

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> Ultra<sup>™</sup> II FS DNA Library Prep Kit for Illumina<sup>®</sup>  
 Catalog Number: E7805G  
 Packaging Lot Number: 10180983  
 Expiration Date: 01/2024  
 Storage Temperature: -20°C  
 Specification Version: PS-E7805G v1.0

NEBNext <sup>®</sup> Ultra <sup>™</sup> II FS DNA Library Prep Kit for Illumina <sup>®</sup> Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7808GVIAL	TE Buffer	10174767	Pass
E7807GVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II FS Reaction Buffer	10174766	Pass
E7806GVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II FS Enzyme Mix	10174765	Pass
E7649GVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Q5 <sup>®</sup> Master Mix	10174764	Pass
E7648GVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Ligation Master Mix	10174763	Pass
E7374GVIAL	NEBNext <sup>®</sup> Ligation Enhancer	10174762	Pass

Assay Name/Specification	Lot # 10180983
<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 FS DNA Library Prep Kit for Illumina<sup>®</sup> and meet the designated specifications.</p> <p><b>Functional Testing (Library Construction, FS DNA)</b>            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>	<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*

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14 Feb 2023

*Josh Hersey*

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Packaging Quality Control Inspector  
14 Feb 2023