

## 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: 10123091  
 Expiration Date: 05/2022  
 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	10109294	Pass
E7648AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Ligation Master Mix	10109292	Pass
E7647AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Reaction Buffer	10114494	Pass
E7646AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II End Prep Enzyme Mix	10114493	Pass
E7374AAVIAL	NEBNext <sup>®</sup> Ligation Enhancer	10109293	Pass

Assay Name/Specification	Lot # 10123091
<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*

---

Christine Sumner  
Production Scientist  
24 Sep 2021

*Michael Tonello*

---

Michael Tonello  
Packaging Quality Control Inspector  
24 Sep 2021