

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> FS DNA Library Prep Kit for MGI<sup>®</sup>  
*Catalog #:* E9620S/L/G  
*Kit Components:* NEBNext<sup>®</sup> FS Reaction Buffer (E9616)  
NEBNext<sup>®</sup> FS Enzyme Mix (E9617)  
NEBNext<sup>®</sup> Ligation Master Mix (E9613)  
NEBNext<sup>®</sup> Ligation Enhancer (E7374)  
NEBNext<sup>®</sup> MSTC<sup>™</sup> High Yield Master Mix (E9615)  
TE Buffer (E9614)  
*Shelf Life:* 12 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E9620S/L/G v1.0  
*Effective Date:* 06 May 2024

### Assay Name/Specification (minimum release criteria)

**Functional Testing (Library Construction, NEBNext<sup>®</sup> FS DNA Library Prep Kit for M** - Each set of reagents is functionally tested and compared to a previous lot through construction of libraries made from commercially available genomic DNA, using the kit's minimum and maximum input requirements. A fragmentation time of 15 minutes is used to generate a final average library size between 300 and 600bp as determined by electrophoresis. Libraries made from previous and current lots for both input DNA amounts are sequenced together on the same MGI<sup>®</sup> platform and compared across various metrics including library yield, fraction of reads aligning to the reference, GC bias, and insert size.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> FS DNA Library Prep Kit for MGI<sup>®</sup> and meet the designated specifications.

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Date 06 May 2024

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