

## 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: E7645S  
 Packaging Lot Number: 10178408  
 Expiration Date: 12/2023  
 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
E7649AVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Q5 <sup>®</sup> Master Mix	10169207	Pass
E7648AVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Ligation Master Mix	10169205	Pass
E7647AVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Reaction Buffer	10169204	Pass
E7646AVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Enzyme Mix	10169203	Pass
E7374AVIAL	NEBNext <sup>®</sup> Ligation Enhancer	10169206	Pass

Assay Name/Specification	Lot # 10178408
<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.	Pass
<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.	Pass

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  
24 Jan 2023

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
24 Jan 2023