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Produktinformation



Forschungsprodukte & Biochemikalien



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Diagnostik & molekulare Diagnostik



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See the following pages for more information!



Lieferung & Zahlungsart

siehe unsere [Liefer- und Versandbedingungen](#)

Zuschläge

- Mindermengenzuschlag
- Trockeneiszuschlag
- Gefahrgutzuschlag
- Expressversand

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Methylated cytosine DNA standard kit

Cat No. GTX400004

Application Dot

Package
1 kit

PRODUCT

| | Content | Package | Conc. | Storage |
|----------------|--------------------------------------|---------|----------|---------|
| Content | Cytosine DNA Standard | 2 µg | 50 ng/µl | -20 °C |
| | 5-Methylcytosine DNA Standard | 2 µg | 50 ng/µl | -20 °C |
| | 5-Hydroxymethylcytosine DNA Standard | 2 µg | 50 ng/µl | -20 °C |
| | 5-Formylcytosine DNA Standard | 2 µg | 50 ng/µl | -20 °C |
| | 5-Carboxylcytosine DNA Standard | 2 µg | 50 ng/µl | -20 °C |



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

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'CGGGGTACCTTCACTTCAGAATCAACCAAACAGCCAAAACACTGTTACATCAGGTTGTGGA
GCAGTTACAAAAGGTTTCATTTTATCACAGATACCCTGTCAAAGGGTGAGACAAAGTTCATG
GGTGTGGCCAGCTCCCAGTAAAAATGATGAAAAAGAATATCCACACAGAAGAATTGATA
TCAGGTTGATACCCAAAGATCAGTATTACTGTGGTGTCTCTATTTCACTGGGAGTGATAT
TTTCAATAAGAATATGAGGGCTCATGCCCTAGAAAAGGGTTTCACAATCAATGAGTACACC
ATCCGTCCTTGGGAGTCACTGGAGTTGCAGGAGAACCCTGCCAGTGGATAGTGAAAAA
GACATCTTTGATTACATCCAGTGGAATACCGGGAACCCAAGGACCGGAGCGAAGAATTC 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:

Product Description

| 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 % |

APPLICATION

Application Note

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

Suggested dilution

Dilution

Dot Assay dependent

Not tested in other applications.



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