

## New England Biolabs Certificate of Analysis

Product Name: NEBNext<sup>®</sup> Enzymatic 5hmC-seq Conversion Module  
 Catalog Number: E3365G  
 Packaging Lot Number: 10222051  
 Expiration Date: 12/2024  
 Storage Temperature: -20°C  
 Specification Version: PS-E3365S/L/G v1.0

NEBNext <sup>®</sup> Enzymatic 5hmC-seq Conversion Module Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
E7133GVIAL	APOBEC	10222069	Pass
E7132GVIAL	Stop Reagent	10222066	Pass
E7124GVIAL	Elution Buffer	10222062	Pass
E7123GVIAL	Control DNA unmethylated Lambda	10222059	Pass
E3357GVIAL	Recombinant Albumin	10222068	Pass
E3356GVIAL	Deamination Reaction Buffer	10222067	Pass
E3353GVIAL	UDP-Glucose	10222064	Pass
E3352GVIAL	NEBNext <sup>®</sup> Glucosylation Reaction Buffer	10222063	Pass
E3351GVIAL	NEBNext <sup>®</sup> Carrier DNA	10222061	Pass
E3349GVIAL	Control DNA 5hmC T4	10222060	Pass

Assay Name/Specification	Lot # 10222051
<p><b>* Individual Product Component Note</b>            Standard Quality Control Tests are performed for each component included in NEBNext<sup>®</sup> Enzymatic 5hmC-seq Conversion Module and meet the designated specifications.</p> <p><b>Functional Testing (E5hmC-seq<sup>™</sup> 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 (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<sup>®</sup> 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.</p>	<p>Pass</p> <p>Pass</p>

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

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Christine Sumner  
Production Scientist  
30 Jan 2024



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Josh Hersey  
Packaging Quality Control Inspector  
02 Feb 2024