

New England Biolabs Product Specification

Product Name: NEBNext[®] Ultra[™] II RNA Library Prep with Sample Purification Beads
Catalog #: E7775S/L
Kit Components: NEBNext[®] Sample Purification Beads (E7767)
NEBNext[®] Ultra[™] II RNA Library Prep Kit for Illumina[®] (E7770)
Shelf Life: 18 months
Storage Temp: -20°C
Specification Version: PS-E7775S/L v1.0
Effective Date: 08 May 2017

Assay Name/Specification (minimum release criteria)

Functional Testing (Purification Beads) - The NEBNext Sample Purification Beads are used to construct RNA libraries using the related RNA workflow. The Sample Purification Beads are used for both size selection of adaptor ligated DNA and cleanup of the PCR reaction. The RNA libraries are run on an Agilent Bioanalyzer to ensure proper size distribution.

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 RNA Library Prep with Sample Purification Beads and meet the designated specifications.



Date 08 May 2017

Derek Robinson
Director of Quality Control

