

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Ultra<sup>™</sup> II FS DNA Module  
*Catalog #:* E7810S/L  
*Kit Components:* NEBNext<sup>®</sup> Ultra<sup>™</sup> II FS Enzyme Mix (E7806)  
NEBNext<sup>®</sup> Ultra<sup>™</sup> II FS Reaction Buffer (E7807)  
TE Buffer (E7808)

*Shelf Life:* 12 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E7810S/L v1.0  
*Effective Date:* 12 Oct 2017

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

**Functional Testing (Library Construction, FS DNA)** - Each set of reagents is functionally validated and compared to the 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 20 minutes was used to generate an insert size of approximately 200 bp. The final average library size is between 270 and 450 bp as determined by an Agilent Bioanalyzer. Libraries made from the previous and current lots for both input DNA amounts are sequenced together on the same Illumina flow cell 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> Ultra<sup>™</sup> II FS DNA Module and meet the designated specifications.

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Date 12 Oct 2017

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Quality Approver

