NEW ENGLAND BioLabs Inc.
be INSPIRED drive DISCOVERY stay GENUINE
240 County Road
Ipswich, MA 01938-2723
Tel 978-927-5054
Fax 978-921-1350
www.neb.com
info@neb.com

New England Biolabs
Certificate of Analysis

Product Name: *NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®*
Catalog Number: *E7760L*
Lot Number: *10043346*
Expiration Date: *09/2020*
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	10039896	**Pass**
E7764AAVIAL	Nuclease Free Water	10039895	**Pass**
E7763AAVIAL	0.1X TE	10039894	**Pass**
E7762AAVIAL	NEBNext® Adaptor Dilution Buffer	10039893	**Pass**
E7761AAVIAL	NEBNext® First Strand Synthesis Enzyme Mix	10039892	**Pass**
E7649AAVIAL	NEBNext® Ultra™ II Q5® Master Mix	10039891	**Pass**
E7648AAVIAL	NEBNext® Ultra™ II Ligation Master Mix	10039890	**Pass**
E7647AAVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10039889	**Pass**
E7646AAVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10039888	**Pass**
E7428AAVIAL	NEBNext® USER® Enzyme	10039887	**Pass**
E7426AAVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10039886	**Pass**
E7425AAVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10039885	**Pass**
E7422AAVIAL	Random Primers	10039884	**Pass**
E7421AAVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10039882	**Pass**
E7374AAVIAL	NEBNext® Ligation Enhancer	10039880	**Pass**

Assay Name/Specification	Lot # 10043346
*** 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 # 10043346
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
19 Apr 2019

Michael Tonello
Packaging Quality Control Inspector
19 Apr 2019