

New England Biolabs Product Specification

Product Name: NEBNext[®] Enzymatic 5hmC-seq Conversion Module
Catalog #: E3365S/L/G
Kit Components: Control DNA CpG unmethylated Lambda (E7123)
Control DNA 5hmC T4 (E3349)
NEBNext[®] Carrier DNA (E3351)
Elution Buffer (E7124)
NEBNext[®] Glucosylation Reaction Buffer (E3352)
UDP-Glucose (E3353)
T4-BGT (E3354)
Stop Reagent (E7132)
Deamination Reaction Buffer (E3356)
Recombinant Albumin (E3357)
APOBEC (E7133)

Shelf Life: 12 months
Storage Temp: -20°C
Specification Version: PS-E3365S/L/G v1.0
Effective Date: 17 Jan 2024

Assay Name/Specification (minimum release criteria)

Functional Testing (E5hmC-seq™ Library Construction) - Each set of reagents is functionally validated and compared to the previous lot through construction of libraries made from genomic DNA and DNA controls (5hmC T4 and unmethylated Lambda), that are required for assessment of 5hmC. The kit's minimum and maximum DNA input requirements are used to make libraries that are sequenced on the same Illumina[®] flow cell. Library assessment is based on metrics including library yields, GC bias, insert size, and the percent 5hmC detected for CpG, CHG, CHH contexts within the genomic DNA and internal controls.

* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext[®] Enzymatic 5hmC-seq Conversion Module 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 17 Jan 2024

Lauren Brown
Quality Approver

