

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® Ultra™ II Directional RNA Library Prep Kit for Illumina®  
**Catalog Number:** E7760S  
**Packaging Lot Number:** 10246583  
**Expiration Date:** 01/2026  
**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
E7766AVIAL	NEBNext® Strand Specificity Reagent	10246628	Pass
E7764AVIAL	Nuclease-free Water	10246625	Pass
E7763AVIAL	0.1X TE	10246622	Pass
E7762AVIAL	NEBNext® Adaptor Dilution Buffer	10246619	Pass
E7761AVIAL	NEBNext® First Strand Synthesis Enzyme Mix	10246616	Pass
E7649AVIAL	NEBNext® Ultra™ II Q5® Master Mix	10246614	Pass
E7648AVIAL	NEBNext® Ultra™ II Ligation Master Mix	10246611	Pass
E7647AVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10246608	Pass
E7646AVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10246605	Pass
E7428AVIAL	NEBNext® USER® Enzyme	10246602	Pass
E7426AVIAL	NEBNext® Second Strand Synthesis Reaction Buffer (dUTP Mix)	10246600	Pass
E7425AVIAL	NEBNext® Second Strand Synthesis Enzyme Mix	10246597	Pass
E7422AVIAL	Random Primers	10246594	Pass
E7421AVIAL	NEBNext® First Strand Synthesis Reaction Buffer	10246591	Pass
E7374AVIAL	NEBNext® Ligation Enhancer	10246588	Pass

Assay Name/Specification	Lot # 10246583
<p><b>* Individual Product Component Note</b> 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.</p>	Pass
<p><b>Functional Testing (Library Construction, RNA)</b> 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</p>	Pass

Assay Name/Specification	Lot # 10246583
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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit [www.neb.com/trademarks](http://www.neb.com/trademarks) for additional information.



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Christine Sumner  
Production Scientist  
14 Aug 2024



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Josh Hersey  
Packaging Quality Control Inspector  
30 Oct 2024