

New England Biolabs Product Specification

Product Name: NEBNext[®] DNA Library Prep Master Mix Set for Illumina[®]
Catalog #: E6040S/L
Kit Components: NEBNext[®] End Repair Enzyme Mix (E6041)
NEBNext[®] End Repair Reaction Buffer (E6042)
Klenow Fragment (3'→ 5' exo⁻) (E6044)
NEBNext[®] dA-Tailing Reaction Buffer (E6045)
Quick T4 DNA Ligase (E6047)
NEBNext[®] Quick Ligation Reaction Buffer (E6048)
NEBNext[®] Q5[®] Hot Start HiFi PCR Master Mix (E6630)
Shelf Life: 18 months
Storage Temp: -20°C
Specification Version: PS-E6040S/L v1.0
Effective Date: 09 May 2018

Assay Name/Specification (minimum release criteria)

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.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext[®] DNA Library Prep Master Mix Set for Illumina[®] and meet the designated specifications.



Date 09 May 2018

Derek Robinson
Director of Quality Control

