

Product Information	
sparQ DNA Frag & Library Prep Kit	
Part Number	95194-096
Number of Reactions	96 Reactions
Storage Temperature	-25°C to -15°C
Lot Number	66267009
Reference Number	061924, 032724, 121523, 181R090924, 071124, 013124, 379455199
Expiration Date	08/31/2025

Product Description:

The sparQ DNA Frag & Library Prep Kit provides reagents essential for enzymatic fragmentation of DNA and the construction of libraries for sequencing on Illumina® NGS platforms. The streamlined workflow can be completed in under 3 hours with minimal hands-on time and can accommodate DNA input amounts from 1 ng to 1000 ng. The DNA fragmentation and polishing reactions are combined in a single step producing fragmented DNA that is taken through 5'-phosphorylation and 3'-dA-tailing polishing reactions. Fragment size is tunable based on reaction time. Subsequent ligation of sequencing adapters can be performed without the need for an intervening cleanup step. The optional HiFi PCR Master Mix and Primer Mix allow unbiased amplification of fragments with appropriate adapters ligated to both ends. PCR-free workflows are enabled from 100 ng of starting material.

Component Part Numbers:

84553 DNA Frag & Polishing Enzyme Mix 0.96 mL

84555 DNA Frag & Polishing Buffer 528 µL

84556 DNA Frag & Polishing Enhancer Solution 264 µL

84519 DNA Ligase 0.96 mL

84521 DNA Ligation Buffer 1.92 mL

84523 HiFi PCR Master Mix (2X) 2.4 mL

84525 Primer Mix 144 µL

Product Specifications	
95194	
Assay	Library Functional Assay
Specification	Functional

Quality Control Analysis and Specifications:

Library Prep Functional Assay: Quality of the sparQ DNA Frag & Library Prep Kit is tested functionally by preparation of a DNA library from bacterial genomic DNA with GC-content of 10-80%. The differences in library yield and profile among different lots must be within 15%. Sequencing of the amplified library must yield mapped reads >90% and normalized coverage between 0.7 and 1.3 across the full GC spectrum.

Enzyme components were tested prior to assembly and free of contaminating endonucleases and exonucleases. Enzyme purity was >95% as determined by SDS-PAGE and negligible *E. coli* genomic DNA contamination was confirmed by qPCR.

Limitations of Use

Quantabio, UltraPlex, qScript, GelTrack, ToughMix, PerfeCta, and FastMix are registered trademarks of Quantabio, LLC. Applied Biosystems, StepOne, StepOnePlus and ROX are trademarks of Thermo Fisher Scientific and or its subsidiaries. Please contact Quantabio for more information.

This product was developed, manufactured, and sold for *in vitro* use only. The product is not suitable for administration to humans or animals. SDS sheets relevant to this product are available upon request.

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