

## New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ Directional RNA Library Prep Kit for Illumina®  
 Catalog Number: E7420S  
 Lot Number: 10051028  
 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
E7431AVIAL	Nuclease-free Water	10044422	Pass
E7428AVIAL	NEBNext® USER® Enzyme	10044423	Pass
E7426AVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10044418	Pass
E7425AVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10044417	Pass
E7424AVIAL	RNase Inhibitor, Murine	10044416	Pass
E7423AVIAL	ProtoScript® II Reverse Transcriptase	10044424	Pass
E7422AVIAL	Random Primers	10044415	Pass
E7421AVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10044414	Pass
E7373AVIAL	Blunt/TA Ligase Master Mix	10044421	Pass
E7372AVIAL	NEBNext® End Repair Reaction Buffer	10044420	Pass
E7371AVIAL	NEBNext® End Prep Enzyme Mix	10044419	Pass
E6625AVIAL	NEBNext® Q5® Hot Start HiFi PCR Master Mix	10044425	Pass

Assay Name/Specification	Lot # 10051028
<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 # 10051028
specifications.	

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



Christine Sumner  
Production Scientist  
23 Jul 2019



Michael Tonello  
Packaging Quality Control Inspector  
23 Jul 2019