

## 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: E7805L  
 Lot Number: 10014763  
 Expiration Date: 12/2018  
 Storage Temperature: -20°C  
 Specification Version: PS-E7805S/L 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
E7808AAVIAL	TE Buffer	0081712	Pass
E7807AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II FS Reaction Buffer	0031712	Pass
E7806AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II FS Enzyme Mix	0031712	Pass
E7649AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Q5 <sup>®</sup> Master Mix	0091712	Pass
E7648AAVIAL	NEBNext <sup>®</sup> Ultra <sup>™</sup> II Ligation Master Mix	0371712	Pass
E7374AAVIAL	NEBNext <sup>®</sup> Ligation Enhancer	0031712	Pass

Assay Name/Specification	Lot # 10014763
<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.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
02 Jul 2018

*Josh Hersey*

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Josh Hersey  
Packaging Quality Control Inspector  
03 Jul 2018