

New England Biolabs Product Specification

Product Name: NEBNext UltraExpress™ FS DNA Library Prep Kit
Catalog #: E3340S/L/G
Kit Components: NEBNext UltraExpress™ FS Reaction Buffer (E3344)
NEBNext UltraExpress™ FS Enzyme Mix (E3343)
NEBNext UltraExpress™ Ligation Master Mix (E3345)
NEBNext® MSTC™ High Yield Master Mix (E3346)
NEBNext® Bead Reconstitution Buffer (E3348)
0.1 X TE (E3347)
Shelf Life: 12 months
Storage Temp: -20°C
Specification Version: PS-E3340S/L/G v1.0
Effective Date: 19 Dec 2023

Assay Name/Specification (minimum release criteria)

Functional Testing (Library Construction, UltraExpress FS 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. A fragmentation time of 20 minutes was used to generate a final average library size between 270 and 500 bp as determined by electrophoresis. 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 UltraExpress™ FS DNA Library Prep Kit and meet the designated specifications.

One or more products referenced in this document may be covered by a 3rd-party trademark.
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Date 19 Dec 2023

Lauren Brown
Quality Approver

