

Reliably analyze DNA methylation patterns every time

MethylCode™ Bisulfite Conversion Kit and Service

- Consistent, reproducible results
- High-yield DNA recovery following bisulfite treatment
- Fast, easy protocol converts DNA in less than 3 hours

A faster way to consistent DNA methylation data

The ability to quantify and detect DNA methylation efficiently and accurately has become essential for the study of cancer, gene expression, and genetic diseases, as well as many other important aspects of biology. The bisulfite method is the most commonly used technique and consists of treating DNA with bisulfite, which causes unmethylated cytosines to be converted into uracils while methylated cytosines remain unchanged. The MethylCode™ Bisulfite Conversion Kit builds on this principle (Figure 1) and offers a faster way to obtain more consistent DNA methylation data by:

- Integrating the DNA denaturation and bisulfite conversion processes into one convenient step
- Eliminating cumbersome DNA precipitation steps with an innovative in-column desulfonation technology
- Minimizing template degradation and loss of DNA during treatment and clean-up
- Providing complete conversion of unmethylated cytosines

Recovered DNA is ideal for PCR amplification for downstream analyses, including restriction endonuclease digestion, sequencing, microarrays, and real-time PCR.

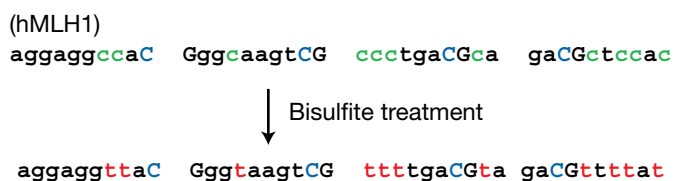


Figure 1—Principle behind the MethylCode™ Bisulfite Conversion Kit. DNA sequencing results before and after bisulfite conversion with the MethylCode™ Bisulfite Conversion Kit reveal that methylated DNA (blue) remains intact while unmethylated cytosines (green) are completely converted to uracils and detected as thymines (red) following PCR.





DNA Methylation

Let Invitrogen Custom Services do the work for you

Don't have the time or resources to analyze DNA methylation patterns? Invitrogen's expert scientists can perform the MethylCode™ bisulfite conversion experiments followed by DNA sequencing reactions to analyze DNA methylation patterns for you. Just send us your samples and we'll send you the data.

Ordering information

Product	Quantity	Cat. no.
MethylCode™ Bisulfite Conversion Kit	50 rxns	MECOV-50
MethylCode™ Bisulfite Conversion Service	N/A	MECOV-SVC

To learn more about the MethylCode™ Bisulfite Conversion Kit or the MethylCode™ Bisulfite Conversion Service, visit www.invitrogen.com/methylcode.



www.invitrogen.com