

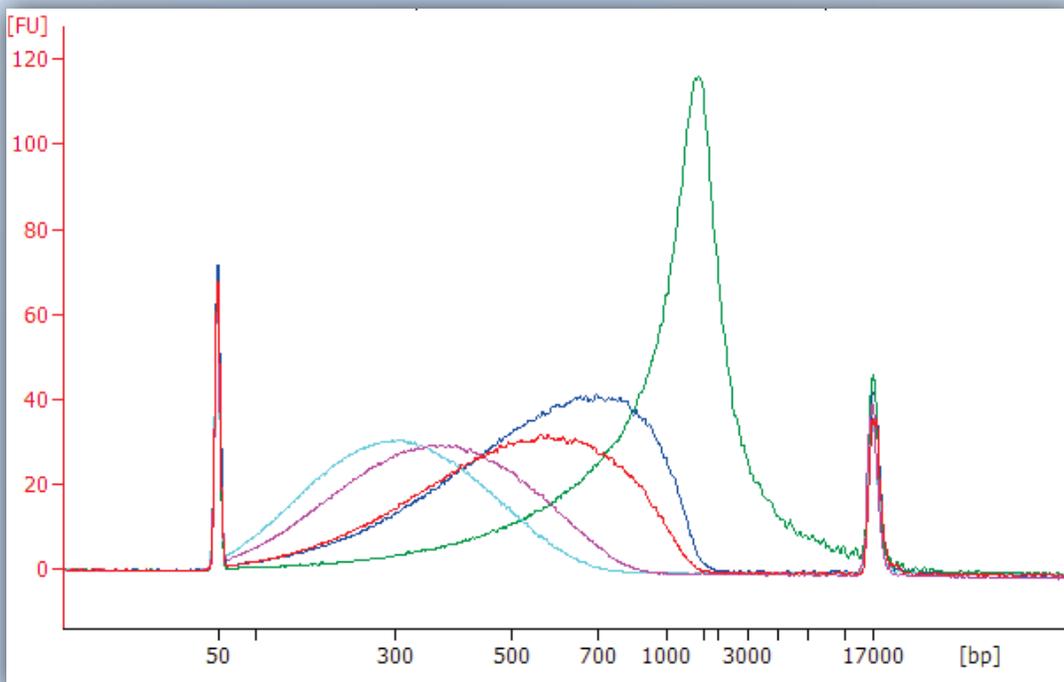


Today: Shear DNA with unmatched accuracy. Tomorrow: End-to-end sample prep One instrument – Multiple applications

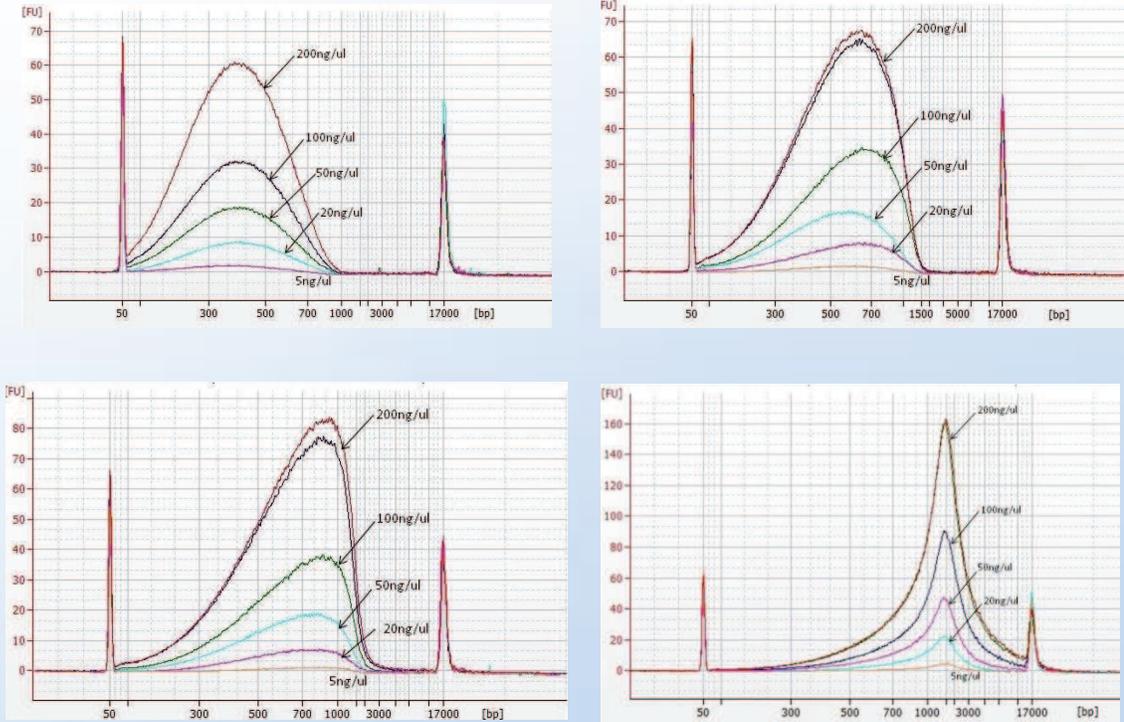
Microsonics ST30 Personal DNA Sample Prep System with its on-board centrifuge represents a whole new approach to preparing DNA samples. Microsonics' proprietary Bulk Lateral Ultrasonic (BLU)™ technology is a highly controllable form of ultrasound equally capable of gentle mixing as shearing DNA – all in standard low-cost Matrix 2D- barcoded storage tubes.

ST30's first application offers unmatched accuracy and unmatched efficiency in DNA shearing:

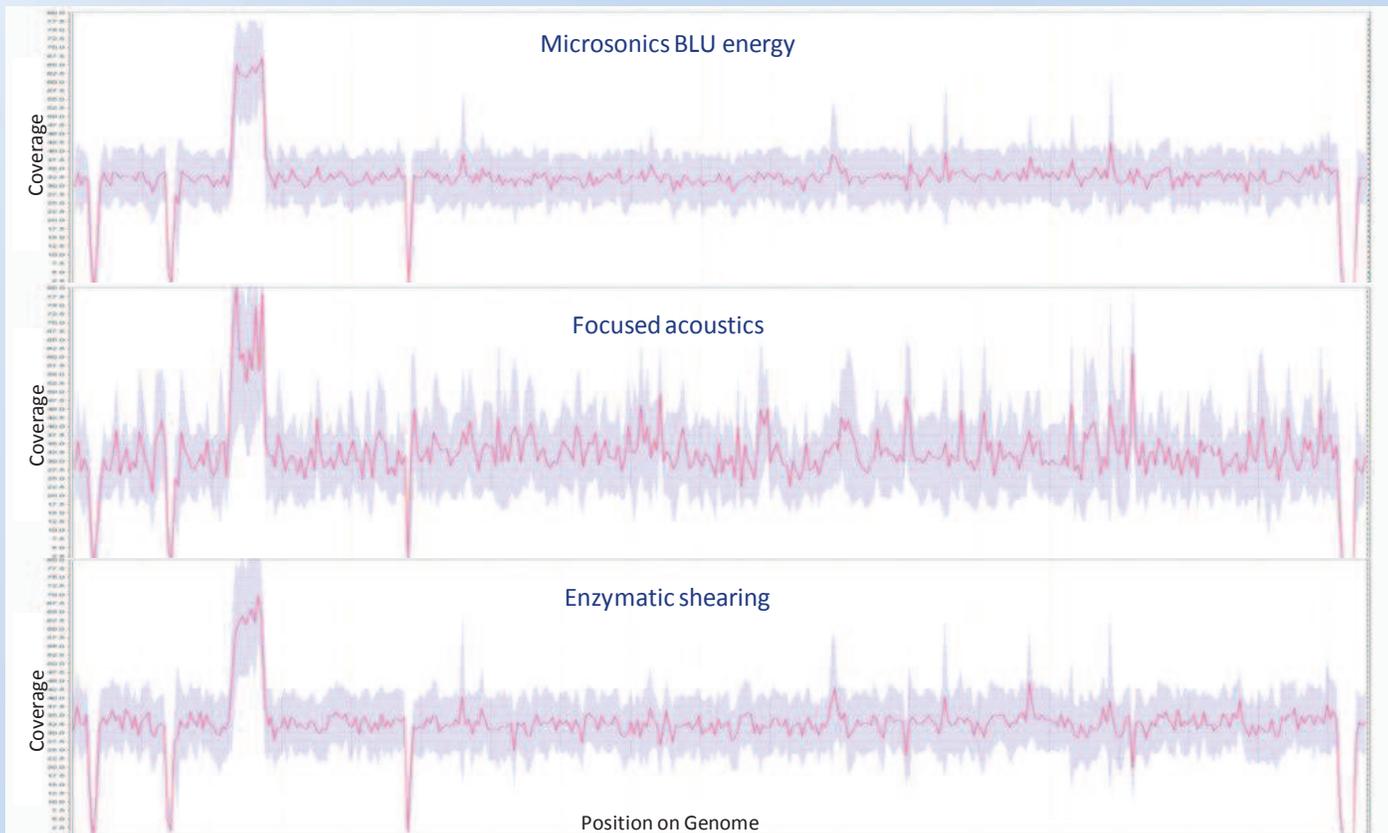
- Produces high quality high yield of fragments – validated protocols 300bp to 1.5 Kb
- Processes up to 8 samples in single batch
- Uses inexpensive Matrix 2D barcoded tubes – sample tracking via onboard barcode reader
- Built in centrifuge results in tight distribution and clean fragments that yield more efficient sequencing
- Select independent protocol for each sample via on-board touch screen
- Protocols optimized for 50µl of starting sample
- No external chiller, PC or degassed/ultrasonic grade water required
- Walk away capability - Email notification when processing complete



Human DNA samples sheared to target fragment sizes of 300 bp, 400 bp, 600 bp, 800 bp and 1.5 Kb by specifying the "Dial a DNA Fragment" settings.



Concentration independent shearing target size at five different sample concentrations



Sequencing coverage across reference genome using different shearing methods