

New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ Directional RNA Library Prep Kit for Illumina®
 Catalog Number: E7420S
 Lot Number: 10054153
 Expiration Date: 12/2020
 Storage Temperature: -20°C
 Specification Version: PS-E7420S/L v1.0

| NEBNext® Ultra™ Directional RNA Library Prep Kit for Illumina® Component List | | | |
|---|---|------------|----------------------|
| NEB Part Number | Component Description | Lot Number | Individual QC Result |
| E7431AVIAL | Nuclease-free Water | 10044422 | Pass |
| E7428AVIAL | NEBNext® USER® Enzyme | 10044423 | Pass |
| E7426AVIAL | NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix) | 10044418 | Pass |
| E7425AVIAL | NEBNext® Second Strand Synthesis Enzyme Mix | 10044417 | Pass |
| E7424AVIAL | RNase Inhibitor, Murine | 10044416 | Pass |
| E7423AVIAL | ProtoScript® II Reverse Transcriptase | 10044424 | Pass |
| E7422AVIAL | Random Primers | 10044415 | Pass |
| E7421AVIAL | NEBNext® First Strand Synthesis Reaction Buffer | 10044414 | Pass |
| E7373AVIAL | Blunt/TA Ligase Master Mix | 10044421 | Pass |
| E7372AVIAL | NEBNext® End Repair Reaction Buffer | 10044420 | Pass |
| E7371AVIAL | NEBNext® End Prep Enzyme Mix | 10044419 | Pass |
| E6625AVIAL | NEBNext® Q5® Hot Start HiFi PCR Master Mix | 10044425 | Pass |

| Assay Name/Specification | Lot # 10054153 |
|---|-------------------------|
| <p>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.</p> <p>* 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</p> | <p>Pass</p> <p>Pass</p> |

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|--------------------------|----------------|
| specifications. | |

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



Christine Sumner
Production Scientist
22 Aug 2019



Michael Tonello
Packaging Quality Control Inspector
22 Aug 2019