

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> Ultra<sup>™</sup> II DNA Library Prep Kit for Illumina<sup>®</sup>  
 Catalog Number: E7645L  
 Packaging Lot Number: 10211572  
 Expiration Date: 08/2024  
 Storage Temperature: -20°C  
 Specification Version: PS-E7645S/L v1.0

NEBNext <sup>®</sup> Ultra <sup>™</sup> II DNA Library Prep Kit for Illumina <sup>®</sup> Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7649AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Q5 <sup>®</sup> Master Mix	10200448	Pass
E7648AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Ligation Master Mix	10200445	Pass
E7647AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Reaction Buffer	10200444	Pass
E7646AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Enzyme Mix	10200443	Pass
E7374AAVIAL	NEBNext <sup>®</sup> Ligation Enhancer	10200447	Pass

Assay Name/Specification	Lot # 10211572
<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 DNA Library Prep Kit for Illumina<sup>®</sup> and meet the designated specifications.</p> <p><b>Functional Testing (Library Construction, DNA)</b>            Each set of reagents is functionally validated and compared to a previous lot through construction of libraries made from commercially available genomic DNA, using the kit's minimum and maximum input requirements. Libraries made from previous and current lots for both input DNA amounts are sequenced together on the same Illumina<sup>®</sup> flow cell and compared across various metrics including library yield, fraction of reads aligning to the reference, GC bias, and insert size.</p>	<p>Pass</p> <p>Pass</p>

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.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
05 Oct 2023

*Josh Hersey*

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Josh Hersey  
Packaging Quality Control Inspector  
05 Oct 2023