

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Fast DNA Library Prep Set for Ion Torrent<sup>™</sup>  
*Catalog #:* E6270L  
*Kit Components:* NEBNext<sup>®</sup> End Repair Enzyme Mix (E6271)  
NEBNext<sup>®</sup> End Repair Reaction Buffer (E6272)  
T4 DNA Ligase (E6275)  
Bst 2.0 WarmStart<sup>®</sup> DNA Polymerase (E6277)  
T4 DNA Ligase Buffer for Ion Torrent<sup>™</sup> (E6276)  
NEBNext<sup>®</sup> DNA Library Adaptors for Ion Torrent<sup>™</sup> (E6274)  
NEBNext<sup>®</sup> DNA Library Primers for Ion Torrent<sup>™</sup> (E6291)  
TE Buffer (E6293)  
NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi PCR Master Mix (E6629)  
*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E6270L v2.0  
*Effective Date:* 29 Nov 2021

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

**Functional Testing (Library Construction, Ion Torrent<sup>™</sup>)** - Each set of reagents is functionally validated 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. Libraries made from previous and current lots for both input DNA amounts are sequenced on the Ion Torrent<sup>™</sup> platform and compared across various metrics including library yield, fraction of reads aligning to the reference, and insert size.

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

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Date 29 Nov 2021

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