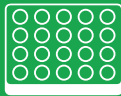


Covaris®

a PerkinElmer Company

The Best Choice for Sample Prep in Germline Sequencing

Mechanical shearing with Covaris' Adaptive Focused Acoustics® (AFA®) technology is the gold standard for DNA shearing in NGS, improving target enrichment efficiency, and providing more uniform batches with improved sequencing quality metrics. By reducing the need for additional sequencing and accommodating more samples on the flow cell, Covaris is the premier solution for enhancing NGS efficiency and lowering the associated costs while delivering high-quality NGS data.



**Superior
sample batch
uniformity**

3x

**Better fold
enrichment**



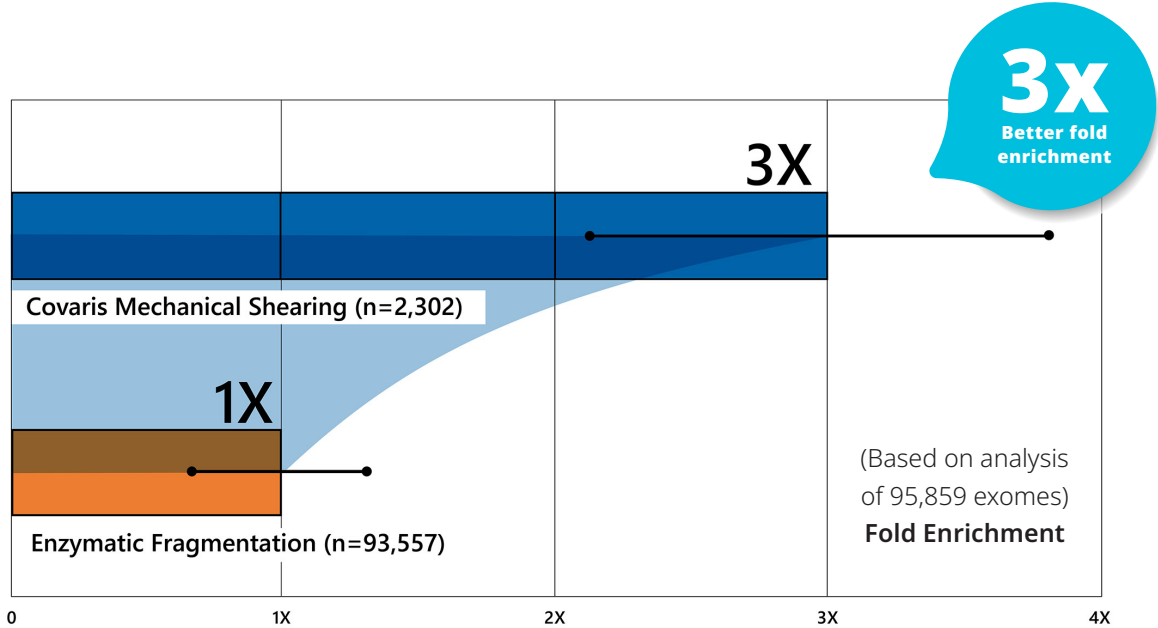
**Save time
and costs**



Scan the QR code or visit www.covaris.com/contact
to connect with a Covaris consultant!

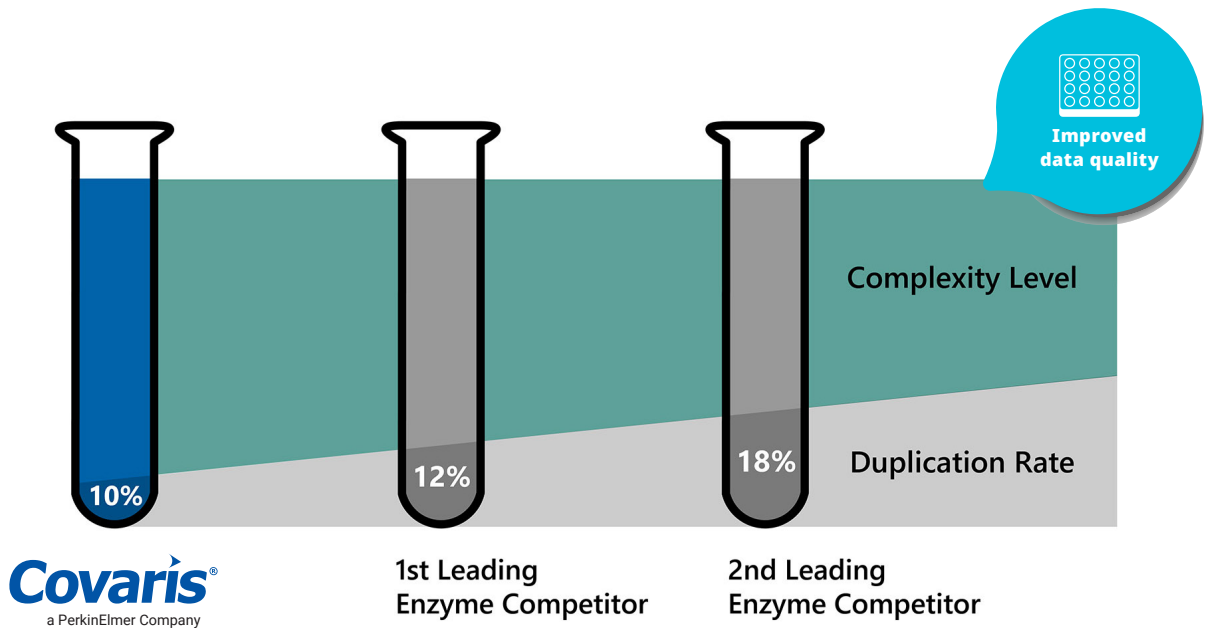
Get More From Your Flow Cell

- 3x higher target enrichment with AFA compared to enzymatic preparation
- More uniform batches and lower assay failure rates in WES or targeted panel pipelines¹



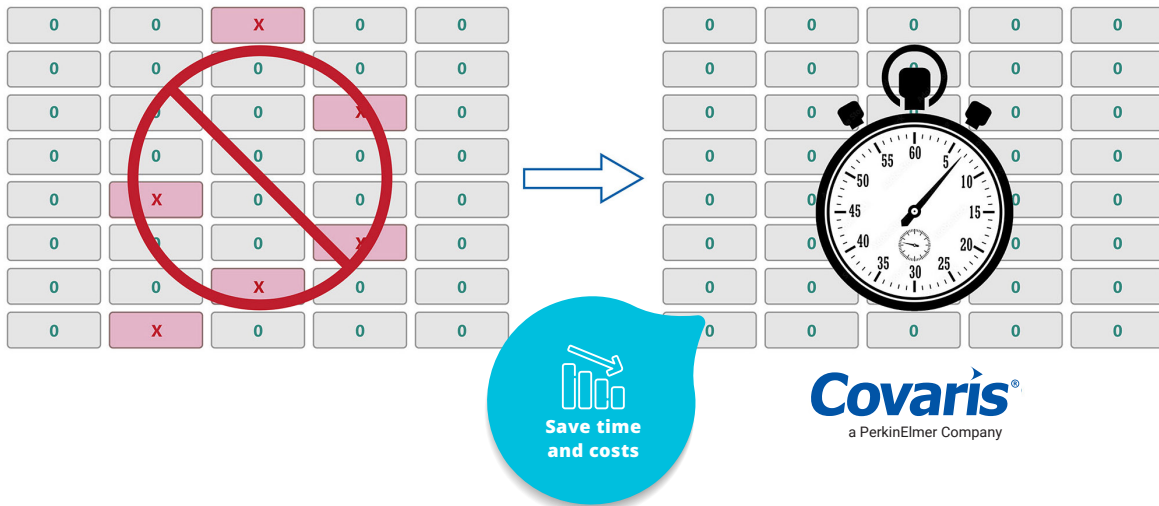
Improve Data Quality and Efficiency

- Covaris' lower duplication rate delivers higher complexity libraries and provides higher coverage at the same sequencing depth as compared to enzymatically fragmented DNA



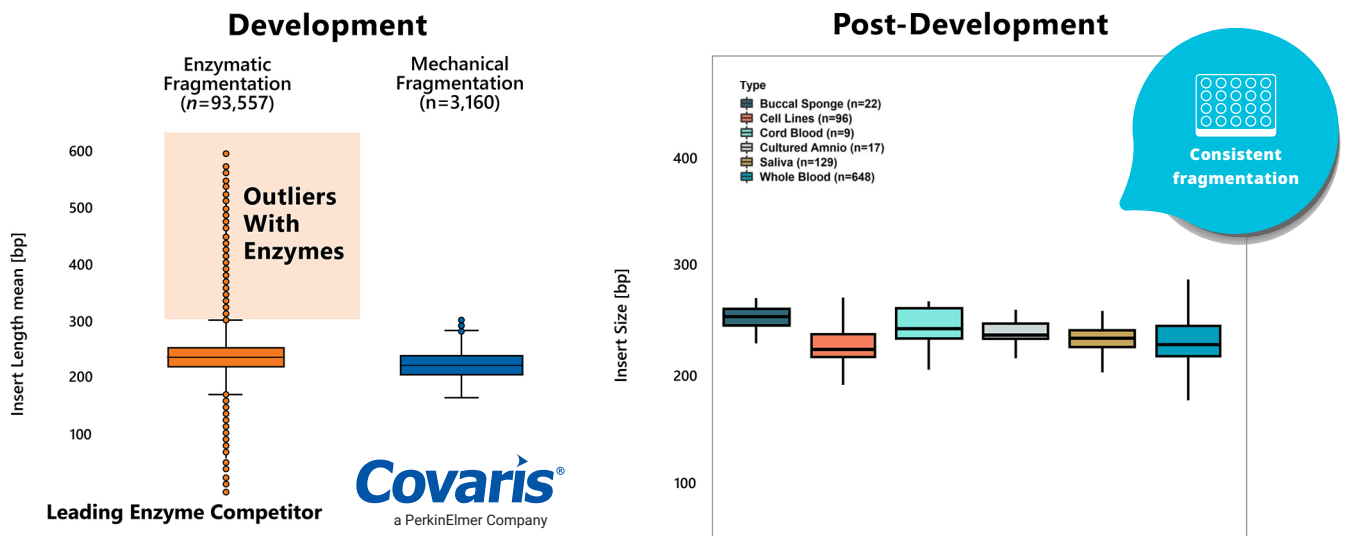
Eliminate Cross-Contamination to Save Time and Costs

- Covaris' automatable, non-contact workflow prevents the opportunity for cross-contamination, so there is no need to repeat experiments or worry about expensive sample replacement
- Streamlined data processing and analysis ensure savings in both time & computational resources



The Gold Standard for DNA Fragmentation Consistency

- Consistent DNA fragmentation compared to enzymes, regardless of sample origin
- A tunable process provides reproducible library preparation that is easy to implement¹
- Insert size significantly impacts enrichment results, and the accurate size selection can boost sequencing efficiency, save money, improve assemblies, & enable sequencing of low-input samples²



The choice is clear, make the switch to Covaris today!

Only Covaris Adaptive Focused Acoustics technology provides the gold standard in shearing for NGS, offering precise control over fragment size, superior coverage and uniformity, and consistent, reproducible results to save your lab time and money.



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References

1. Gallen, M and Serra, R. Quest Diagnostics with Covaris launches automated NGS platform, optimizing workflows to maximize lab economics. Webinar on September 7, 2023.
2. Krasnenko, et al., Effect of DNA insert length on whole-exome sequencing enrichment efficiency: an observational study. *Advances in Genomics and Genetics* 2018: 8 13–15.

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Data for all charts on file. Inquire for details.

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