

CpGenome™ Turbo Bisulfite Modification Kit

From input sample to modified DNA in 90 minutes!

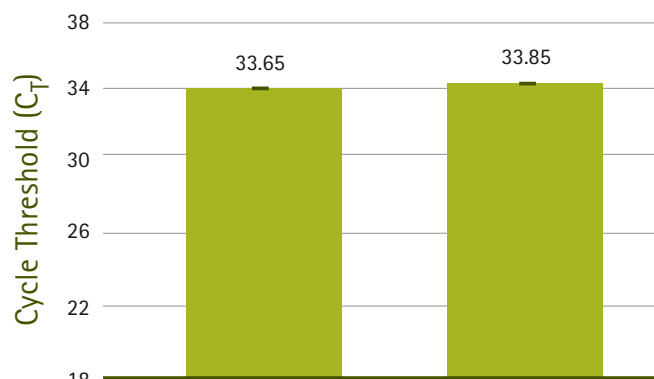
Speed Up DNA Methylation Mapping

Save time without compromising performance with the fastest bisulfite modification kit available. The CpGenome™ Turbo bisulfite modification kits provide modified DNA ready for downstream analysis in at least half the time of other commercially available bisulfite modification kits.

Bisulfite Modification Kit Advantages:

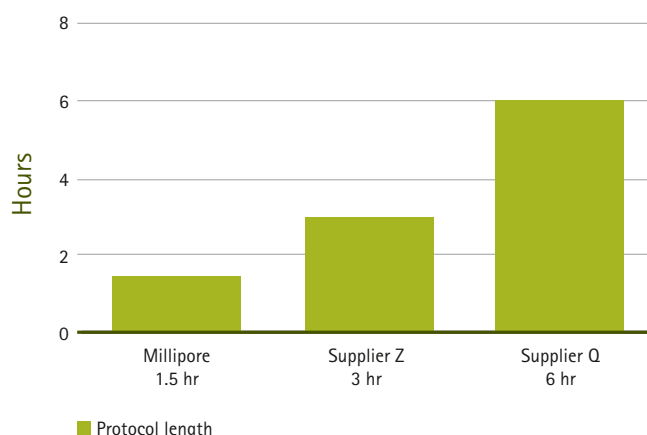
- Simple, 90-minute protocol
- Conversion efficiencies of 99.9% without over-conversion
- Accommodates a range of input sample amounts from 1 ng to 1 µg
- Recover modified DNA in as little as 25 µl final volume
- Proven performance in multiple downstream applications

Speed without Compromising Performance or Sensitivity!



Excellent performance, twice as fast! 1 ng of genomic DNA (Cat No. S7821) was bisulfite converted using the CpGenome™ Turbo bisulfite modification kit or a kit from Supplier Z. Conversion was evaluated by quantitative PCR using the CpG Wiz® MGMT methylated primer set (Cat. No. S7803). Conversions using the CpGenome™ Turbo kit were achieved in half the time required for Supplier Z.

Fast Bisulfite Protocol



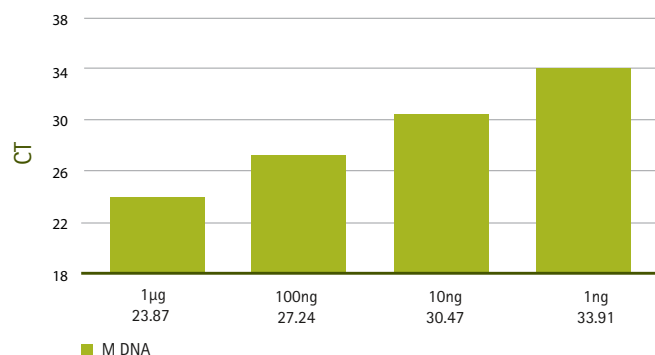
Fastest Protocol Among Leading Suppliers. Comparison of time required for CpGenome™ Turbo bisulfite modification kit protocol versus bisulfite kit protocols from other major suppliers.

Optimized Reagents for Effective Bisulfite Conversion

The CpGenome™ Turbo bisulfite modification kit includes all of the key reagents required for the conversion of unmethylated cytosines to uracil.

- Proprietary mixture of conversion reagents enables rapid conversion
- Optimized protocol enables virtually complete conversion of input samples while minimizing DNA damage
- Spin column-based desulfonation and isolation procedure promotes efficient recovery of modified DNA ready for downstream analysis

Reliable Performance Across a Range of Input Sample Amounts



Sensitive and Reliable Bisulfite Conversion from 1 ng to 1 µg. Methylated DNA (Cat. No. S7821) was bisulfite treated as described in the CpGenome Turbo modification kit protocol and eluted in 50 µL (1 µg and 100 ng samples) or in 25 µL (10 ng and 1 ng samples). Conversion was evaluated by quantitative PCR using the CpG Wiz MGMT methylated primer set (Cat. No. S7803).

To Place an Order or Receive Technical Assistance

In the U.S. and Canada, call toll-free

1-800-645-5476

For other countries across Europe and the world, please visit:

www.millipore.com/offices

For Technical Service, please visit:

www.millipore.com/techservice

Order online: www.millipore.com



Rapid, Efficient, and Specific Bisulfite Conversion Without Over-Conversion

GGTGCGCACC GTTTGCGAC TTGGTGAGTGTCTGGGT

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-----T - T - TC -----C -- T ----- T -----
-----T - T - TC -----C -- T ----- T -----
-----T - T - TC -----C -- T ----- T -----
-----T - T - TC -----C -- T ----- T -----
-----T - T - TC -----C -- T ----- T -----

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Complete conversion of unmethylated cytosines without conversion of methylated cytosines. Methylated DNA containing methylated CpG cytosines (blue) and non-CpG cytosines (green) was bisulfite converted using the CpGenome™ Turbo bisulfite modification kit. Using MGMT methylation-specific primers from the CpG Wiz® MGMT primer set (Cat. No. S7803), amplicons for DNA sequencing were generated. Alignments of the resulting sequences are shown below. In all clones examined, unmethylated cytosines were completely converted while methylated cytosines were unconverted.

Ordering Information

Description	Quantity	Catalogue No.
CpGenome™ Turbo Bisulfite Modification Kit	50 reactions	S7847
Accessory Products		
CpGenome™ Universal Methylated DNA	10 µg	S7821
CpGenome™ Universal Unmethylated DNA	10 µg	S7822
CpG Wiz® MGMT Amplification Kit*	25 assays	S7803
CpG Wiz® p16 Amplification Kit*	25 assays	S7800

For additional gene-specific CpG Wiz® methylation-specific PCR assay kits, visit www.millipore.com/epigenetics

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