

## New England Biolabs Product Specification

<i>Product Name:</i>	<i>NEBNext® Enzymatic Methyl-seq v2 Conversion Module</i>
<i>Catalog #:</i>	<i>E8020S/L/G</i>
<i>Kit Components:</i>	<i>Control DNA CpG methylated pUC19 (E7122)</i> <i>Control DNA Unmethylated Lambda (E7123)</i> <i>NEBNext® Carrier DNA (E3351)</i> <i>Elution Buffer (E7124)</i> <i>TET2 Reaction Buffer (E7126)</i> <i>TET2 Reaction Buffer Supplement (E8013)</i> <i>UDP-Glucose (E3353)</i> <i>DTT (E7139)</i> <i>T4-BGT (E3354)</i> <i>T4-BGT Diluent (E8014)</i> <i>TET2 (E7130)</i> <i>Fe (II) Solution (E7131)</i> <i>Stop Reagent (E7132)</i> <i>APOBEC (E7133)</i> <i>Deamination Reaction Buffer (E3356)</i> <i>Recombinant Albumin (E3357)</i>

<i>Shelf Life:</i>	<i>12 months</i>
<i>Storage Temp:</i>	<i>-20°C</i>
<i>Specification Version:</i>	<i>PS-E8020S/L/G v1.0</i>
<i>Effective Date:</i>	<i>04 Nov 2024</i>

### Assay Name/Specification (minimum release criteria)

**Functional Testing (EM-seq™ v2 Library Construction)** - Each set of reagents is functionally tested and compared to the previous lot through construction of libraries made from genomic DNA and DNA controls (CpG methylated pUC19 and unmethylated Lambda), that are required for assessment of 5mC and 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 5mC/5hmC detected for CpG, CHG, CHH contexts within the genomic DNA and internal controls.



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\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> Enzymatic Methyl-seq v2 Conversion Module 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 04 Nov 2024

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