

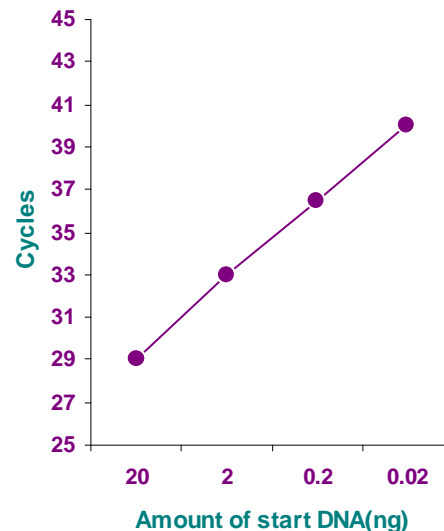
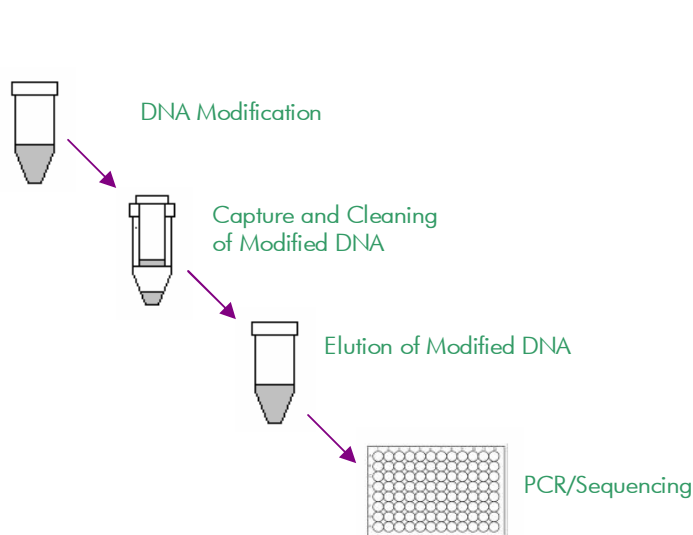
Methylamp™ DNA Modification Kits

Aberrant DNA methylation is mainly found in 5'-CpG-3' dinucleotides within promoters or in the first exon of genes, which is an important pathway for the repression of gene transcription in diseased cells. It is well demonstrated that DNA methylation plays an important role in the regulation of gene expression, tumorigenesis, and other genetic and epigenetic diseases. Thus, detection of methylation in some genes of diseased cells could provide very useful information for discrimination of this disease. There have been many methods for the detection of DNA methylation. All of these methods require a bisulfite-based DNA modification before starting methylation assays such as MSP, sequencing, restriction analysis, and others. The bisulfite-based DNA modification is used to discriminate between cytosine and methylated cytosine, in which DNA is treated with bisulfite salt to convert cytosine residues to uracil in a single-stranded DNA, while methylated cytosine remains same.

Epigentek, Inc currently offers innovative DNA modification products - the *Methylamp™* DNA Modification Kits. These kits are designed using our proprietary technology and have a unique procedure and composition to modify DNA efficiently.

Features:

- The fastest procedure available (2-2.5 h)
- Completely converts unmethylated cytosine into uracil: modified DNA > 99.98%
- The lowest degradation of DNA in the modification process: more than 90% of DNA loss can be prevented.
- The lowest requirement of starting DNA for modification: only 50 pg or 20 cells.
- Simple, reliable, and consistent modification conditions.



Real-time PCR amplification of human β -actin gene (methylated and un-methylated) after DNA modification.

Ordering Information

Products	Cat #	Size
<i>Methylamp</i> TM DNA Modification Kit (40 samples)	P-1001-1	1 kit
<i>Methylamp</i> TM DNA Modification Kit (80 samples)	P-1001-2	1 kit
<i>Methylamp</i> TM Coupled DNA Isolation and Modification Kit (40 samples)	P-1002-1	1 kit
<i>Methylamp</i> TM One-Step DNA Modification Kit (40 samples)	P-1010-1	1 kit
<i>Methylamp</i> TM One-Step DNA Modification Kit (80 samples)	P-1010-2	1 kit