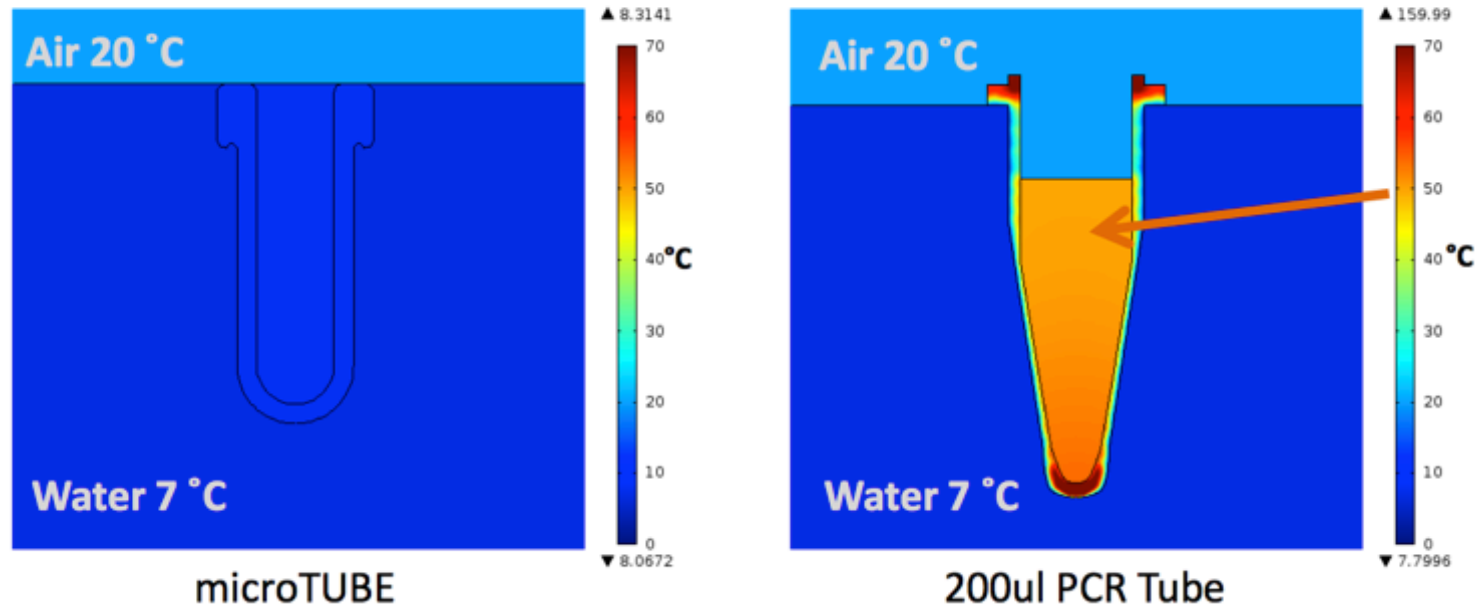


microTUBE – engineered for Covaris AFA

Temperature profiles during shearing:- engineered microTUBEs compared to PCR plates*



* 200bp fragment AFA setting of 10% duty cycle/5 intensity(175 PIP)/200 cycles per burst/180 seconds used for comparison

- DNA Shearing in PCR tubes/plates will introduce thermal biased shearing
- Plastic PCR tubes absorb acoustic energy and transfers damaging heat to sample
- Plastic also insulates sample and retards heat dissipation
- AFA-based DNA fragmentation in microTUBE is isothermal