

## New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®  
 Catalog Number: E7760L  
 Lot Number: 10039873  
 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	10044295	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 # 10039873
<p><b>Functional Testing (Library Construction, RNA)</b></p> <p>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 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>	Pass

Assay Name/Specification	Lot # 10039873
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> Ultra<sup>™</sup> II Directional RNA Library Prep Kit for Illumina<sup>®</sup> and meet the designated specifications.</p>	<p><b>Pass</b></p>

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




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Christine Sumner  
Production Scientist  
07 Oct 2019




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Michael Tonello  
Packaging Quality Control Inspector  
07 Oct 2019