Covaris°

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 150μ l. Tube Size is 11×45 mm.

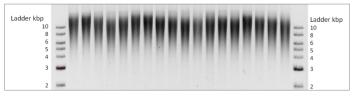


DNA sample into the g-TUBE

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.

Reproducible



18 replicates of Lambda DNA (50 $\mu\text{g/ml})$ fragmented to 10 kbp using <code>g-TUBEs</code>



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



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

- 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.

Ladder kbp 1 2 3 4 Ladder kbp 10 8 6 5 4 3 2 2 2

Selectable Fragment Size

 $150~\mu I$ 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

Information subject to change without notice. For research only. Not for use in diagnostic procedures.

Stay Connected!

USA: Tel: +1 781.932.3959 | Email: customerservice@covaris.com | Europe: Tel: +44 (0)845 872 0100 | Email: emeacustomerservice@covaris.com | APAC: +86 137 6427 6714 | Email: APACcustomerservice.com Web: www.covaris.com | Applications: applications: applications: applications: applications: applications: applications: APACcustomerservice and Support: techsupport@covaris.com | M020006_RevA_Jan2020 | 2020 © Covaris, Inc.