

New England Biolabs Product Specification

Product Name: NEBNext[®] Ultra[™] II Directional RNA Library Prep Kit for Illumina[®]

Catalog #: E7760S/L

Kit Components: NEBNext[®] First Strand Synthesis Enzyme Mix (E7761)
NEBNext[®] Ultra[™] II End Prep Enzyme Mix (E7646)
NEBNext[®] Second Strand Synthesis Enzyme Mix (E7425)
NEBNext[®] USER[™] Enzyme (E7428)
Random Primers (E7422)
NEBNext[®] Ligation Enhancer (E7374)
NEBNext[®] Ultra[™] II Q5[®] Master Mix (E7649)
NEBNext[®] Ultra[™] II End Prep Reaction Buffer (E7647)
NEBNext[®] First Strand Synthesis Reaction Buffer (E7421)
NEBNext[®] Second Strand Synthesis Reaction Buffer (dUTP Mix) (E7426)
NEBNext[®] Strand Specificity Reagent (E7766)
NEBNext[®] Ultra[™] II Ligation Master Mix (E7648)
NEBNext[®] Adaptor Dilution Buffer (E7762)
0.1X TE (E7763)
Nuclease Free Water (E7764)

Shelf Life: 18 months

Storage Temp: -20°C

Specification Version: PS-E7760S/L v1.0

Effective Date: 05 May 2017

Assay Name/Specification (minimum release criteria)

Functional Testing (Library Construction, RNA) - Each set of reagents is functionally validated and compared to the previous lot through construction of libraries made from commercially available RNA, using the kit's minimum and maximum input requirements. Libraries made from the previous and current lots for both input RNA amounts are sequenced together on the same Illumina flow cell and compared across various metrics including library yield, individual transcript abundance correlations (low vs. high input, old lot vs. new lot), 5'-3' transcript coverage, and fraction of reads mapping to a reference.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext[®] Ultra[™] II Directional RNA Library Prep Kit for Illumina[®] and meet the designated specifications.



Date 05 May 2017

Derek Robinson
Director of Quality Control

