

New England Biolabs Product Specification

Product Name: NEBNext[®] Ultra[™] Directional RNA Library Prep Kit for Illumina[®]
Catalog #: E7420S/L
Kit Components: NEBNext[®] First Strand Synthesis Reaction Buffer (E7421)
Random Primers (E7422)
ProtoScript[®] II Reverse Transcriptase (E7423)
RNase Inhibitor, Murine (E7424)
NEBNext[®] Second Strand Synthesis Enzyme Mix (E7425)
NEBNext[®] Second Strand Synthesis Reaction Buffer (dUTP Mix) (E7426)
NEBNext[®] End Prep Enzyme Mix (E7371)
NEBNext[®] End Repair Reaction Buffer (E7372)
Blunt/TA Ligase Master Mix (E7373)
Nuclease-free Water (E7431)
NEBNext[®] Q5[®] Hot Start HiFi PCR Master Mix (E6625)
NEBNext[®] USER[®] Enzyme (E7428)

Shelf Life: 18 months
Storage Temp: -20°C
Specification Version: PS-E7420S/L v1.0
Effective Date: 12 Jul 2018

Assay Name/Specification (minimum release criteria)

Functional Testing (Library Construction, RNA) - Each set of reagents is functionally validated and compared to a previous lot through construction of libraries made from commercially available RNA, using the kit's minimum and maximum input requirements. Libraries made from 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[™] Directional RNA Library Prep Kit for Illumina[®] and meet the designated specifications.



Date 12 Jul 2018

Derek Robinson
Director of Quality Control

