Methylated cytosine DNA standard kit

Cat. No. GTX400004

Applications Dot

References (1)
Package
1 kit

PRODUCT

Content

Content	Package	Storage
Cytosine DNA Standard	2 µg	4°C or below
5-Methylcytosine DNA Standard	2 µg	4°C or below
5-Hydroxymethylcytosine DNA Standard	2 µg	4°C or below
5-Formylcytosine DNA Standard	2 µg	4°C or below
5-Carboxylcytosine DNA Standard	2 µg	4°C or below

For full product information, images and publications, please visit our website.

GeneTex, Inc. (North America)
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Summary

The Methylated cytosine DNA standard kit is a set of five DNA standards that are linear dsDNA, 426 bp, and have the same sequence (see sequence below & figure). The only difference is that each contains either normal cytosines, 5-methylcytosines, 5-hydroxymethylcytosines, 5-formylcytosines, or 5-carboxylcytosines. Since the sequence and extent of cytosine modification is known, this DNA standard set is ideal for use in calibration of various applications intended for quantitation of cytosine modifications.
Sequence Information:
5'CGGGGTACCTTCACTTCAGAATCAACCAAACAGCCAAAACTGTTACATCAGGTTGTGGA
GCAGTTACAAAAGGTTCATTTTATCACAGATACCCTGTCAAAGGGTGAGACAAAGTTCATG
GGTGTTTGCCAGCTTCCCAGTAAAAATGATGAAAAAGAATATCCACACAGAAGAATTGATA
TCAGGTTGATACCCAAAGATCAGTATTACTGTGGTGTTCTCTATTTCACTGGGAGTGATAT
TTTCAATAAGAATATGAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGTACACC
ATCCGTCCCTTGGGAGTCACTGGAGTTGCAGGAGAACCCCTGCCAGTGGATAGTGAAAAA
GACATCTTTGATTACATCCAGTGGAAATACCGGGAACCCAAGGACCGGAGCGAAGAATTC CCG 3'
Note: Sequence is same for all five standards. Depending on the DNA, all C's are unmodified cytosine, 5-methylcytosine, 5-hydroxymethylcytosine, 5-formylcytosine, or 5-carboxylcytosine.

Sequence statistics:

Nucleotide	Count	Frequency (%)
Adenine (A)	138	32.4 %
Thymine (T)	103	24.2 %
Cytosine (C)	88	20.7 %
Guanine (G)	97	22.8 %
C+G	185	43.4 %
A+T	241	56.6 %

Applications

Application Note

*Optimal dilutions/concentrations should be determined by the researcher.

Suggested dilution	Recommended dilution
Dot	Assay dependent

Not tested in other applications.

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