

## New England Biolabs Product Specification

*Product Name:* NEBNext UltraExpress™ RNA Library Prep Kit  
*Catalog #:* E3330G  
*Kit Components:* NEBNext UltraExpress™ RNA Fragmentation Mix (E3329)  
NEBNext UltraExpress™ First Strand Enzyme Mix (E3331)  
NEBNext UltraExpress™ Strand Specificity Reagent (E3332)  
NEBNext UltraExpress™ Second Strand Master Mix (E3333)  
NEBNext UltraExpress™ End Prep Enzyme Mix (E3334)  
NEBNext UltraExpress™ End Prep Reaction Buffer (E3335)  
NEBNext UltraExpress™ Ligation Master Mix (E3336)  
NEBNext UltraExpress™ USER Enzyme (E3337)  
NEBNext® MSTC™ High Yield Master Mix (E3338)  
NEBNext® Adaptor Dilution Buffer (E7762)  
0.1X TE (E3341)  
Nuclease-free Water (E3342)  
NEBNext® Bead Reconstitution Buffer (E3339)

*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E3330G v1.0  
*Effective Date:* 27 Sep 2023

### 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 UltraExpress™ RNA Library Prep Kit and meet the designated specifications.

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Date 27 Sep 2023

Lauren Brown  
Quality Approver

