DNA Shearing

Example protocols and results are based on customer feedback.

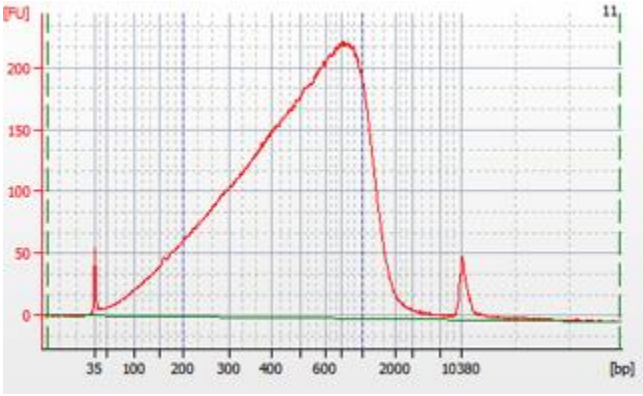
350bp



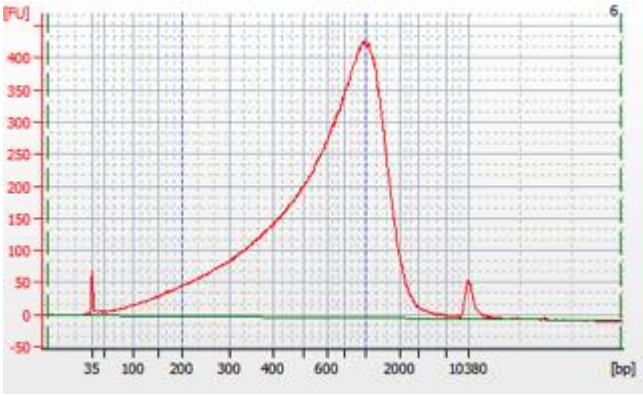
450bp



750bp



1000bp



Protocol Information

Cell Type: Avian Blood and Tissue samples
Total Sample Volume: 100ul
Sonicator Amplitude Setting: 25%
Sonication Pulse Rate: 15 seconds On, 15 seconds Off
Total Sonication On Time: Desired fragment size dependent. See Reference guide below
Sample Process Temperature: 3°C

Fragment Size Reference Guide:

Fragment size (bp)	1000	750	450	350
Amplitude (25)	25	25	25	25
Pulse (on:off)	(15:15)	(15:15)	(15:15)	(15:15)
Duration (Seconds)	60	105	150	180

Customer Notes:

1) Turn on chiller and set to 3 °C
2) Adjust water level in cup horn to match the sample level in the tube.
3) Aliquot 100 µl high molecular weight DNA (TE buffer or sterile water) into individual 0.2 ml PCR tubes
4) Chill the DNA aliquots to 4 °C
5) When chilled, spin down PCR tubes for 30 seconds at 1000 RPM
6) Carefully place tubes into sample cradle, making sure not to splash sample onto the tube walls
7) Carefully attach loaded sample cradle to the rotator, place into instrument and close the lid
8) Sonicate for desired duration, amplitude and pulse
9) Sheared DNA may now be used as starting material for library preparation

Concentration Independent shearing to 750bp