

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Fast DNA Fragmentation & Library Prep Set for Ion Torrent<sup>™</sup>  
*Catalog #:* E6285S/L  
*Kit Components:* NEBNext<sup>®</sup> DNA Fragmentation Master Mix (E6286)  
NEBNext<sup>®</sup> DNA Fragmentation Reaction Buffer (E6287)  
T4 DNA Ligase (E6288)  
Bst 2.0 WarmStart<sup>®</sup> DNA Polymerase (E6277)  
T4 DNA Ligase Buffer for Ion Torrent<sup>™</sup> (E6296)  
NEBNext<sup>®</sup> DNA Library Adaptors for Ion Torrent<sup>™</sup> (E6290)  
NEBNext<sup>®</sup> DNA Library Primers for Ion Torrent<sup>™</sup> (E6291)  
TE Buffer (E6299)  
NEBNext<sup>®</sup> Stop Buffer (E6294)  
NEBNext<sup>®</sup> Q5<sup>®</sup> Hot Start HiFi PCR Master Mix (E6625)  
Magnesium Chloride (MgCl<sub>2</sub>) (E6295)

*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E6285S/L v1.0  
*Effective Date:* 15 Mar 2019

### 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 Fragmentation & Library Prep Set for Ion Torrent<sup>™</sup> and meet the designated specifications.



Date 15 Mar 2019

Derek Robinson  
Director of Quality Control

