

## New England Biolabs Product Specification

*Product Name:* NEBNext<sup>®</sup> Ultra<sup>™</sup> II Directional RNA Second Strand Synthesis Module  
*Catalog #:* E7550S/L  
*Kit Components:* NEBNext<sup>®</sup> Second Strand Synthesis Enzyme Mix (E7425)  
NEBNext<sup>®</sup> Second Strand Synthesis Reaction Buffer (dUTP Mix) (E7426)

*Shelf Life:* 18 months  
*Storage Temp:* -20°C  
*Specification Version:* PS-E7550S/L v1.0  
*Effective Date:* 22 Jun 2018

### 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<sup>®</sup> Ultra<sup>™</sup> II Directional RNA Second Strand Synthesis Module and meet the designated specifications.

\* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Date 22 Jun 2018

Derek Robinson  
Director of Quality Control

