

New England Biolabs Certificate of Analysis

Product Name: NEBNext® Ultra™ II FS DNA Library Prep Kit for Illumina®
Catalog Number: E7805G
Packaging Lot Number: 10274178
Expiration Date: 01/2026
Storage Temperature: -20°C
Specification Version: PS-E7805G v1.0

NEBNext® Ultra™ II FS DNA Library Prep Kit for Illumina® Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7808GVIAL	TE Buffer	10274191	Pass
E7807GVIAL	NEBNext® Ultra™ II FS Reaction Buffer	10274189	Pass
E7806GVIAL	NEBNext® Ultra™ II FS Enzyme Mix	10274186	Pass
E7649GVIAL	NEBNext® Ultra™ II Q5® Master Mix	10274185	Pass
E7648GVIAL	NEBNext® Ultra™ II Ligation Master Mix	10274183	Pass
E7374GVIAL	NEBNext® Ligation Enhancer	10274181	Pass

Assay Name/Specification	Lot # 10274178
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in NEBNext® Ultra™ II FS DNA Library Prep Kit for Illumina® and meet the designated specifications.</p>	Pass
<p>Functional Testing (Library Construction, FS DNA) Each set of reagents is functionally validated and compared to the previous lot through construction of libraries made from commercially available genomic DNA, using the kit's minimum and maximum input requirements. A fragmentation time of 20 minutes was used to generate an insert size of approximately 200 bp. The final average library size is between 270 and 450 bp as determined by an Agilent Bioanalyzer. Libraries made from the 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>	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.





Christine Sumner
Production Scientist
21 Feb 2025



Michael Tonello
Packaging Quality Control Inspector
15 Apr 2025