

EzWay™ DNA Methylation Detection Kit

Easy and Quick detection of DNA methylation

SPECIFICATION

The detection of methylation in CpG island of genomic DNA is one of the most important fields in epigenetic studies. Koma introduces a new EzWay™ DNA methylation detection kit that converts unmethylated cytosine into uracil and leaves methylated cytosine as it is by Na-bisulfite.

EzWay™ DNA methylation detection kit is ready to use kit including DNA extraction kit, DNA binding and elution buffer, Na-bisulfite. The advantages of this kit lies in very high recovery rate that comes from the proprietary binding and elution buffer for Na-bisulfite treated DNA.

- Straightforward, consistent way to convert unmethylated cytosine residues into uracil
- High recovery rate of modified DNA sample using optimized DNA Binding Buffer is supplied
- Sufficient volume of DNA Binding Buffer is supplied
- Fast and Easy procedure for CpG methylation analysis
- DNA Purification Kit is included
- A control primer is supplied for confirmation of DNA modification

Applications

MSP (Methylation specific PCR)
Methylation detection using DNA chip
COBRA (combined bisulfite restriction assay)
Methylate and Bisulfite sequencing etc.

KIT CONTENTS

C/U Conversion Reagent I
C/U Conversion Reagent II
D Reagent
DNA binding Buffer
DNA desalting Buffer
Neutralization Buffer
Elution Buffer
DNA Prep Columns
Collection Tubes
Control primer

PROTOCOL

Sample gDNA : 5'-CATG**C**GGT**C**GAC**C**GT-3'

STEP 1 Sodium Bisulfite Treatment Modification







After Bisulfite treatment, all unmethylated Cytosine (C) is changed to Uracil (U).



STEP 2 MSP with Unmethyl (U) & Methyl (M) primer

U Primer : 3'-ATAC**A**CC**A**CT**A**CA-5'
M Primer : 3'-ATAC**G**CC**A**GCT**G**CA-5'

STEP 3 Gel electrophoresis and Analysis

| Primer | U | M | U | M | U | M |
|--------|---|---|---|---|---|--|
| |  |  |  |  |  |  |
| | PCR Product | No Band | No Band | PCR Product | PCR Product | PCR Product |
| | Complete unmethylated sample | | Complete methylated sample | | Mixture of unmethylated and methylated sample | |

ORDERING INFORMATION

| Cat. No. | Product | Size |
|----------|--------------------------------------|------------|
| K03710 | EzWay™ DNA Methylation Detection Kit | 20reaction |
| K03720 | EzWay™ DNA Methylation Detection Kit | 50reaction |

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