

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> DNA Library Prep Master Mix Set for Illumina<sup>®</sup>  
 Catalog Number: E6040S  
 Lot Number: 10050942  
 Expiration Date: 10/2020  
 Storage Temperature: -20°C  
 Specification Version: PS-E6040S/L v1.0

| NEBNext <sup>®</sup> DNA Library Prep Master Mix Set for Illumina <sup>®</sup> Component List |  |            |                      |
|---|--|------------|----------------------|
| NEB Part Number   | Component Description  | Lot Number | Individual QC Result |
| E6630AVIAL  | NEBNext <sup>®</sup> Q5 <sup>®</sup> Hot Start HiFi PCR Master Mix | 10041984   | Pass                 |
| E6048AVIAL  | Quick Ligation <sup>™</sup> Reaction Buffer, 5X                    | 10041982   | Pass                 |
| E6047AVIAL  | Quick T4 DNA Ligase  | 10041978   | Pass                 |
| E6045AVIAL  | NEBNext <sup>®</sup> dA-Tailing Reaction Buffer                    | 10041983   | Pass                 |
| E6044AVIAL  | Klenow Fragment (3'-5' exo-)                                       | 10041980   | Pass                 |
| E6042AVIAL  | NEBNext <sup>®</sup> End Repair Reaction Buffer                    | 10041981   | Pass                 |
| E6041AVIAL  | NEBNext <sup>®</sup> End Repair Enzyme Mix                         | 10041979   | Pass                 |

| Assay Name/Specification   | Lot # 10050942 |
|--|----------------|
| <p><b>Functional Testing (Library Construction, DNA)</b><br/>           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> | Pass           |
| <p><b>* Individual Product Component Note</b><br/>           Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> DNA Library Prep Master Mix Set for Illumina<sup>®</sup> and meet the designated specifications.</p>  | Pass           |

This product has been tested and shown to be in compliance with all specifications.

*Christine Sumner*

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Christine Sumner  
Production Scientist  
23 Jul 2019

*Michael Tonello*

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Michael Tonello  
Packaging Quality Control Inspector  
23 Jul 2019