

New England Biolabs Certificate of Analysis

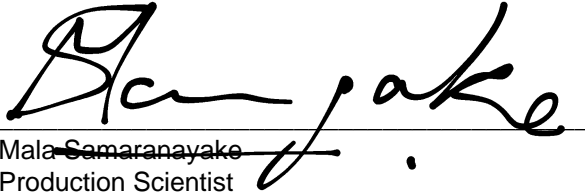
Product Name: *EpiMark® 5-hmC and 5-mC Analysis Kit*
 Catalog Number: *E3317S*
 Packaging Lot Number: *10104965*
 Expiration Date: *04/2023*
 Storage Temperature: *-20°C*
 Specification Version: *PS-E3317S v1.0*

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	10104962	Pass
S0540AVIAL	Control DNA Primer Mix	10104961	Pass
R0171AVIAL	HpaII	10104955	Pass
R0106AVIAL	MspI	10104960	Pass
P8107AVIAL	Proteinase K, Molecular Biology Grade	10107676	Pass
N0482AVIAL	hmC Control DNA	10104959	Pass
N0481AVIAL	mC Control DNA	10104958	Pass
N0480AVIAL	Unmodified Control DNA	10104957	Pass
M0357AVIAL	T4 Phage β -glucosyltransferase (T4-BGT)	10104956	Pass
B7004SVIAL	NEBuffer™ 4	10101326	Pass

Assay Name/Specification	Lot # 10104965
<p>* Individual Product Component Note Standard Quality Control Tests are performed for each component included in EpiMark® 5-hmC and 5-mC Analysis Kit and meet the designated specifications.</p>	Pass
<p>Functional Testing (EpiMark® 5-hmC and 5-mC Analysis Kit) 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.</p>	Pass

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.



Mala Samaranayake
Production Scientist
29 Apr 2021



Michael Tonello
Packaging Quality Control Inspector
29 Apr 2021