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## New England Biolabs Product Specification

<i>Product Name:</i>	<i>NEBNext<sup>®</sup> Enzymatic Methyl-seq Kit</i>
<i>Catalog #:</i>	<i>E7120S</i>
<i>Kit Components:</i>	<i>Control DNA CpG Methylated pUC19 (E7122) — Store at -20°C</i> <i>Control DNA CpG Unmethylated Lambda (E7123) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Ultra<sup>™</sup> II End Prep Reaction Buffer (E7647) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Ultra<sup>™</sup> II End Prep Enzyme Mix (E7646) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Ultra<sup>™</sup> II Ligation Master Mix (E7648) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Ligation Enhancer (E7374) — Store at -20°C</i> <i>Elution Buffer (E7124) — Store at -20°C</i> <i>TET2 Reaction Buffer (E7126) — Store at -20°C</i> <i>TET2 Reaction Buffer Supplement (E7127) — Store at -20°C</i> <i>Oxidation Supplement (E7128) — Store at -20°C</i> <i>Oxidation Enhancer (E7129) — Store at -20°C</i> <i>TET2 (E7130) — Store at -20°C</i> <i>Fe (II) Solution (E7131) — Store at -20°C</i> <i>Stop Reagent (E7132) — Store at -20°C</i> <i>APOBEC (E7133) — Store at -20°C</i> <i>APOBEC Reaction Buffer (E7134) — Store at -20°C</i> <i>BSA (E7135) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Q5U Master Mix (E7136) — Store at -20°C</i> <i>NEBNext<sup>®</sup> Sample Purification Beads (E7137) — Store at 25°C</i> <i>EM-seq<sup>™</sup> Index Primer 1 (E7141) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 2 (E7142) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 3 (E7143) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 4 (E7144) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 5 (E7145) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 6 (E7146) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 7 (E7147) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 8 (E7148) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 9 (E7149) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 10 (E7150) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 11 (E7151) — Store at -20°C</i> <i>EM-seq<sup>™</sup> Index Primer 12 (E7152) — Store at -20°C</i>



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*EM-seq™ Index Primer 13 (E7153) — Store at -20°C*  
*EM-seq™ Index Primer 14 (E7154) — Store at -20°C*  
*EM-seq™ Index Primer 15 (E7155) — Store at -20°C*  
*EM-seq™ Index Primer 16 (E7156) — Store at -20°C*  
*EM-seq™ Index Primer 17 (E7157) — Store at -20°C*  
*EM-seq™ Index Primer 18 (E7158) — Store at -20°C*  
*EM-seq™ Index Primer 19 (E7159) — Store at -20°C*  
*EM-seq™ Index Primer 20 (E7160) — Store at -20°C*  
*EM-seq™ Index Primer 21 (E7161) — Store at -20°C*  
*EM-seq™ Index Primer 22 (E7162) — Store at -20°C*  
*EM-seq™ Index Primer 23 (E7163) — Store at -20°C*  
*EM-seq™ Index Primer 24 (E7164) — Store at -20°C*  
*NEBNext® EM-seq™ Adaptor (E7165) — Store at -20°C*

*Shelf Life:* 12 months  
*Storage Temp:* Multi-temperature  
*Specification Version:* PS-E7120S v1.0  
*Effective Date:* 21 Mar 2019

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

**Functional Testing (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 (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.

\* **Individual Product Component Note** - Standard Quality Control Tests are performed for each component included in NEBNext® Enzymatic Methyl-seq Kit and meet the designated specifications.



Date 21 Mar 2019

Derek Robinson  
Director of Quality Control

