



g-TUBE for DNA Shearing

Advance your research with breakthrough shearing technology for DNA fragment lengths of 6-20 kb. Each g-TUBE contains an engineered shearing orifice. When the 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: 150 μ L | Tube size: 11x45 mm
- Easy-to-use shearing consumable, no clean-up
- Ideal for Next-Gen Sequencing (NGS) applications needing longer DNA fragments

Versatile and Efficient DNA Shearing - with the Covaris g-TUBE

- ✓ **Versatile:** Perfect 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 6–20 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 6–20 kb fragments in 2 minutes or less and run multiple samples simultaneously
- ✓ **Efficient:** High sample recovery (90%+) with a closed vessel process
- ✓ **Economical:** Use with a microcentrifuge – no other equipment needed



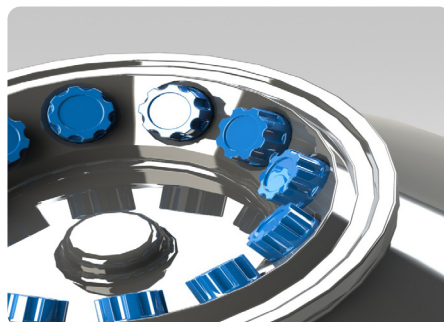
How It Works: Load and Spin Design

Load



Load the DNA sample into the g-TUBE and cap tube.

Spin



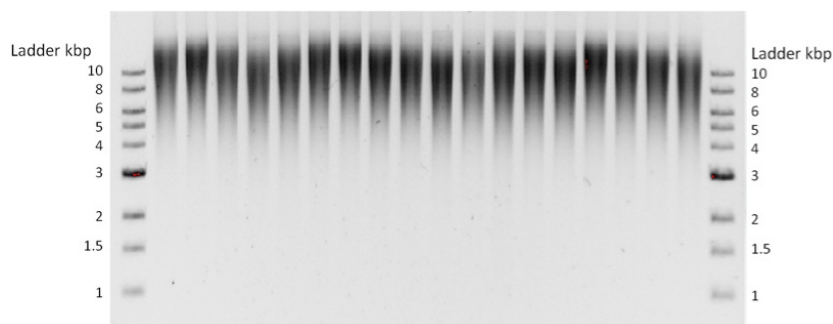
The DNA sample is ready for shearing. **Spin** the g-TUBE in a centrifuge, invert, & spin again.

Collect

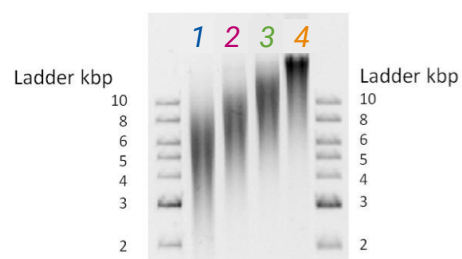


The sheared DNA sample will be in the g-TUBE Cap. Use a pipette to **Collect** sample.

g-TUBE Performance



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 in Lanes - **1** (6 kbp), **2** (8 kbp), **3** (10 kbp), & **4** (20 kbp).

Ordering Information

Product Name	Part Number	Description
g-TUBE (10)	520079	g-TUBEs for shearing DNA 6–20 kb and one g-TUBE Prep Station
g-TUBE (100)	520104	
g-TUBE Prep Station (10)	500291	10 g-TUBE Prep Stations for loading/unloading



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M020006_RevB_Nov2024

