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New England Biolabs
Certificate of Analysis

Product Name:	*NEBNext® Ultra™ II DNA Library Prep Kit for Illumina®*
Catalog Number:	*E7645S*
Packaging Lot Number:	*10222557*
Expiration Date:	*12/2024*
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**
E7649AVIAL	NEBNext® Ultra™ II Q5® Master Mix	10222562	**Pass**
E7648AVIAL	NEBNext® Ultra™ II Ligation Master Mix	10222560	**Pass**
E7647AVIAL	NEBNext® Ultra™ II End Prep Reaction Buffer	10222559	**Pass**
E7646AVIAL	NEBNext® Ultra™ II End Prep Enzyme Mix	10222558	**Pass**
E7374AVIAL	NEBNext® Ligation Enhancer	10222561	**Pass**

Assay Name/Specification	Lot # 10222557
* Individual Product Component Note 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.	**Pass**
Functional Testing (Library Construction, DNA) 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.	**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 for additional information.

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12 Jan 2024

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Packaging Quality Control Inspector
28 Mar 2024