

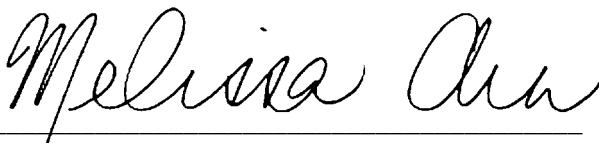
## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs)  
**Catalog Number:** E7140S  
**Packaging Lot Number:** 10053424  
**Expiration Date:** 09/2021  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E7140S v1.0

NEBNext® Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs) Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7165AVIAL	NEBNext® EM-seq™ Adaptor	10053452	Pass
E7164AVIAL	EM-seq™ Index Primer 24	10053451	Pass
E7163AVIAL	EM-seq™ Index Primer 23	10053450	Pass
E7162AVIAL	EM-seq™ Index Primer 22	10053449	Pass
E7161AVIAL	EM-seq™ Index Primer 21	10053448	Pass
E7160AVIAL	EM-seq™ Index Primer 20	10053447	Pass
E7159AVIAL	EM-seq™ Index Primer 19	10053446	Pass
E7158AVIAL	EM-seq™ Index Primer 18	10053444	Pass
E7157AVIAL	EM-seq™ Index Primer 17	10053442	Pass
E7156AVIAL	EM-seq™ Index Primer 16	10053441	Pass
E7155AVIAL	EM-seq™ Index Primer 15	10053440	Pass
E7154AVIAL	EM-seq™ Index Primer 14	10053439	Pass
E7153AVIAL	EM-seq™ Index Primer 13	10053438	Pass
E7152AVIAL	EM-seq™ Index Primer 12	10053437	Pass
E7151AVIAL	EM-seq™ Index Primer 11	10053435	Pass
E7150AVIAL	EM-seq™ Index Primer 10	10053434	Pass
E7149AVIAL	EM-seq™ Index Primer 9	10053433	Pass
E7148AVIAL	EM-seq™ Index Primer 8	10053432	Pass
E7147AVIAL	EM-seq™ Index Primer 7	10053431	Pass
E7146AVIAL	EM-seq™ Index Primer 6	10053430	Pass
E7145AVIAL	EM-seq™ Index Primer 5	10053429	Pass
E7144AVIAL	EM-seq™ Index Primer 4	10053428	Pass
E7143AVIAL	EM-seq™ Index Primer 3	10053427	Pass
E7142AVIAL	EM-seq™ Index Primer 2	10053426	Pass
E7141AVIAL	EM-seq™ Index Primer 1	10053425	Pass

Assay Name/Specification	Lot # 10053424
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in NEBNext® Multiplex Oligos for Enzymatic Methyl-seq (Unique Dual Index Primer Pairs) and meet the designated specifications.</p>	<b>Pass</b>
<p><b>Functional Testing (Library Construction)</b> 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.</p>	<b>Pass</b>

This product has been tested and shown to be in compliance with all specifications.



Melissa Arn  
Production Scientist  
22 Oct 2019



Michael Tonello  
Packaging Quality Control Inspector  
21 Feb 2020