

New England Biolabs Product Specification

Product Name: NEBNext[®] Ultra[™] II FS DNA Library Prep with Sample Purification Beads
Catalog #: E6177S/L
Kit Components: NEBNext[®] Ultra[™] II FS DNA Library Prep Kit for Illumina[®] (E7805) — Store at -20°C
NEBNext[®] Sample Purification Beads (E6178) — Store at 25°C
Shelf Life: 12 months
Storage Temp: Multi-temperature
Specification Version: PS-E6177S/L v1.0
Effective Date: 06 Jun 2019

Assay Name/Specification (minimum release criteria)

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.

Functional Testing (Purification Beads, DNA Library Prep) - The NEBNext Sample Purification Beads are used to construct DNA libraries using the related DNA workflow. The Sample Purification Beads are used for both size selection of adaptor ligated DNA and cleanup of the PCR reaction. The DNA libraries are run on an Agilent Bioanalyzer to ensure proper size distribution.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext[®] Ultra[™] II FS DNA Library Prep with Sample Purification Beads and meet the designated 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.



Date 06 Jun 2019

Derek Robinson
Quality Approver

