

## New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ Directional RNA Library Prep Kit for Illumina®  
 Catalog Number: E7420L  
 Lot Number: 10051092  
 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
E7431AAVIAL	Nuclease-free Water	10044435	Pass
E7428AAVIAL	NEBNext® USER® Enzyme	10044436	Pass
E7426AAVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10044431	Pass
E7425AAVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10044430	Pass
E7424AAVIAL	RNase Inhibitor, Murine	10044429	Pass
E7423AAVIAL	ProtoScript® II Reverse Transcriptase	10044437	Pass
E7422AAVIAL	Random Primers	10044428	Pass
E7421AAVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10044427	Pass
E7373AAVIAL	Blunt/TA Ligase Master Mix	10044434	Pass
E7372AAVIAL	NEBNext® End Repair Reaction Buffer	10044433	Pass
E7371AAVIAL	NEBNext® End Prep Enzyme Mix	10044432	Pass
E6625AAVIAL	NEBNext® Q5® Hot Start HiFi PCR Master Mix	10044438	Pass

Assay Name/Specification	Lot # 10051092
<p><b>Functional Testing (Library Construction, RNA)</b>            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><b>* Individual Product Component Note</b>            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>

Assay Name/Specification	Lot # 10051092
specifications.	

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



Christine Sumner  
Production Scientist  
25 Jul 2019



Michael Tonello  
Packaging Quality Control Inspector  
25 Jul 2019