

## New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®  
 Catalog Number: E7760G  
 Packaging Lot Number: 10158529  
 Expiration Date: 05/2023  
 Storage Temperature: -20°C  
 Specification Version: PS-E7760G v1.0

| NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina® Component List |   |            |                      |
|--|---|------------|----------------------|
| NEB Part Number  | Component Description                                       | Lot Number | Individual QC Result |
| E7766GVIAL   | NEBNext® Strand Specificity Reagent                         | 10123296   | Pass                 |
| E7764GVIAL   | Nuclease-free Water   | 10123295   | Pass                 |
| E7763GVIAL   | (0.1X) TE Buffer  | 10123293   | Pass                 |
| E7762GVIAL   | NEBNext Adaptor Dilution Buffer                             | 10123292   | Pass                 |
| E7761GVIAL   | NEBNext First Strand Synthesis Enzyme Mi                    | 10123291   | Pass                 |
| E7649GVIAL   | NEBNext® Ultra™ II Q5® Master Mix                           | 10123290   | Pass                 |
| E7648GVIAL   | NEBNext® Ultra™ II Ligation Master Mix                      | 10123289   | Pass                 |
| E7647GVIAL   | NEBNext® Ultra™ II End Prep Reaction Buffer                 | 10123288   | Pass                 |
| E7646GVIAL   | NEBNext® Ultra™ II End Prep Enzyme Mix                      | 10123287   | Pass                 |
| E7428GVIAL   | NEBNext® USER® Enzyme                                       | 10123286   | Pass                 |
| E7426GVIAL   | NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix) | 10123285   | Pass                 |
| E7425GVIAL   | NEBNext® Second Strand Synthesis Enzyme Mix                 | 10123284   | Pass                 |
| E7422GVIAL   | Random Primers  | 10123283   | Pass                 |
| E7421GVIAL   | NEBNext® First Strand Synthesis Reaction Buffer             | 10123282   | Pass                 |
| E7374GVIAL   | NEBNext® Ligation Enhancer                                  | 10123281   | Pass                 |

| Assay Name/Specification   | Lot # 10158529 |
|--|----------------|
| <p><b>* Individual Product Component Note</b><br/>           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.</p>   | Pass           |
| <p><b>Functional Testing (Library Construction, RNA)</b><br/>           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</p> | Pass           |

| Assay Name/Specification  | Lot # 10158529 |
|---|----------------|
| 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. |                |

This product has been tested and shown to be in compliance with all specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.




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Christine Sumner  
Production Scientist  
19 Jul 2022




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Michael Tonello  
Packaging Quality Control Inspector  
19 Jul 2022