

New England Biolabs Product Specification

Product Name: NEBNext[®] Ultra[™] II FS DNA Library Prep Kit for Illumina[®]
Catalog #: E7805S/L
Kit Components: NEBNext[®] Ultra[™] II Q5[®] Master Mix (E7649)
NEBNext[®] Ultra[™] II Ligation Master Mix (E7648)
NEBNext[®] Ligation Enhancer (E7374)
NEBNext[®] Ultra[™] II FS Enzyme Mix (E7806)
NEBNext[®] Ultra[™] II FS Reaction Buffer (E7807)
TE Buffer (E7808)
Shelf Life: 12 months
Storage Temp: -20°C
Specification Version: PS-E7805S/L v1.0
Effective Date: 09 Aug 2017

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.

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

* The BSA in this product has been granted an EDQM "Certificate of Suitability" from the European Directorate for the Quality of Medicines (# R1-CEP-2003-204-Rev00) and has been granted a USDA Certificate for Export of Bovine Blood Plasma/Serum for Manufacture into Pharmaceutical Products.



Date 09 Aug 2017

Derek Robinson
Director of Quality Control

