

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® Ultra™ II DNA Library Prep Kit for Illumina®  
**Catalog Number:** E7645L  
**Packaging Lot Number:** 10278177  
**Expiration Date:** 01/2026  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E7645S/L v1.0

NEBNext® Ultra™ II DNA Library Prep Kit for Illumina® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7649AAVIAL	NEBNext® Ultra™ II Q5® Master Mix	10266689	Pass
E7648AAVIAL	NEBNext® Ultra™ II Ligation Master Mix	10266685	Pass
E7647AAVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10266683	Pass
E7646AAVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10266681	Pass
E7374AAVIAL	NEBNext® Ligation Enhancer	10266687	Pass

Assay Name/Specification	Lot # 10278177
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in NEBNext® Ultra™ II DNA Library Prep Kit for Illumina® and meet the designated specifications.</p>	<b>Pass</b>
<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® flow cell and compared across various metrics including library yield, fraction of reads aligning to the reference, GC bias, and insert size.</p>	<b>Pass</b>

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  
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20 Feb 2025

*Michael Tonello*

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Packaging Quality Control Inspector  
20 Feb 2025