

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Ultra<sup>™</sup> II PCR-free Library Prep with Sample Purification Beads  
*Catalog #:* E7415S/L  
*Kit Components:* NEBNext<sup>®</sup> Ultra<sup>™</sup> II End Prep Enzyme Mix (E7646) — Store at -20°C  
NEBNext<sup>®</sup> Ultra<sup>™</sup> II End Prep Reaction Buffer (E7647) — Store at -20°C  
NEBNext<sup>®</sup> Ligation Enhancer (E7374) — Store at -20°C  
NEBNext<sup>®</sup> Ultra<sup>™</sup> II Ligation Master Mix (E7648) — Store at -20°C  
NEBNext Sample Purification beads (E7104) — Store at 25°C  
*Shelf Life:* 12 months  
*Storage Temp:* Multi-temp  
*Specification Version:* PS-E7415S/L v1.0  
*Effective Date:* 04 Nov 2021

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

**Functional Testing (Library Construction, DNA)** - 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 together on the same Illumina<sup>®</sup> 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 PCR-free Library Prep with Sample Purification Beads and meet the designated specifications.

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