

## New England Biolabs Certificate of Analysis

**Product Name:** NEBNext® Enzymatic Methyl-seq Conversion Module  
**Catalog Number:** E7125S  
**Packaging Lot Number:** 10278173  
**Expiration Date:** 11/2025  
**Storage Temperature:** -20°C  
**Specification Version:** PS-E7125S/L/G v2.0

NEBNext® Enzymatic Methyl-seq Conversion Module Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7139AAVIAL	DTT	10258965	Pass
E7135AVIAL	BSA	10258964	Pass
E7134AVIAL	APOBEC Reaction Buffer	10258963	Pass
E7133AVIAL	APOBEC	10258962	Pass
E7132AVIAL	Stop Reagent	10258960	Pass
E7131AVIAL	Fe (II) Solution	10258958	Pass
E7130AVIAL	TET2	10258956	Pass
E7129AVIAL	Oxidation Enhancer	10258954	Pass
E7128AVIAL	Oxidation Supplement	10258952	Pass
E7127AVIAL	TET2 Reaction Buffer Supplement	10258950	Pass
E7126AVIAL	TET2 Reaction Buffer	10258948	Pass
E7124AVIAL	Elution Buffer	10258946	Pass
E7123AVIAL	Control DNA unmethylated Lambda	10258944	Pass
E7122AVIAL	Control DNA CpG methylated pUC19	10258942	Pass

Assay Name/Specification	Lot # 10278173
<p><b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in NEBNext® Enzymatic Methyl-seq Conversion Module 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</p>	<b>Pass</b>

Assay Name/Specification	Lot # 10278173
5mC/5hmC detected for CpG, CHG, CHH contexts within the genomic DNA and internal controls.	

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

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Christine Sumner  
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13 Feb 2025



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Josh Hersey  
Packaging Quality Control Inspector  
13 Feb 2025