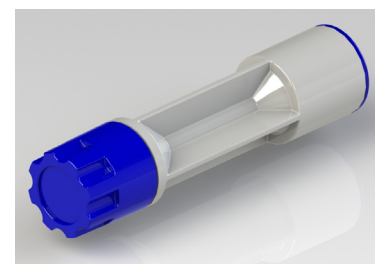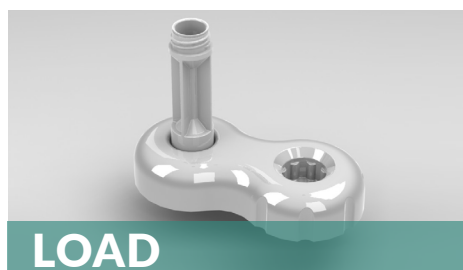# g-TUBE for DNA Shearing

- Break-through technology for shearing DNA to fragment lengths from 6 kb to 20 kb
- Easy-to-use shearing consumable, no clean-up
- Ideal for Next-Gen Sequencing (NGS) applications needing longer DNA fragments

How it Works: Load and Spin Design

Each g-TUBE contains an engineered shearing orifice. When g-TUBE is centrifuged the DNA sample is forced through the orifice and the DNA is subjected to controlled shearing forces. Fragment size is selected by setting the centrifugation speed. Sample volume is 150 µl. Tube Size is 11 x 45 mm.

LOAD
DNA sample into the g-TUBE

SPIN
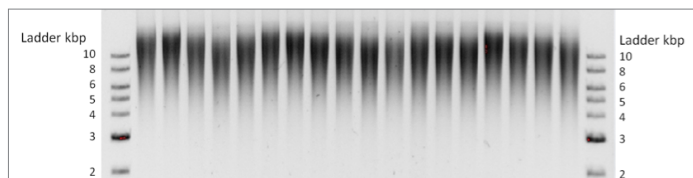g-TUBE to shear — Invert & spin again to collect

COLLECT
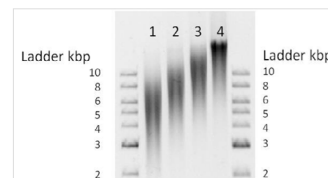Sheared DNA in the g-TUBE Cap — ready for pipetting

Benefits

- Versatile: ideal for direct sequencing, mate-pair libraries, and other applications that require longer DNA fragments.
- Selectable Fragment Size: g-TUBE shears DNA in user-selectable fragment sizes ranging from 6 to 20 kb.
- Highly Reproducible: DNA shearing results with g-TUBE are reproducible assay-to-assay, lab-to-lab, and day-to-day.

- Fast and Scalable: shear 6 to 20 kb fragments in 2 minutes or less. Runs multiple samples simultaneously.
- Efficient: high sample recovery (90% +) with a closed vessel process.
- Economical: use an Eppendorf® (MiniSpin® plus) microcentrifuge – no other equipment needed.

Reproducible

18 replicates of Lambda DNA (50 µg/ml) fragmented to 10 kbp using g-TUBEs

Selectable Fragment Size

150 µl Lambda DNA fragmented in a g-TUBE with a selected fragment length: Lane 1 - 6 kbp, Lane 2 - 8 kbp, Lane 3 - 10 kbp, Lane 4 - 20 kbp.

Part Number	Description
520079	g-TUBE (10) - Contains 10 individually wrapped g-TUBES and 1 g-TUBE Load/Unload stand