

New England Biolabs Certificate of Analysis

Product Name: EpiMark[®] 5-hmC and 5-mC Analysis Kit
Catalog #: E3317S
Kit Components: NEBuffer[™] 4 (B7004)
 T4 Phage β -glucosyltransferase (T4-BGT) (M0357)
 Unmodified Control DNA (N0480)
 mC Control DNA (N0481)
 hmC Control DNA (N0482)
 Control DNA Primer Mix (S0540)
 Proteinase K, Molecular Biology Grade (P8107)
 MspI (R0106)
 HpaII (R0171)
 Uridine Diphosphate Glucose, 2 mM (S2200)

Lot #: 0021802
Assay Date: 02/2018
Expiration Date: 02/2020
Storage Temp: -20°C
Specification Version: PS-E3317S v1.0
Effective Date: 16 Oct 2018

Assay Name/Specification (minimum release criteria)	Lot #0021802
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.	Pass
* 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.	Pass



Authorized by
Derek Robinson
16 Oct 2018



Inspected by
Mala Samaranayake
22 Feb 2018

