240 County Road
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New England Biolabs
Certificate of Analysis

Product Name: *NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®*
Catalog Number: *E7760L*
Packaging Lot Number: *10253414*
Expiration Date: *01/2026*
Storage Temperature: *-20°C*
Specification Version: *PS-E7760S/L v1.0*

NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina® Component List			
NEB Part Number	**Component Description**	**Lot Number**	**Individual QC Result**
E7766AAVIAL	NEBNext® Strand Specificity Reagent	10246609	**Pass**
E7764AAVIAL	Nuclease-free Water	10246606	**Pass**
E7763AAVIAL	0.1X TE	10246603	**Pass**
E7762AAVIAL	NEBNext® Adaptor Dilution Buffer	10246601	**Pass**
E7761AAVIAL	NEBNext® First Strand Synthesis Enzyme Mix	10246598	**Pass**
E7649AAVIAL	NEBNext® Ultra™ II Q5® Master Mix	10246595	**Pass**
E7648AAVIAL	NEBNext® Ultra™ II Ligation Master Mix	10246592	**Pass**
E7647AAVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10246589	**Pass**
E7646AAVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10246586	**Pass**
E7428AAVIAL	NEBNext® USER® Enzyme	10253415	**Pass**
E7426AAVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10246581	**Pass**
E7425AAVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10246579	**Pass**
E7422AAVIAL	Random Primers	10246577	**Pass**
E7421AAVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10246575	**Pass**
E7374AAVIAL	NEBNext® Ligation Enhancer	10246573	**Pass**

Assay Name/Specification	Lot # 10253414
*** Individual Product Component Note** 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.	**Pass**
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	**Pass**

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Assay Name/Specification	Lot # 10253414
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.

Christine Sumner
Production Scientist
08 Oct 2024

Michael Tonello
Packaging Quality Control Inspector
24 Feb 2025