

# 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](#).

Date 2025 / 09 / 04 Page 1 of 2

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'CGGGGTACCTTCACCTCAGAATCAACCAACAGCCAAACTGTTACATCAGGTTGTGGA  
GCAGTTACAAAAGGTTTCATTTATCACAGATACCCTGTCAAAGGGTGAGACAAAGTTCATG  
GGTGTTCGCCAGCTCCAGTAAAAATGATGAAAAAGAATATCCACACAGAAGAATTGATA  
TCAGGTTGATACCCAAAGATCAGTATTACTGTGGTGTCTCTATTTCACTGGGAGTGATAT  
TTTCAATAAGAATATGAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGTACACC  
ATCCGTCCCTGGGAGTCACTGGAGTTGCAGGAGAACCCCTGCCAGTGGATAGTGAAAAA  
GACATCTTTGATTACATCCAGTGGAAATACCGGGAACCAAGGACCGGAGCGAAGAATTC 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:

### Summary

| 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.



For full product information, images and publications, please visit our [website](#).