

## New England Biolabs Certificate of Analysis

**Product Name:** *EpiMark® 5-hmC and 5-mC Analysis Kit*  
**Catalog Number:** *E3317S*  
**Lot Number:** *10050494*  
**Expiration Date:** *03/2021*  
**Storage Temperature:** *-20°C*  
**Specification Version:** *PS-E3317S v1.0*

EpiMark® 5-hmC and 5-mC Analysis Kit Component List			
NEB Part Number	Component Description	Lot Number	Individual QC Result
S2200SVIAL	Uridine Diphosphate Glucose, 2 mM	10046690	Pass
S0540AVIAL	Control DNA Primer Mix	10050507	Pass
R0171AVIAL	HpaII	10050501	Pass
R0106AVIAL	MspI	10050500	Pass
P8107AVIAL	Proteinase K, Molecular Biology Grade	10037452	Pass
N0482AVIAL	hmC Control DNA	10050504	Pass
N0481AVIAL	mC Control DNA	10050503	Pass
N0480AVIAL	Unmodified Control DNA	10050502	Pass
M0357AVIAL	T4 Phage β-glucosyltransferase (T4-BGT)	10050499	Pass
B7004SVIAL	NEBuffer™ 4	10043904	Pass

Assay Name/Specification	Lot # 10050494
<b>Functional Testing (EpiMark® 5-hmC and 5-mC Analysis Kit)</b> Unmodified Control DNA was treated with T4-BGT and UDP-Glucose to convert 5-hmC to 5-ghmC and digested with either MspI or HpaII as described in the manual. HpaII cleavage is blocked by 5-mC, 5-hmC and 5-ghmC resulting in a PCR product that confirms the presence of both 5-mC and 5-hmC. MspI cleavage is blocked only by 5-ghmC resulting in PCR product that confirms the presence of 5-hmC.	Pass
<b>* Individual Product Component Note</b> Standard Quality Control Tests are performed for each component included in EpiMark® 5-hmC and 5-mC Analysis Kit and meet the designated specifications.	Pass

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



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Jessica Cane  
Production Scientist  
22 Mar 2019



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Michael Tonello  
Packaging Quality Control Inspector  
19 Aug 2019