NEW ENGLAND BioLabs Inc.

240 County Road
Ipswich, MA 01938-2723

Tel 978-927-5054
Fax 978-921-1350

www.neb.com
info@neb.com

# New England Biolabs
# Certificate of Analysis

| | |
|---|---|
| *Product Name:* | *NEBNext® Ultra™ II FS DNA Library Prep Kit for Illumina®* |
| *Catalog #:* | *E7805S/L* |
| *Kit Components:* | *NEBNext® Ultra™ II Q5® Master Mix (E7649)*<br>*NEBNext® Ultra™ II Ligation Master Mix (E7648)*<br>*NEBNext® Ligation Enhancer (E7374)*<br>*NEBNext® Ultra™ II FS Enzyme Mix (E7806)*<br>*NEBNext® Ultra™ II FS Reaction Buffer (E7807)*<br>*TE Buffer (E7808)* |
| *Lot #:* | *0021712* |
| *Assay Date:* | *12/2017* |
| *Expiration Date:* | *12/2018* |
| *Storage Temp:* | *-20°C* |
| *Specification Version:* | *PS-E7805S/L v1.0* |
| *Effective Date:* | *23 Apr 2018* |

| **Assay Name/Specification** (minimum release criteria) | **Lot #0021712** |
|---|---|
| **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. | **Pass** |
| *** 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. | **Pass** |

* *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.*

Authorized by
Christine Sumner
23 Apr 2018

Inspected by
Christine Sumner
23 Apr 2018

nqa ISO 9001 Registered Quality Management
nqa ISO 14001 Registered Environmental Management
nqa ISO 13485 Registered Medical Devices