NEW ENGLAND BioLabs Inc.
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Ipswich, MA 01938-2723
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New England Biolabs
Certificate of Analysis

Product Name: *NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®*
Catalog Number: *E7760G*
Packaging Lot Number: *10165785*
Expiration Date: *04/2024*
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	10165800	**Pass**
E7764GVIAL	Nuclease-free Water	10165799	**Pass**
E7763GVIAL	(0.1X) TE Buffer	10165798	**Pass**
E7762GVIAL	NEBNext Adaptor Dilution Buffer	10165797	**Pass**
E7761GVIAL	NEBNext First Strand Synthesis Enzyme Mi	10165796	**Pass**
E7649GVIAL	NEBNext® Ultra™ II Q5® Master Mix	10165795	**Pass**
E7648GVIAL	NEBNext® Ultra™ II Ligation Master Mix	10165794	**Pass**
E7647GVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10165793	**Pass**
E7646GVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10165792	**Pass**
E7428GVIAL	NEBNext® USER® Enzyme	10165791	**Pass**
E7426GVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10165790	**Pass**
E7425GVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10165789	**Pass**
E7422GVIAL	Random Primers	10165788	**Pass**
E7421GVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10165787	**Pass**
E7374GVIAL	NEBNext® Ligation Enhancer	10165786	**Pass**

Assay Name/Specification	Lot # 10165785
*** 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 # 10165785
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
29 Nov 2022

Michael Tonello
Packaging Quality Control Inspector
26 Jan 2023