

New England Biolabs Product Specification

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)

Shelf Life: 24 months
Storage Temp: -20°C
Specification Version: PS-E3317S v1.0
Effective Date: 15 Oct 2018

Assay Name/Specification (minimum release criteria)

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.

* **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.



Date 15 Oct 2018

Derek Robinson
Director of Quality Control

