NEW ENGLAND BioLabs Inc.
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New England Biolabs
Certificate of Analysis

Product Name: *NEBNext® Enzymatic Methyl-seq Conversion Module*
Catalog Number: *E7125G*
Packaging Lot Number: *10106968*
Expiration Date: *10/2021*
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	10083269	**Pass**
E7135GVIAL	BSA	10083267	**Pass**
E7134GVIAL	APOBEC Reaction Buffer	10083266	**Pass**
E7133GVIAL	APOBEC	10083265	**Pass**
E7132GVIAL	Stop Reagent	10083264	**Pass**
E7131GVIAL	Fe (II) Solution	10083263	**Pass**
E7130GVIAL	TET2	10083262	**Pass**
E7129GVIAL	Oxidation Enhancer	10083261	**Pass**
E7128GVIAL	Oxidation Supplement	10083260	**Pass**
E7127AVIAL	TET2 Reaction Buffer Supplement	10083259	**Pass**
E7126GVIAL	TET2 Reaction Buffer	10083257	**Pass**
E7124GVIAL	Elution Buffer	10083253	**Pass**
E7123GVIAL	Control DNA unmethylated Lambda	10083251	**Pass**
E7122GVIAL	Control DNA CpG methylated pUC19	10083249	**Pass**

Assay Name/Specification	Lot # 10106968
*** Individual Product Component Note** Standard Quality Control Tests are performed for each component included in NEBNext® Enzymatic Methyl-seq Conversion Module and meet the designated specifications.	**Pass**
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	**Pass**

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Assay Name/Specification	Lot # 10106968
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.

One or more products referenced in this document may be covered by a 3rd-party trademark. Please visit www.neb.com/trademarks for additional information.

Christine Sumner
Production Scientist
12 Apr 2021

Michael Tonello
Packaging Quality Control Inspector
12 Apr 2021